

RECORD OF PROCEEDINGS
OF THE
BOARD OF TRUSTEES
OF THE
OHIO STATE UNIVERSITY

COLUMBUS

July 1, 1988 to June 30, 1989

VOLUME 1

1988-1989

THE OHIO STATE UNIVERSITY

Edward H. Jennings, President

BOARD OF TRUSTEES

	<u>Term Beginning</u>	<u>Term Expiring</u>
Leonard J. Immke, Columbus	May 14, 1980	May 13, 1989
John W. Berry, Dayton	May 14, 1981	May 13, 1990
Shirley D. Bowser, Williamsport	May 14, 1982	May 13, 1991
Hamilton J. Teaford, Columbus	May 14, 1983	May 13, 1992
John J. Barone, Toledo	May 14, 1984	May 13, 1993
Deborah E. Casto, Columbus	May 14, 1985	May 13, 1994
John W. Kessler, Columbus	May 14, 1986	May 13, 1995
Milton A. Wolf, Cleveland	May 14, 1987	May 13, 1996
Leslie H. Wexner, Columbus	May 14, 1988	May 13, 1997
Laurel A. Davis,* Tipp City	February 6, 1989	May 13, 1990
Sophia L. Paige,* Columbus	February 6, 1989 May 14, 1989	May 13, 1989 May 13, 1991

* Student Trustee -- non voting.

OFFICERS

Leonard J. Immke, Chairman
John W. Berry, Vice Chairman
Madison H. Scott, Secretary
James L. Nichols, Treasurer

THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FORTY-THIRD MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, July 8, 1988

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.
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July 8, 1988 meeting, Board of Trustees

The Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on July 8, 1988, at 9:45 a.m.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, John J. Barone, John W. Kessler, and Milton A. Wolf.

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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 Buker, 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 --

July 8, 1988 meeting, Board of Trustees

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.

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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.

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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.

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July 8, 1988 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY

Resolution No. 89-3

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.

July 8, 1988 meeting, Board of Trustees

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.

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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

July 8, 1988 meeting, Board of Trustees

AMENDMENTS TO THE UNIVERSITY HOSPITALS BOARD BYLAWS (contd)

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.

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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.

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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

July 8, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointments (contd)

Name: DONALD HARRIS
Title: Dean/Professor
College/School: Arts/Music
Effective: September 1, 1988
Salary: \$96,000.00
Present Position: Dean, Hartt School of Music, University of Hartford,
West Hartford, CT

Name: RICHARD M. HILL
Title: Dean/Professor
College: Optometry
Effective: July 1, 1988
Salary: \$92,640.00
Present Position: Associate Dean and Professor, College of Optometry

Name: BOBBY D. MOSER
Title: Director/Associate Dean/Professor
Office/College/ Department: Cooperative Extension Service/Agriculture/Animal
Science
Effective: July 1, 1988
Salary: \$92,040.00
Present Position: Associate Dean of Agriculture and Director of
Agriculture Extension Programs, University of
Missouri, Columbia, MO

Name: ROBERT STEARNS
Title: Director/Associate Dean/Adjunct Professor
Center/College/ Department: Wexner Center for the Visual Arts/The Arts -
Administration/Art
Effective: October 1, 1988
Salary: \$92,040.00
Present Position: Director, Performing Arts, Walker Art Center,
Minneapolis, Minnesota

Name: JOSEPH R. DRAGO
Title: Professor (The Louis Levy Professorship for
Cancer)
College/Department: Medicine - Administration/Surgery
Effective: June 1, 1988
Salary: \$59,880.00
Present Position: Director/Professor, Department of Surgery -
Division of Urology

Change in Title

Name: ROBERT L. ARNOLD
Title: Associate Dean
College: The Arts - Administration
Effective: September 1, 1988
Salary: N/A
Present Position: Acting Dean, College of The Arts

July 8, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointment of Chairpersons of Academic Faculty and Departments

July 1, 1988 through June 30, 1989

Family Medicine	Patrick J. Fahey*
Preventive Medicine	Douglas A. Rund*

July 1, 1988 through June 30, 1992

Ophthalmology	Paul A. Weber
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October 1, 1988 through September 30, 1992

Academic Faculty of Marketing	James L. Ginter
Classics	Jane M. Snyder

*Acting Chair

Reappointments of Chairpersons of Departments and Directors of Centers

October 1, 1987 through September 30, 1991

Center for Comparative Studies	Marilyn R. Waldman
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July 1, 1988 through June 30, 1989

Physical Medicine	Ernest W. Johnson
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July 1, 1988 through June 30, 1992

Internal Medicine	Ernest L. Mazzaferri
Otolaryngology	David E. Schuller
Pathology	Donald A. Senhauser

October 1, 1988 through September 30, 1992

Anthropology	Chung-Min Chen
Center for Medieval and Renaissance Studies	Christian K. Zacher
Economics	Edward J. Ray
Family and Community	Grayce M. Sills
Philosophy	Marshall W. Swain

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.

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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.

July 8, 1988 meeting, Board of Trustees

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.

July 8, 1988 meeting, Board of Trustees

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 unflinching 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.

July 8, 1988 meeting, Board of Trustees

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.

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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

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	98	\$8,460,088.69
Engineering Experiment Station	37	\$ 329,774.00
Total	135	\$8,789,862.69

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

July 8, 1988 meeting, Board of Trustees

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - May 1988

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)

\$231,297.87 - Department of Agriculture, Science and Education, Peoria, Illinois, Cooperative Agricultural Research, Office of the Director - OARDC (H. R. Conrad), 1 October 1986 through 30 September 1987. (Project 766472 - New)

\$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)

\$151,686.00 - Department of Energy, Argonne, Illinois, The Hydrogen Induced Stress Corrosion Cracking of Nickel Base Alloys in High Temperature Water, Department of Metallurgical Engineering (P. G. Shewmon and S. S. Smialowska), 1 June 1988 through 31 May 1989. (Project 766068 - 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 Archaeobacterium, 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)

\$130,592.00 - Department of Education, Washington, D.C., "Seeing-Is-Believing," Department of Pharmacology (P. B. Hollander), 1 May 1988 through 30 June 1989. (Project 766745 - New)

\$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)

\$101,963.00 - National Science Foundation, Washington, D.C., An Integrated Petrographic, Chemical, and Isotopic Study of the Diagenesis of Carbonate Sediments in the Deep Sea, Department of Geology and Mineralogy (E. Barrera), 15 April 1988 through 30 September 1990. (Project 766715 - New)

\$98,665.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Gastric

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)

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)

\$61,112.00 - 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. (Project 765363 - Continuation)

\$60,965.00 - 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 1988 through 31 March 1989. (Project 766695 - New)

\$57,884.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Low Frequency Radar Cross Section Studies of Cylinders Attached to a Ground Plane, Department of Electrical Engineering, ElectroScience Laboratory (E. K. Walton and E. H. Newman), 1 May 1988 through 31 October 1988. (Project 765216 - Continuation)

\$51,459.00 - 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. (Project 766765 - New)

\$50,000.00 - 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. (Project 766388 - Continuation)

\$49,960.00 - 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. (Project 766261 - Continuation)

\$40,000.00 - National Science Foundation, Washington, D.C., Automatic Light Scattering Goniometer 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. (Project 766739 - New)

\$36,000.00 - 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. (Project 766747 - Continuation)

\$34,842.00 - 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. (Project 766732 - 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)

\$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 Biostratigraphy 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. Burghelca), 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 Hydantoin 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 Transantarctica 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)

\$20,000.00 - E. R. Squibb & Sons, Princeton, New Jersey, Comparison of Aztreonam Versus Aztreonam and an Aminoglycoside in the Treatment of Gram-Negative Bacillary Pneumonia, Department of Internal Medicine (J. F. Plouffe), 3 May 1988 through 2 May 1989. (Project 766763 - New)

\$20,000.00 - Exxon Company, International, Houston, Texas, Estimation of High Precision Anomaly Fields from Satellite Altimeter Data, Department of Geodetic Science and Surveying (R. H. Rapp), 2 May 1988 through 28 February 1989. (Project 766751 - New)

\$16,875.00 - University Otolaryngology Head and Neck Surgery, Inc., Pittsburgh, Pennsylvania, Perioperative Clindamycin Versus Cefazolin During High Risk Head and Neck Surgery, Department of Otolaryngology (D. E. Schuller), 1 December 1986 through 31 December 1989. (Project 766733 - New)

\$15,292.00 - Honda of America Manufacturing, Inc., Marysville, Ohio, System and Job Analysis -- Five Positions, College of Education - Administration (J. J. Buffer), 3 February 1988 through 30 June 1988. (Project 766730 - New)

\$14,237.00 - Motorola, Inc., Schaumburg, Illinois, Development of a Strategic Performance Improvement Planning Process, The National Center for Research in Vocational Education (R. D. Ryan), 15 April 1988 through 30 June 1988. (Project 766740 - New)

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)

\$13,580.00 - Arundale, Inc., Fenton, Missouri, An Evaluation of Polyurethane Sheet Plastic for Greenhouse Glazings and Jet Fan Circulation Tubes, Department of Agricultural Engineering - OARDC (T. H. Short), 1 May 1988 through 30 April 1989. (Project 766712 - 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 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), 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)

\$33,334.00 - Klingenstein Fund, New York, New York, Klingenstein Fellowship in Neuroscience, Oral Biology (W. E. Thomas), 1 July 1988 through 30 June 1989. (Project 766717 - New)

\$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 1988 through 30 June 1989. (Project 766742 - New)

\$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. McClenahan), 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 Rowers, 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)

\$3,800.00 - National Institute for Dispute Resolution, Washington, D.C., The Dispute Resolution Bibliography Project, College of Law (A. Holoch), 1 May 1988 through 31 August 1989. (Project 766755 - 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)

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)

\$1,500.00 - Ohio Pork Producers Council, Westerville, Ohio, An Evaluation of Procedures for Early Breeding of Gilts, Department of Animal Science - OARDC and Cooperative Extension State Operations (G. A. Isler), 28 October 1987 through 27 October 1988. (Project 766721 - New)

\$1,417.00 - March of Dimes Birth Defects Foundation, White Plains, New York, A Mammalian Estrogenicity Testing System for Polyhalogenated Hydrocarbons: Genetic Toxicological Testing for Potentially Estrogenic Substances, Department of Dairy Science - OARDC (C. P. Hodgson and L. B. Willett), 1 December 1987 through 31 December 1988. (Project 765117 - Continuation)

\$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)

\$24,557.00 - IBM Technical Interchange Program, Owego, NY, "Integrating Component Accultulation and Material Flow to Promote the Efficiency of Assembly Operations," Department of Industrial and Systems Engineering, 1 May 1988 through 31 December 1988. (529756)

\$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

July 8, 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)

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.

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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.

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**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

Date Received:	May 3, 1988
No. of Bids:	8
Low Bid:	\$2,867,850.00*
High Bid:	\$3,040,500.00*
Estimate of Cost:	\$2,997,250.00*
Awarded to:	Cleveland Construction, Mentor, OH

Plumbing Contract

Date Received:	May 3, 1988
No. of Bids:	3
Low Bid:	\$ 245,899.00*
High Bid:	\$ 274,500.00*
Estimate of Cost:	\$ 305,300.00*
Awarded to:	J. A. Croson Inc., Columbus, OH

HVAC Contract

Date Received:	May 3, 1988
No. of Bids:	3
Low Bid:	\$ 640,475.00*

*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)

High Bid:	\$ 687,400.00*
Estimate of Cost:	\$ 734,550.00*
Awarded to:	Limbach Co., Columbus, OH

Electric Contract

Date Received:	May 3, 1988
No. of Bids:	4
Low Bid:	\$ 733,557.00*
High Bid:	\$ 820,301.00*
Estimate of Cost:	\$ 898,900.00*
Awarded to:	Buckeye Electric Co., Dayton, OH

Total All Contracts: \$4,487,781.00*

Previously Bid and Awarded
Demolition, Asbestos
Abatement, Equipment \$ 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

Date Received:	May 24, 1988
No. of Bids:	4
Low Bid:	\$ 427,000.00*
High Bid:	\$ 482,585.00*
Estimate of Cost:	\$ 496,400.00*
Awarded to:	Concept Construction Co., Columbus, OH

Plumbing Contract

Date Received:	May 24, 1988
No. of Bids:	2
Low Bid:	\$ 43,899.00
High Bid:	\$ 46,900.00
Estimate of Cost:	\$ 48,670.00
Awarded to:	J. A. Croson Co., Columbus, OH

HVAC Contract

Date Received:	May 24, 1988
No. of Bids:	6
Low Bid:	\$1,174,025.00*
High Bid:	\$1,517,108.00*
Estimate of Cost:	\$1,645,060.00*
Awarded to:	Bruner Corp., Columbus, OH

Electric Contract

Date Received:	May 24, 1988
No. of Bids:	3
Low Bid:	\$ 312,560.00

*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.

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) (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 begin 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.

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**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.

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**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.

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**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 "Scarlata & 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.

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**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.

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**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.

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**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

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**EASEMENT
OHIO BELL TELEPHONE COMPANY (contd)**

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.

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**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:

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**EASEMENT
OHIO BELL TELEPHONE COMPANY (contd)**

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.

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**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.

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

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

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MODIFICATION OF THE PERS EARLY RETIREMENT INCENTIVE PROGRAM (contd)

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.

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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.

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Dr. Hollander: (contd)

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

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Dr. Capriotti: (contd)

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.

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Dr. Capriotti: (contd)

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.

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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

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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

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Dr. Capriotti: (contd)

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.

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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

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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

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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.

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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.

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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.

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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
Secretary

Leonard J. Immke
Chairman

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APPENDIX I
Degrees Conferred at
THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION
September 1, 1988

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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 post-graduate 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. Koenigsnecht

Doctor of Musical Arts

So-Ham Kim Chung, Seoul, South Korea; B.A. (Seoul National University); M.Mus.; Music

Dr. Jerry E. Lowder, Dr. Sylwia Zaremba

Neal Wesley Yocum, 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 Ozguner

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. Jogikal M. Jagadeesh

Dee Thad Allsop, Annandale, VA; B.A. (Brigham 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; B.A., A.M. (University of Missouri at Columbia); Theatre

Dr. George Crepeau

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

Dr. Robert B. Donmoyer

Martin Lee Appleton, Portsmouth; B.S.; Biochemistry

Dr. Edward Behrman

Angel Rene Arcelay, 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

Ahilleas Bardos, Argos Oresticon, 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. Prabhakar H. Pathak

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

Dr. Hooshang Hemami

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

Dr. Frank R. Silbajoris

Deborah Ann Hopkins Boone, Greenwich; 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. Newcomb

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

Dr. Joan Gritzmacher

Mark Henry Brand, Storrs, 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 Ritzman

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, Canal Winchester; B.S.Ed., M.A.; Education

Dr. Alan Osborne

Michael Lynn Burgess, Columbus; Education

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. Cano, Mesilla, NM; B.S., M.A. (New Mexico State University);

Agricultural Education

Dr. L. H. Newcomb

James Dave Cauley, Columbus; B.S.Ed.,

M.A.; Education

Dr. Robert Bargar

Sung-Sook Chang, South Korea; B.A. (Song Shim 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 Leurgans

Jung Il Cho, Seoul, South Korea; B.S., M.A. (Seoul National University);

Education

Dr. Robert W. Howe

Jean Soo Chung, Seoul, South Korea; B.Sc., 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 Efland

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. (Bates College); Medical Microbiology and Immunology

Dr. J. D. Pollack

- Denise Ann Dunn**, Pensacola, FL; B.S. (Wayne State University); M.A. (University of West Florida); *Education*
Dr. *Marlin Languis*
- William Joseph Eckmayer**, Dublin; B.A. (California State College at Fullerton); M.A. (California State University at Long Beach); M.S.; *Zoology*
Dr. *F. Joseph Margraf*
- Laertis Economikos**, Columbus; B.S. (University of Thessaloniki); M.S.; *Chemical Engineering*
Dr. *Jacques L. Zakin*, Dr. *Robert S. Brodkey*
- John Ferrell Elliot**, Cheney, WA; B.S., M.A. (Washington State University); *Agricultural Education*
Dr. *J. David McCracken*
- Mark Christopher Ely**, Columbus; B.Mus.Ed.; M.M. (Western Michigan University); *Music*
Dr. *Jere L. Forsythe*
- Kim Victoria England**, Columbus; B.A. (University of Leicester); *Geography*
Dr. *Kevin R. Cox*
- Joseph Robert Fiedler**, Kettering; A.B. (Harvard University); M.S.; *Mathematics*
Dr. *John Philip Hunek*
- Robert I. Fisher**, Berea; B.A. (Baldwin-Wallace College); M.A. (Kent State University); *Health, Physical Education and Recreation*
Dr. *Robert Kaplan*
- Stuart Alan Foster**, Pittsburgh, PA; B.A. (West Virginia University); M.A.; *Geography*
Dr. *Emilio Casetti*
- Brian Lee Frappier**, Clio, MI; B.S., D.V.M. (Michigan State University); *Veterinary Anatomy*
Dr. *Bettina Anderson*
- Mabel Gilbert Freeman**, Columbus; B.S.Ed., M.A.; *Education*
Dr. *Robert Silverman*
- Wayne Gearheart**, Allen, KY; B.S., M.S. (University of Kentucky); *Animal Science*
Dr. *Michael E. Davis*
- Ronald Gilliam Geason**, Milwaukee, WI; B.S. (Valparaiso University); M.P.P. (University of Michigan); *Public Administration*
Dr. *Frederick D. Stocker*
- Gary Wayne Gerhard**, Lincoln, NE; B.S. (University of Arizona); M.A. (New Mexico State University); *Agricultural Education*
Dr. *Keith L. Smith*
- Dorothy Kohl Gifford**, Columbus; A.B. (Bucknell University); M.A. (University of New Hampshire); *Education*
Dr. *James V. Wigtl*
- Jacob Sean Glower**, Columbus; B.S.E.E., M.S.; *Electrical Engineering*
Dr. *Robert Fenton*
- John Paul Golben**, St. Paul, MN; B.S. (University of Minnesota); M.S.; *Physics*
Dr. *James Gaines*
- David Joseph Goldhamer**, Cleveland; B.S. (Purdue University); *Zoology*
Dr. *Roy Tassava*
- Prabha Shankar Gopinath**, Bombay, India; B.E., M.S. (University of Baroda); M.S.; *Computer and Information Science*
Dr. *Karsten Schwan*
- Abdul Hameed**, Lahore, Pakistan; B.A., M.A. (University of the Punjab); *Education*
Dr. *E. Keith Blankenbaker*
- Snirley Ann Hamilton**, Columbus; B.S., M.A.; *Education*
Dr. *Donald Cruickshank*
- JoAnn Hammadou**, Columbus; B.A. (American University); M.A. (University of New Hampshire); *Education*
Dr. *Elizabeth B. Bernhardt*, Dr. *Gilbert A. Jarvis*
- Catherine Patricia Hanley**, Fort Collins, CO; B.A. (State University of New York at Albany); M.A.; *Psychology*
Dr. *W. B. Walsh*
- Fumiko Kamiya Harada**, Japan; B.A. (International Christian University); M.A.; *Education*
Dr. *Gilbert A. Jarvis*
- Emily Ann Harbold**, Williamsburg, VA; B.S. (East Tennessee State University); M.A. (University of North Carolina at Greensboro); *Education*
Dr. *John Dares*
- Winston Neely Harless**, Henderson, TN; B.A. (David Lipscomb College); M.A. (Memphis State University); *Theatre*
Dr. *Donald R. Glancy*
- Robert Scott Hayward**, Merrimack, NH; B.S. (Cornell University); M.S. (Tennessee Technological University); *Zoology*
Dr. *F. Joseph Margraf*
- Ruth Ann Hendrickson**, Montgomery, WV; B.A., M.A. (Marshall University); *English*
Dr. *John B. Gabel*
- Kathryn G. Herr**, Quarryville, PA; B.S. (Millersville University); M.S.W. (Fordham University); *Social Work*
Dr. *Joseph J. Parnicky*
- Lisa Tandy Herren**, Beaver Creek; B.S., M.A.; *Psychology*
Dr. *Thomas M. Ostrom*
- Susan Bette Hersh**, Columbus; B.S.Ed.; M.S.Ed. (University of Dayton); *Education*
Dr. *John O. Cooper*
- Bernie R. Hershberger**, Somerville, MA; Z.A. (Goshen College); M.A.; *Psychology*
Dr. *W. Bruce Walsh*
- Darrell Linn Hischke**, Columbus; B.S. (Iowa State University); M.A.; *Psychology*
Dr. *Theodore J. Kaul*
- Michael Alan Hoggarth**, Columbus; B.S. (Seattle Pacific University); M.S. (The University of North Alabama); *Zoology*
Dr. *David Stansbery*
- Soonjo Hong**, Seoul, South Korea; B.E., M.E. (Hanyang University); M.S.; *Civil Engineering*
Dr. *Ranbir S. Sandhu*
- Mingzen Huang**, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); M.S. (University of Rhode Island); *Mechanical Engineering*
Dr. *Kenneth J. Waldron*
- Randy Edward Hunt**, Canton; B.S., M.S. (Kent State University); *Entomology*
Dr. *Lowell R. Nault*
- David Wesley Husman**, Columbus; B.S.; *OSU Biochemistry Program*
Dr. *Robert M. Mayer*
- Yie Shing Hwang**, Taipei, Taiwan, R.O.C.; B.S. (National Tsing Hua University); *Metallurgical Engineering*
Dr. *Robert A. Rapp*
- Enrique Barbieri Iannucci**, Caracas, Venezuela; B.S.E.E., M.S.; *Electrical Engineering*
Dr. *Umit Ozguner*
- Altug Iftar**, Turkey; B.S. (Bogazici University); M.S.; *Electrical Engineering*
Dr. *Umit Ozguner*
- Daniel Jean Jacques**, Chicopee, MA; B.S. (University of Massachusetts); M.S. (University of Maryland); *Horticulture*
Dr. *John Peterson*, Dr. *Ralph Boerner*
- William Frederick Jaynes**, Slaton, TX; B.S., M.S. (Texas Tech University); *Agronomy*
Dr. *Jerry M. Bigham*
- Linda Kay Johnsrud**, Gambier; B.S. (University of Wisconsin at Madison); M.S. (Western Illinois Personnel University); *Education*
Dr. *Mary Ann Sagaria*
- William Gerald Jolliff**, Magnetic Springs; B.S. (Central Michigan University); M.A. (Ashland Theological Seminary); M.A.; *English*
Dr. *Anthony Libby*
- Philip Jacques Joseph**, Bellingham, MA; B.S.E.E. (University of Lowell); M.S.E.E. (Air Force Institute of Technology); *Electrical Engineering*
Dr. *Walter Burnside*
- Samir V. Kamat**, Bombay, India; B.Tech.(Hons) (Indian Institute of Technology); M.S.; *Metallurgical Engineering*
Dr. *John Hirth*

- 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); M.S.; *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
- Farshad Khorrami**, Iran; B.S., B.S.E.E., M.S.; *Electrical Engineering*
Dr. Umit Ozguner
- Jong-Seon Kim**, South Korea; B.A. (Yonsei University); *Economics*
Dr. Hajime Miyazaki
- Mi Sook Kim**, Seoul, South Korea; B.S. (Kyung Hee University); M.S.; *Home Economics*
Dr. Loren V. Geistfeld
- Sook Young Kim**, Seoul, South Korea; B.S., M.S. (Yonsei University); *Home Economics*
Dr. Virginia M. Vivian
- 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 Haeefe
- 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. (West 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
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- Kathleen Allyson Kirby**, Shaker Heights; B.A. (University of Michigan); *Education*
- Beth Ann Klingler**, Columbus; B.S.Ed.; *Education*
- Bruce Ray Knost**, Worthington; B.S.Ed.; *Education*
- Regina Marie Koehler**, Columbus; B.A. (Xavier University); *Journalism*
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- Susan Marie Lane**, Worthington; B.M. (Capital University); *Music*
- Maria Alice Laning**, McLean, VA; B.A. (University of Virginia); *History*
- Teresa Ann Lawver**, Gahanna; B.S.Ed.; *Education*
- John Stephen Lay**, Fairbanks, AK; B.A. (Trinity University); *Journalism*
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- Rosemary Myers Lehner**, Worthington; B.S.; *Education*
- Wendy Baldwin Leitch**, Reynoldsburg; B.S.Ed.; *Education*
- Barbara Jean Lemerich**, Worthington; B.S. (Bucknell University); *Education*
- Gregory Alan Levitt**, Columbus; B.A. (Capital University); *Education*
- Lea Marie Lewis**, Somerset; B.S.; *Education*
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- Susan Marie Littleton**, Columbus; B.S. (Miami University); *Education*
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- Agnes Frances Loula**, Dublin; B.A. (Madonna College); *Education*
- Murray McIntosh Low**, North Kessock, Scotland; B.A. (University of Cambridge); *Geography*
- Veronica Magee**, Columbus; B.A. (Dillard University); *Education*
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- Art Rocell Malloy**, Dunn, NC; B.A. (Shaw University); *Black Studies*
- Thomas Albert Mannarino**, Worthington; B.S.Bus.Ad.; *Education*
- Sandra Lea Mathewson**, Spencer, WV; B.A. (Tennessee Temple University); *Education*

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- Joanne Zuidervliet McCarter**, Lexington; B.S.Ed.; *Education*
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- Cathy Lin McGee**, Pickerington; B.S.Ed.; *Education*
- Marc Alan McGee**, Pickerington; B.S.; *Health, Physical Education and Recreation*
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- Joan Marzluf Meehan**, Columbus; B.S. (Ohio Dominican College); *Education*
- Barbara Justine Meininger**, Columbus; B.A. (Western Michigan University); *Education*
- Kimberly Gay Mendini**, Cincinnati; B.A.; *English*
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- John J. Miller**, Columbus; B.S.Ind.Des.; *Art Education*
- Miriam Louise Miller**, Smithville; B.A. (Goshen College); *Education*
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- Sean Michael Reardon**, Columbus; B.A.; *Education*
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- Tamara Lynn Robinson**, Bucyrus; B.S.Ed. (Kent State University); *Education*
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- Judy Kari Virgalitte**, Worthington; B.S. (Miami University); *Education*
- Julie Anne Vondrell**, Lima; B.A.; *Education*
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- Jane L. Warne**, Columbus; B.A. (Miami University); *Education*
- Teresa Jane Watkins**, Sunbury; B.S. (Bowling Green State University); *Education*
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- 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 Wensinger**, Marion; B.S.Ed.; *Education*
- Conrad Wesselhoeft**, 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 Lynn Whipple**, Bridgewater, NJ; B.A. (Oberlin College); *Psychology*
- Linda Sue White**, Worthington; B.A.; *Education*
- Susan Roberta 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**, Hertford, 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**, Tainan, Taiwan, R.O.C.; B.A. (Chinese Culture University); *Education*
- Deborah Richards Yontz**, Columbus; B.A. (Ohio Northern University); *Education*
- Tanya Lennite Young**, Gary, IN; B.A. (Indiana University at Bloomington); *Education*
- Bessie 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*

Zacher 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 Hiun Lie, Indonesia; B.S.Bus.Adm.; *Business Administration*

Yingling 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 Ashrafi, 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*

Ismail Bin Sulong, Malaysia; B.A.(Hons) (University of Malaya); *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 Sandkühler, 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

Kecia Renee Chasteen, Covington; B.S.Soc.Wel.; *Labor and Human Resources*

Melanie L. Diggs, Columbus; B.A. (Capital University); *Labor and Human Resources*

John Francis Haumesser, 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*

Master of Liberal Studies

Jennifer Lynn Dowling, Gahanna; B.A.; *Liberal Studies*

Master of Public Administration

Kerry Jay Adkins, Columbus; B.A. (Ohio Northern University); *Public Administration*

Kecia Renee Chasteen, Covington; B.S.Soc.Wel.; *Public Administration*

Moon-Sung Hwang, Seoul, South Korea; B.A., M.P.A. (Seoul National University); *Public Administration*

Michael Alan O'Reilly, Sidney; B.A. (Ohio University); *Public Administration*

Prusanee Silapaphan, Thailand; B.A. (Chulalongkorn University); *Public Administration*

Deborah Jo Snead, Columbus; B.A.; *Public Administration*

Master of Science

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- Shyue Fang Hsu**, Taipei, Taiwan, R.O.C.; B.S. (Kaohsiung Medical College); *Pharmacy*

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- Timothy Duane Woodward**, Fletcher; B.S.Agr., D.V.M.; *Animal Science*
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- 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. (Shaanxi 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.Sc. (Case Western Reserve University); *Pharmacy*

Master of Social Work

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- 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

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College of Humanities
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College of Social and Behavioral Sciences

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Christopher Vincent DiSalvo, Fairview
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Bachelor of Arts

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Jean Elizabeth Less, Canfield
Beth Anne Lister, Worthington
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Jacqueline Renée Luskic, Dayton
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Robert Graham MacQueen, Columbus
John William Maiden, Delaware
David Patrick Manion, Columbus
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Craig Anthony Martin, Cleveland Heights
Patrick Justin McCarthy, Youngstown
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Bachelor of Science

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Mary Elizabeth Rooney, Wooster
Scott Craig Stallkamp, Lima
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Todd Marshall Boyer, Columbus
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Paula Mary Cherivassi, Reynoldsburg
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Margaret Leigh Curran, Columbus
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 Kelley Anne Griffith, Van Buren
 Ann Marie Harcsa, Gahanna
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 Joni Lynn Herrmann, Lebanon
 Christine Marie Hibler, Brecksville
 Christopher Allen Howell, Columbus
 Melinda Ann Hungler, Columbus
 Kay Lynne Kilanowicz, Columbus
 Martha Jane Koloski, Columbus
 Lisa E. Lambert, Mt. Vernon
 Stuart Jay Lederer, Belimore, NY
 Sheila Kay Lillegren, Springfield, OR
 Vivica Lynn Lundblad, Wadsworth
 David G. Lutz, Reynoldsburg
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 Eileen Malone, Avon Lake
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 Jennifer Lyn Onesto, Columbus
 Tina Marie Picone, Solon
 Michelle Lynn Raines, Willoughby Hills
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 William Austin Gault, Ashland
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Marla Sue Mines, Beavercreek
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 Karl Daniel Roell, Cleves
 Robert Doyle Scott, Bloomingdale
 Susan Marie Specht, Dalton
 Curtis Edward Stearns, Columbus
 Jonathan Joel Stoutenburg, Westerville
 Jeffrey Alan Trautwein, Upper Sandusky
 Chris Duane Turner, Harrod
 Peggy Sue Vaughn, Newark
 Madonna Jo Woebkenberg, Lebanon
 Nanette Louise Wolcott, Perrysville
 Lance Paul Yost, Columbus

Bachelor of Science in Food Science

Yoshiro Lozano, Brooklyn
 Lisa Marie Sabol, Rochester Hills, MI

Bachelor of Science in Nutrition

Donna Marie Dougher, Mentor

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 Gerald Lee Fetter, Jr., Copley, PA
 Todd Allen Hunt, Mansfield
 Douglas Alan Jeanneret, Wapakoneta
 Douglas Duane Jenkins, Newark
 David H. McKay, Westerville
 Timothy Michael Metzger, Delphos
 John Patrick Tholen, Northport, NY

Agricultural Technical Institute – Wooster

Associate in Applied Science

Randall Keith Agler, Ohio City
 Renee Denise Balderson, Columbus
 Susan Marie Casceday, Akron
 Darla Maureen Cornell, Toledo
 Georgia Theresa Enright, Englishtown, NJ
 Janelle Ann Firestone, Lima
 Leslie Ann Guess, Toledo
 Barbara Jo Haddad, Toledo
 Linda Rose Jensen, Wooster
 Bryan Scott Miller, Greensburg
 Diane Marie Rossmann, 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
 Arslan Anwar, Lahore, Pakistan
 Robert Harry Back, Noblesville, IN
 James Robert Balk, Columbus
 Karen Elizabeth Balser, Newbury
 Stacey Barr, Troy
 Paul Gerard Bartels, Cincinnati
 Saleh M. Basamh, Taif, Saudi Arabia
 Darrin Todd Bean, Westerville
 Patti Sue Beckett, Ottawa
 Cynthia A. Berelsman, Delphos
 Mark Andrew Berens, Columbus
 John Joseph Bertone, Painesville
 James Thomas Bogden, Reynoldsburg
 James Joseph Bolger, Steubenville
 Renee Leigh Brausch, Medina
 Denise Marie Brennan, Islip, NY
 James Wesley Bridges, Silver Spring, MD
 Donald Eugene Brooker, Champion
 Robert Lawrence Brown, Columbus
 Daniel Kenneth Brunswick, Coldwater
 Keith Edward Budzynski, Toledo
 Richard Michael Bump, Cleveland
 Robert Todd Buran, Fairborn
 Jeanette M. Burkart, Beaumont, TX
 Richard Lee Bussert, Carroll
 Cathy Sue Camper, Lima
 Kelly Sue Carr, Kokomo, IN
 Julie M. Carson, Massillon
 Kuang-ling Chang, Columbus
 Varun 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 Demboski, Suffolk
 Deni Dewi, Medan, Indonesia
 Randy Lee DeWitt, Delaware
 Yvonne Mileusnich Dickmann, Columbus
 Cynthia Lynelle Doll, Columbus
 Nimesh Navinchandra Doshi, Ipoh, Perak Malaysia
 Lori Lee Doty, Spencerville
 Tracy Lee Douds, Toronto
 Wayne Bryant Douglas, Columbus
 Marjorie Phillis Duncan, Grove City
 Jeffrey John Dunning, North Olmsted
 Steven Harold Earley, Avon Lake
 Shelley Sue Eaton, Grove City
 Joseph Engelhart, St. Marys

Brian William Evak, Pickerington
 E. Howard Evans, Dunkirk
 Douglas Michael Faist, Columbus
 James Robert Farmer, Dublin
 Amy Sayles Field, Chagrin Falls
 David Charles Flood, Toronto
 Michael Vincent Foley, Youngstown
 Jody Lynn Gahman, Worthington
 Teresa Marie Galioto, Cincinnati
 Toni Gallow, Columbus
 John Patrick Garverick, Mentor
 Steven Edward Gay, Willoughby
 Joseph Koch George, Worthington
 Michael Lewis Gerlaugh, Tipp City
 Linda Marie Gibson, Cincinnati
 Michelle Noel Girgis, Columbus
 Mark A. Girman, Stow
 Michael Ross Gladman, Upper Arlington
 Jacquelyn P. Goeckel, Defiance
 Craig A. Greene, Hilliard
 Michael Scott Gregg, Fairview Park
 Laura L. Griesenbrock, Grove City
 Dominique K. Grimm, Canfield
 Matthew Scott Gruenbaum, Marysville
 Michael David Guarasci, Columbus
 Ralph Edward Gustin, Falls Church, VA
 Jill Elizabeth Hegenbarth,
 Wilmington, DE
 Charles Adam Heider, Columbus
 Terri Ann Herring, Lima
 Jill Ann Hindman, Strongsville
 David Estes Hipps, Westerville
 Mark John Hofer, Homeworth
 Daniel R. Hooley, Hillsboro
 Clark M. Houle, Stamford, CT
 Rhonda A. Householder, Westerville
 Stephen Lavon Howard, Columbus
 Jeffrey Alan Huffman, Westerville
 John Roger Hutchinson, Jr., Dublin
 Deborah Lynne Iacobucci, Tallmadge
 John Curtis Jackson, Jr., Dayton
 Michael David Jaffee, Columbus
 Leslie Anne Javaras, Strongsville
 Lisa Lynn Jeffries, Circleville
 Gregory Lewis Jones, Terrace Park
 Denise Marie Joss, Mentor
 T. Juengsangunpornskul, Bangkok,
 Thailand
 Judith Gaitten Kaiser, Columbus
 George N. Kalec II, New Philadelphia
 Bradley David Kay, Columbus
 Kristin L. Key, Grove City
 Angela Prewitt Kilbourne, Bexley
 James Robert Klinebriel, Utica
 Jill Ann Knickerbocker, Beaver Creek
 Judith Lyn Komaromi, Jackson
 Lisa Marie Koterba, Eastlake
 Kenneth Charles Krause, Independence
 Bradley Steven Krumm, Richmond
 Heights
 Tracy Lackey, Cincinnati
 Steven Charles Lautenslager, Mason
 Michael Thomas Lawler, North Royalton
 Vincent Paul LeBer, Columbus
 Jill Ann Lee, Marion
 Judy Lee, Brooklyn
 John A. Leibold, LaRue
 Mui Huat Lim, Singapore, Singapore
 Harry J. Lisle, Avon Lake

Wayne Judson Lloyd, Worthington
 Norman Lo, Hong Kong
 Lukman Hadiwidjaja Luis, Bandung,
 Jabar, Indonesia
 Suzanne Theresa MacKanos, Marion
 Sheila K. Maher, Mansfield
 Michael Ray Mahon, Sunbury
 Mitchell Sean Marcus, Highland Park, IL
 Joseph Marelli, Jr., Avon Lake
 Wendy Kay Marker, New Lebanon
 Vicki L. Marsh, Medina
 Frances Alberta Martoglio, Bay Village
 Natee Masathivong, Bangkok, Thailand
 Jennifer Allynn Mauersberg, Cortland
 Eric C. McCaslin, Lima
 Darryl McCrary, Maple Heights
 Jeffrey Lee McCullough, Sidney
 Kevin Wayne McHolland, Reynoldsburg
 Kelly Lynn McMullen, Akron
 James John McNulty, Mentor
 Robert Owen McSheffery, Upper
 Arlington
 John Michael McWilliams, North Olmsted
 Christine Ann Mersnik, Cleveland
 Mark Stephen Messner, Orange Village
 Debbie L. Midkiff, Pickerington
 Philip Byrd Milburn, Columbus
 Douglas Alan Milhoan, Canton
 Lona Lee Millar, Westerville
 David Christian Miller, Cleveland
 David Michael Miller, Newark
 Kelley Leigh Miller, Newark
 Lance R. Miller, Upper Arlington
 David J. Mittelkamp, Lima
 Edward Killian Moeller III, Dover
 Amie Dryden Mogen, Dublin
 John Derek Moore, Gallipolis
 Shawn Arnold Moorman, Lima
 Kevin S. Morris, Dayton
 Roger Paul Mortensen, Columbus
 Christine Clara Musacchio, Strongsville
 Deidre J. Myers, North Canton
 Kenneth Alan Neal, Cincinnati
 Lorraine Kathleen Negrelli, Kettering
 Brent Alan Niswander, Findlay
 Teresa D. Nolte, Grove City
 James Matthew Nugent, Reynoldsburg
 Robert Thomas O'Neal, Sylvania
 Andrew James Ohler, Marysville
 Kathleen Gross Ouzts, Erie, PA
 Beth Louise Paparodis, Salem
 Tracy Elaine Passmore, Columbus
 Tanya Doreen Pavick, North Royalton
 Leonard Scott Pepper, Strongsville
 Clinton Shane Pelfrey, Avon
 David A. Petrill, Delaware
 Dirk Aaron Pica, Bellaire
 Steven D. Pigman, Norwalk
 Yew Thong Poh, Malacca, Malaysia
 Paul Edward Potts, West Jefferson
 Bryan Karl Prosek, Warsaw
 Natalija Prtenjak, Hinckley
 John Charles Rau, Middletown
 Nicholas Martin-John Ray, Sylvania
 Cynthia Lynn Reese, Champion
 Gary Beth Rejent, Columbus
 Mili Rhee, Columbus
 Feriial F. Riashi, Zanesville
 Daniel John Richardson, Cincinnati

Victoria Klosek Rine, Dublin
 Rino Romeo, Lorain
 Patricia Lynn Romie, Centerville
 Edythe Larrie Ross, Gahanna
 Mark Aaron Rubeck, Newark
 Alan John Ruda, Lima
 Steven Michael Ryan, Springfield
 David Lee Rybinski, Columbus
 Taposhi Samanta, Worthington
 Michael Alan Schaublin, Lima
 Glen R. Scheckelhoff, Ottawa
 Joseph Barry Schwartz, Toledo
 Tina Sue Scott, Ashland
 Annette Seda, Lorain
 Tracy Sue Shultz, Findlay
 Ann Louise Silleck, Delaware
 Denise Marie Skeels, Jefferson
 Brian David Slesnick, Canton
 Gerald Andrew Slezak, Jr., Bedford
 Bryan David Smilges, Dublin
 Denise Ann Smith, Vaughnsville
 Rick Alan Smith, Troy
 Thomas Ross Smith, Eaton
 Walter Perry Smith, Columbus
 Terry Allyn Snoddy, Wooster
 Jeffrey William Snyder, Canton
 Timothy Scott Snyder, Reynoldsburg
 Roberto Solano, Gahanna
 Kathleen Ann Stepp, Lenexa, KS
 Dianna Kay Steurer, Marion
 William Ross Stover, Greenville
 Donald Gene Strinka, Amherst
 Eugene J. Strojny, Columbus
 Anna Marie Huling Sturtz, Clinton, IA
 Molly Ann Sullivan, Columbus
 Michael Kent Sutton, Amherst
 Alan Gregory Swierz, Zanesville
 Yin Fen Tan, Kuala Lumpur, Malaysia
 John A. Tanner, Columbus
 Charles Bradford Tarr, Columbus
 Kevin M. Taylor, North Olmsted
 Hak Seng Teo, Singapore, Singapore
 Stephen Lawrence Tepper, Beachwood
 Laura Ann Tersigni, Greensburg
 Roger E. Tharp, Alexandria
 Robert Matthew Thatcher, Batavia
 Daniel Alfred Thomas, Youngstown
 Dale Lewis Thompson, Columbus
 John P. Traini, Columbus
 Daren Richard Tucker, Pontiac, MI
 Lyle Edward Turner, Westfield
 Valerie K. Vance, Mingo Junction
 Arthur Thomas Vargas, Willard
 David James Vargo, Marietta
 Ann Marie Vinson, Parma
 Deborah Sue Voorhis, Sunbury
 Jeffrey Alan Waibel, Columbus
 Alan James Walker, Columbus
 Jacqueline Sarita Ware, Oberlin
 Charles Patrick Weed, Logan
 Mark A. Welch, Barnesville
 Steven Todd Wenzel, Mentor
 Bryan Joseph Westbrock, Kettering
 Lisa Anne Wheeler, Akron
 Antonia Charlton White, Dayton
 Robert Lee Williams, Columbus
 Michele Willingham, Hubbard
 David Brent Wilson, Columbus
 Catherine E. Wolf, Groveport

John R. Woods, Mentor
Barry Jon Yaillen, Columbus
Robin Lynnette Yost, 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 Barrett, Rossford
Susan Marie Biedenbarn, Elida
Christine Ann Binder, Alexandria, VA
Alexander Charles Bisca, Columbus
Karen Lynn Bishop, Lima
Michelle Bochar, Chillicothe
Lynne Katherine Bonno, Warren
Dwight L. Briner, Circleville
Cesar Federico Chaves, Lorain
Mark Daniel Coleman, Fremont
Eugene Paul Cordonnier, Russia
Christine Ann Darfus, Lancaster
Steve F. Davey, Marion
Pamela Maria Depaso, Columbus
Marcia Anne Dillinger, Ottawa
Elaine Marie Dunn, New Philadelphia
Jeffrey Thomas Eckley, Kettering
Kelly Anne Egan, Mt. Liberty
Elaine Nancy Farstad, Columbus
Susan Elizabeth Figetakis, Akron
Alan Edward Frank, Bexley
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
Teresa Ann Heiberthausen, 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
Lori Beth Keck, Toledo
Melanie Jean Kindell, Kenton
Polly Alice Larkin, Kettering
James Victor Leavitt, Jr., Thornville
Patrice Anne Leimbach, Lima
Kathleen Anne Lorz, Brunswick
Jill Christine Lynch, Lancaster
Melissa Marie MacDonald, Spencerville
Christine Marie Mayhan, Westford, MA
Michael James McAdams, Columbus
Rhonda Richelle McGuire, Columbus
Kristina Frances McKee, Columbus
Leslie Ann Merz, Nashport
Paula Leslie Metzger, Fort Jennings

Tina Renee Michael, Fremont
Roscoe William Mickle, Jr., Cincinnati
Kevin Douglas Miller, Bexley
Sharon Lynn Miller, Gahanna
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
Kristin Ann Ross, Akron
Eric Paul Rugo, Middleton
Carl P. Rust, Lima
Diana Lynn Sanders, Lima
Mark David Scranton, Columbus
Deborah Jean Sealscott, Van Wert
Stacey Lynn Secrest, Belle Valley
Renee Christine Selvaggio, Egan, MN
Andrew F. Skove, Long Branch, NJ
Jane Elizabeth Slika, Barberton
Andrew John Smith, West Liberty
Cora Jeanne Smith, Columbus
Goldie Spencer, Mansfield
David J. Spurlock, Jr., Reynoldsburg
Jeffrey Lee Stephens, Findlay
Frances E. Sweeney, Grove City
Sequoia Mariette 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 Wolfinger, Mansfield
Cynthia Kay Wood, Morral
Lana Kay Woodrum, Coshocton
Jennifer Jane Wren, Bellefontaine
James Andrew Zimmerman, Springfield
Suzanne Christine Zupanovic, Euclid

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

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

Bachelor of Science in Aviation

Rickie Eugene Bowerman, Republic
Matthew Thomas Brown, Brecksville
Rex Don Fornaro, Long Valley, NJ
James Elwood Guilkey, Jr., Portsmouth
Thomas Carey Mellars, 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
Brian Christopher Costa, Little Rock, AR
Joseph Francis Ennis, Columbus
Maher Tawfick Karadsheh, Amman,
Jordan
Michael Francis Morgan, Westerville
Dimitar 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 Ahluwalia, New Delhi,
India
David Deron Ellis, Cincinnati
Christopher Lee Hlebak, 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. Boschert, Monroe
Bryan Jeffery Coates, Lorain
Todd Anthony Herrmann, Granville
Frode Larsen, Youngstown

Scott Edward Russ, Groveport
Craig Leroy Truesdell, Bremen
Peter Charles Tushar, Jr., Eastlake

Bachelor of Science in Engineering Physics

Alicia Raneë Allbaugh, Newark
David Walter Ferguson, Gahanna

Bachelor of Science in Industrial and Systems Engineering

James Andrew Gallagher, Mentor
Bortman Tom Jung, Sylvania
Kathleen Ann McElhinny, Worthington

Bachelor of Science in Mechanical Engineering

Nicholas Robert Anderson, Caledonia
Donald F. Baer, Marion
Diana Dawn Glawe, Berea
Michael David Hartman, Bremerton, WA

Bachelor of Science in Metallurgical Engineering

Diana Lynn Klingenberg, Mentor

School of Architecture

Bachelor of Science in Architecture

David S. Birnbaum, Richmond Heights
John Morgan Matthews, Troy
Samantha Ann Moody, North Olmsted
Michael Joseph White, San Antonio, TX
Mark Alan Zabonik, Columbus

Bachelor of Science in Landscape Architecture

Bryan Patrick Maxwell, Columbus

College of Home Economics

Dean: Lena Bailey

Bachelor of Science in Home Economics

Kevin Anthony Anello, Cincinnati
Renee Judith Ault, Parma
Anita Marie Bahn, Ashland
Samantha Jayne Bennett, Washington
Court House
Amy Beth Blocker, Dublin

Maria Carmel Bonaventura, Columbus
Michael Nathan Callif, Groveport
Cheryl Lynne Childress, Delaware
Carol Ann Crandall, Columbus
Lisa Kay Dodds, Washington Court House
Patricia Brown Douglas, Columbus
Michael Patrick Dowley, Columbus
Heidi Lee Durst, Fairborn
Michelle Lynn Golden, Pepper Pike
Shari Lynn Gruber, Blacklick
Kimberly Ann Holle, Columbus
Cindy Lee Huckle, Amherst
Christine Annette Hufnagle, Sandusky
Cathy Ann Jensen, Columbus
Robin Khalil Karim, Columbus
Jody Rae King, Zanesville
Theresa Neal Klinebriel, Utica
Sherry Lynn Kucera, Chagrin Falls
Kimberly Jill Lawhorn, Pataskala
Yana Levin, Beachwood
Abbey Sue Lieberman, Akron
Patricia Louise Macre, Steubenville
Hope Ann Margala, New Middleton
Lisa Ann May, Columbus
Kelly Tiyiti McClendon, Cincinnati
Cheryl Lynn Mounts, Columbus
Sally Marie Noggle, Ashville
Wesley Ray Pennington, Westerville
Beth Barbara Perko, Cuyahoga Falls
Laurie Ann Reifert, Toledo
Melinda Sue Ring, Plain City
Vanessa Irene Simmons, Garfield
Kay Marie Sutula, Lima
Kimberly Christine Trainer,
Mechanicsburg
Pamela Vance, Newark
Karol Essman Van Runkle, Westerville
Patricia Kay Webster, Delaware

Bachelor of Science in Hospitality Management

Susan Louise Bellan, Butler
Matthew Thomas Gerth, Columbus
Mark Joseph Kucera, Walton Hills
Cheryl Renee Perkins, Lima
Jonathan Hudson Scott, Bay Village
Thomas Edward Seikel, Akron
William Joseph Smiley, Jr., Parma
Maureen Steines, Warren
Gregory Lee Varesco, Avon Lake
Scott Harvey Waxter, Walkersville
Jeffrey L. Workman, Zanesville
Joseph Albert Yuse, Jr., Delaware

College of Medicine

Dean: Manuel Tzagournis, M.D.

Doctor of Medicine

J. Kevin Ahern, Urbana
B.S.
Steven Craig Burks, Cleveland
B.A. (Oakwood College)
James Reeder Girvin, Dayton
B.A. (Earlham College)

Julia Jean Kelly, Limaville
B.S. (Oral Roberts University)
Diane Marie Kolody, Homewood, IL
B.S. (University of Florida)
M.S.

Stuart Henry Miller, Columbus
B.S.

Charles Thomas Knight, Marysville
B.S. (Siena College)

Jill Ann Schellhase, Lancaster
B.S. (Michigan Technological University)

Sandra Delores Thomas, Cleveland
B.S. (Massachusetts Institute of
Technology)

School of Allied Medical Professions

Bachelor of Science in Allied Health Professions

Cynthia Marie Anderson, Waynesville
Gail Yvette Beaudoin, Chicopee, MA
Denise Marie Berg, La Quinta, CA
Sheila Ann Bracken, Worthington
Mary Elizabeth Dougherty, Columbus
Kathleen Marie Early, Chagrin Falls
Andrew Glenn Hagar, Dayton
Janelle Hideg, Brookfield
Anna Mae Lang-Clark, Waterford
Gwendolyn Laura Miller, Cleveland
Arlene Pearl Miller-Erb, Ellsworth
Dorothy M. Rabenstein, Springfield, VA
Robert Allen Rehkop, Columbus
Ronda Leeann Rucker, Trotwood
Joseph Francis Schweitzer, Columbus
Becky J.C. Springsteen, Burbank
Tammi Lee Tarr, Weirton, WV
Mary Elizabeth Winters, Plymouth, MI
Betty Irene Woodward, Bloomingdale
Marielyn Yvonne 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.Nurs. (Carlow College)

Edward John Weisenberger, Tiffin
B.S.Nat.Res., B.S.Nurs.

College of Nursing

Dean: Carole A. Anderson

Bachelor of Science in Nursing

Darcey Grace DiStefano, Middleburg
Heights
Sheila Haggins, Windsor
Kathryn Ann Hink, Columbus

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 McQuinnif, 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. Cassidy

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
 Kyle 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., Wellsville
 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.

Summa Cum Laude with Distinction in Elementary Education

Diana Lynn Sanders

Summa Cum Laude with Honors in the Liberal Arts

Diana Kathryn Smetters

Summa Cum Laude

David Alan Cromleigh
 Marjorie Phillis Duncan
 Toni Gallow
 Diana Dawn Clawe
 Jennifer Muskoff Ishida
 Kathleen Jeannette Knaack
 Mui Huat Lim
 Natee Masathienvong
 Arienne Adorée McCracken
 Kathleen Ann McElhinny
 Kelley Leigh Miller
 Teresa D. Nolte
 Jon Andrew Sims
 Jane Elizabeth Slifka
 Laura Ann Tersigni

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 Doebr
 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 Dicksworth
 Donald Gene Strinka

Cum Laude

Robert Harry Back
Deborah Ann Barnette
Cathy LuAnne Bauer
Trent Kerwin Branson
Eugene Paul Cordonnier
John Charles Deems
Paul Anthony Demboski
Cynthia Lynelle Doll
Lori Lee Doty
Anne Marie Fuchik
Mark A. Girman
Michael David Guarasci
Kyle Francis Higgins
Melanie Jean Kindell
Frode Larsen
Lisa Ann May
Paula Leslie Metzger
Lona 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 Stalkamp
Paul Steven Stark
Yin Fen Tan
Lesley Anne Taylor
Theresa Ann Thompson
Yvonne E. Walters
Lisa Anne Wheeler
Kathy Ann Wolfinger
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.
* * *

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.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, John W. Kessler, and Milton A. Wolf.

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.

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

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, John W. Kessler, and Milton A. Wolf.

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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

September 1 and 2, 1988 meeting, Board of Trustees

Mr. Smail (contd)

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

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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

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Mr. Small (contd)

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. Small?

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.

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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. Small:

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

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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?

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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.

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September 1 and 2, 1988 meeting, Board of Trustees

NAMING OF BUILDING

Resolution No. 89-20

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.

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UNIVERSITY HOSPITALS BOARD APPOINTMENTS

Resolution No. 89-21

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

September 1 and 2, 1988 meeting, Board of Trustees

UNIVERSITY HOSPITALS BOARD APPOINTMENTS (contd)

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.

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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. LEPOER, 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. DONOGHUE, 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. FERENGE, Cooperative Extension Service, with the title Assistant Professor Emeritus, change effective date from July 1, 1988, to January 1, 1989.

September 1 and 2, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

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

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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 Epistularum (1938), Index Verborum in Ciceronis Rhetorica necnon Incerti Auctoris 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

September 1 and 2, 1988 meeting, Board of Trustees

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

September 1 and 2, 1988 meeting, Board of Trustees

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 lectures 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.

September 1 and 2, 1988 meeting, Board of Trustees

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.

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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

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	200	\$14,664,606.58
Engineering Experiment Station	59	\$ 465,891.00
Total	259	\$15,130,497.58

The Ohio State University Development Fund

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

September 1 and 2, 1988 meeting, Board of Trustees

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

SUMMARY FOR JUNE 1988 (contd)

The Ohio State University Development Fund (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
The Ohio State University Research Foundation	108	\$8,182,346.08
Engineering Experiment Station	29	\$ 358,547.00
Total	137	\$8,540,893.08

The Ohio State University Development Fund

Establishment of Named Funds

A. B., Dolly and Ralph Cohen Scholarship Fund (Scholarships)	\$	376,460.00
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September 1 and 2, 1988 meeting, Board of Trustees

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

SUMMARY FOR JULY 1988 (contd)

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

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (cont'd)

The Ohio State University Campaign
Progress Report
@ June 30, 1988

	<u>*Campaign Expectancies</u>	<u>Current Year Campaign Receipts (Jul 87-Jun 88)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1987</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$67,126,877	\$10,766,495	\$27,516,929	\$105,410,301	\$122,500,000	86
Friends	33,776,696	7,843,080	20,800,770	62,420,546	70,000,000	89
**Corporations	15,699,289	34,287,929	66,838,006	116,825,224	122,500,000	95
Foundations	<u>3,230,509</u>	<u>11,009,701</u>	<u>8,925,528</u>	<u>23,165,738</u>	<u>35,000,000</u>	66
Totals	\$119,833,371	\$63,907,205	\$124,081,233	\$307,821,809	\$350,000,000	88

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (cont'd)

THE OHIO STATE UNIVERSITY
OFFICE OF UNIVERSITY DEVELOPMENT
TOTAL UNIVERSITY PRIVATE GIFT SUPPORTJuly-June
1986-87 Compared to 1987-88GIFT RECEIPTS BY DONOR TYPE

	Donors			Dollars		
	July	through		July	through	
	<u>1986-87</u>	<u>1987-88</u>	<u>% Change</u>	<u>1986-87</u>	<u>1987-88</u>	<u>% Change</u>
Alumni	51,015	51,542	1	\$15,404,496	\$10,766,495	(30)
Non Alumni	27,034	25,408	(6)	10,174,960	7,843,080	(23)
Corporations	1,956	2,420	24	20,250,548	24,101,224	19
Corporate Foundations	286	279	(2)	2,167,649	1,945,716	(10)
Private Foundations	138	161	17	4,941,117	11,009,701	123
Other	<u>811</u>	<u>1,233</u>	52	<u>11,831,228</u>	<u>8,240,989</u>	(30)
TOTAL	81,240	81,043	-	\$64,769,998	\$63,907,205	(1)

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

\$2,000,000.00 - Department of Education, Washington, D.C., Grant Application for The National Center for Research in Vocational Education, The National Center for Research in Vocational Education (R. D. Ryan), 10 April 1988 through 31 December 1988. (Project 766764 - New)

\$593,747.00 - 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)

\$582,500.00 - National Aeronautics and Space Administration, Washington, D.C., A Center for Commercial Development of Space: Real-Time Satellite Mapping, Center for Mapping (J. D. Bossler), 1 March 1988 through 31 August 1988. (Project 765707 - Continuation)

\$308,915.00 - Department of Labor, Bureau of Labor Statistics, Washington, D.C., National Longitudinal Surveys of Labor Market Experience, Round X, Center for Human Resource Research (R. J. Olsen), 1 October 1987 through 30 September 1989. (Project 766448 - Continuation)

\$285,622.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, The Development, Implementation, and Evaluation of an Integrated Model Program and Curriculum in Alcohol and Drug Abuse for Nursing Education, Life Span Process (E. M. Burns), 1 September 1988 through 31 October 1990. (Project 766864 - New)

\$224,604.00 - 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)

\$199,800.00 - Department of Education, Washington, D.C., A Microcomputer-Based Approach to Improving the Basic Math Skills of Disadvantaged and Mainstreamed Handicapped Students, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 June 1990. (Project 766787 - New)

\$187,050.00 - 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)

\$176,920.00 - 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

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)

\$138,000.00 - Department of the Interior, Bureau of Mines, Washington, D.C., Mining and Mineral Resources Research Institute -- Annual Allotment, Department of Metallurgical Engineering (G. R. St. Pierre), 1 July 1988 through 30 June 1989. (Project 766866 - 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)

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)

\$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 Conrallymphokine, 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)

\$70,000.00 - National Security Council, Central Intelligence Agency, Washington, D.C., Generalized Moment-Method Antenna Model Development, Department of Electrical Engineering, ElectroScience Laboratory (E. H. Newman), 15 May 1988 through 15 May 1989. (Project 766796 - New)

\$69,838.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Analysis of Airborne Antenna Patterns, Department of Electrical Engineering, ElectroScience Laboratory (E. H. Newman and W. D. Burnside), 1 June 1988 through 31 May 1989. (Project 761012 - Continuation)

\$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 - Department of Energy, Argonne, Illinois, The Physics of Cellular Automata and Coherence and Chaos in Classical, Many-Body Dynamical Systems, Department of Physics (C. Jayaprakash and F. A. Hayot), 1 May 1988 through 30 April 1989. (Project 766728 - New)

\$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. Zakin) 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)

\$54,984.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Flow Cytometric Analysis of Hepatocytes from Normal, PFDA, and PH/DEN/PB-Treated Rats, Department of Veterinary Pathobiology (M. J. Tarr and R. G. Olsen), 1 May 1988 through 30 April 1989. (Project 766801 - 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)

\$52,542.00 - 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 (T. Herbert), 1 May 1988 through 30 September 1988. (Project 766854 - 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)

\$51,853.00 - Department of Energy, Argonne, Illinois, Investigations of Ultrasonic Surface Wave Interaction with Porous Saturated Rocks, Department of Welding Engineering (L. Adler), 1 July 1988 through 30 June 1989. (Project 766168 - Continuation)

\$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)

\$49,866.00 - 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 - 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 Silicaniionic 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.

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

\$22,628.00 - National Science Foundation, Washington, D.C., Development and Applications of Periodic Soliton Theory for Nearly Integrable Partial Differential Equations, Department of Mathematics (M. G. Forest), 1 June 1988 through 30 November 1989. (Project 766786 - New)

\$21,450.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Psycho-sedation 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$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. Loebs), 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

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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)

Equipment - Department of Energy, Idaho Falls, Idaho, Energy-Related Laboratory Equipment, Engineering Experiment Station (J. W. Talnagi), 1 May 1988 through 31 July 1988. (Project 766759 - New) (Approximate Dollar Value - \$5,000.00)

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

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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 Macrochantin Capsules, 50 mg, Four Times a Day for Seven Days in

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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)

\$4,862.00 - FMC Corporation, Philadelphia, Pennsylvania, Microcrystalline Cellulose Stabilized Emulsions, College of Pharmacy (S. G. Frank), 15 May 1988 through 20 September 1988. (Project 764077 - Continuation)

\$4,679.08 - Wyeth Laboratories, Philadelphia, Pennsylvania, Phase II Evaluation of the Hemodynamic Effects of Intravenous Recainam in Patients Undergoing Elective Cardiac Catheterization, Department of Internal Medicine (D. B. Van Fossen and C. A. Bush), 1 August 1987 through 31 December 1988. (Project 766289 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$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)

\$109,580.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Exemplary Dental Services for the Handicapped, Nisonger Center (E. S. Sterling), 1 July 1988 through 30 June 1989. (Project 766812 - Continuation)

\$86,286.00 - Smokeless Tobacco Research Council, Inc., New York, New York, In Vivo and In Vitro Effects of Smokeless Tobacco on Oral Bacteria and Periodontal Disease, Oral Biology (K. Schroeder and S. Rosen), 1 July 1988 through 30 June 1989. (Project 766816 - 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)

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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. Cunnyngham), 1 July 1988 through 31 December 1988. (Project 766842 - New)

\$47,153.00 - Robert Wood Johnson Foundation, Princeton, New Jersey, Robert Wood Johnson Dental Services Research Scholar, Community Dentistry (R. A. Kuthy), 1 July 1988 through 30 June 1989. (Project 766819 - 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)

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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 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 (P. F. Binkley), 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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 (G-GMP) Relaxation of Vascular Smooth Muscle, Department of Physiological Chemistry (J. D. Johnson), 1 July 1988 through 30 June 1989. (Project 766836 - New)

\$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 Ventricle, 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$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. Welsbrode), 1 October 1985 through 31 October 1988. (Project 765113 - Continuation)

\$14,350.00 - 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)

\$14,000.00 - The Samuel Roberts Noble Foundation, Inc., Ardmore, Oklahoma, Studies of Macrophage Biology, Department of Microbiology (B. S. Zwillig), 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$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)

\$5,280.00 - John D. and Catherine T. MacArthur Foundation, Chicago, Illinois, Preparatory Work Associated with the Early Literacy Research Project, Department of Educational Theory and Practice (G. S. Pinnell), 7 March 1988 through 15 May 1988. (Project 766860 - New)

\$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)

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)

\$5,000.00 - Schering-Plough Foundation, Kenilworth, New Jersey, Combination Chemotherapy Consisting of Diethylstilbesterol and Alpha-Interferon in Refractory Chronic Lymphocytic Leukemia, Department of Internal Medicine (P. L. Triozzi), 1 March 1988 through 28 February 1989. (Project 766782 - New)

\$4,964.00 - National Council of Teachers of English, Urbana, Illinois, Exploring the Use of Dramatic Activities in the Secondary English Classroom, Department of Educational Studies: Humanities, Science, Technological and Vocational (C. O'Neill), 1 June 1988 through 30 June 1989. (Project 766806 - 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)

\$3,000.00 - Council on Library Resources, Washington, D.C., A Cost-Effectiveness Formula for Library Reference Service, University Libraries (M. Murfin), 1 July 1988 through 30 June 1989. (Project 766846 - New)

\$3,000.00 - Missouri Division of Corrections/Human Resources, Jefferson City, Missouri, National Corrections Education Consortium, The National Center for Research in Vocational Education (R. D. Ryan), 1 January 1987 through 31 December 1987. (Project 765934 - 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)

\$2,500.00 - Nebraska Department of Education, Lincoln, Nebraska, National Consortium of State Career Guidance Supervisors, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766838 - Continuation)

\$2,475.00 - Arts Midwest, Minneapolis, Minnesota, Garth Fagan Bucket Dance Theatre, Mershon Auditorium (T. Van Leer), 21 November 1988 through 22 November 1988. (Project 766793 - 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)

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)

\$1,500.00 - Paint Valley Mental Health Board, Chillicothe, Ohio, Cooperative Extension Service Home Economists Elderly Caregiver Project, Cooperative Extension Field Operations (L. M. Goard, R. Merkwitz and G. Holsapple), 15 June 1988 through 14 June 1989. (Project 766868 - New)

TOTAL - OTHER NON-FEDERAL AWARDS \$ 2,697,627.00

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

\$57,107.00 - Public Utilities Commission of Ohio, Columbus, OH, "Assessment of Perry Nuclear Power Plant Safety Issues Related to the 1975 GE Nuclear Reactor Safety Studies," Department of Mechanical Engineering, 15 May 1988 through 15 November 1988. (312459)

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)

\$49,929.00 - McDonnell Aircraft Company, St. Louis, MO, "Development of Uniform Theory of Diffraction Solutions Scattering from Curved Surfaces," Department of Electrical Engineering, 15 June 1988 through 30 November 1988. (312461)

\$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)

September 1 and 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)

\$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.

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 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.

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 Miriam Ruggles Adkins Pickaway County
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 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.

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 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)

\$149,914.00 - Department of Agriculture, Science and Education, Washington, D.C., Hybridization Probes: Detection and Pathogenesis of Bovine Viral Diarrhea Virus Infections, Food Animal Health Research Program - OARDC (K. V. Brock), 1 July 1988 through 30 June 1991. (Project 766926 - New)

\$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

REPORT 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 EDNR 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)

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)

\$94,945.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Colorant Formulation of Polymeric Prosthetic Materials, Restorative and Prosthetic Dentistry (W. M. Johnston), 1 July 1988 through 30 June 1989. (Project 766900 - New)

\$91,061.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Uteroferrin Gene Expression During Fetal and Placental Development, Department of Animal Science - OARDC (R. C. M. Simmen), 1 July 1988 through 30 June 1989. (Project 765565 - Continuation)

\$84,902.00 - 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)

\$80,546.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Feline Retrovirus Associated Intestinal Dysfunction, Department of Veterinary Pathobiology (L. E. Mathes), 15 July 1988 through 30 June 1989. (Project 766909 - New)

\$80,300.00 - National Science Foundation, Washington, D.C., Gaseous and Aqueous Corrosion of Ceramics, Department of Ceramic Engineering (D. W. Readey), 1 July 1988 through 31 December 1989. (Project 765380 - Continuation)

\$79,857.00 - 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 764737 - Continuation)

\$76,294.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Muscarinic Receptor Abnormalities in Affective Illness, Department of Psychiatry (S. C. Dilsaver), 1 August 1988 through 31 July 1989. (Project 766385 - Continuation)

\$75,208.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Corneal Endothelial Pleomorphism From Contact Lenses, College of Optometry (J. P. Schoessler), 1 August 1988 through 31 July 1989. (Project 764852 - Continuation)

\$69,776.00 - National Science Foundation, Washington, D.C., Fluid Flow and Cleanliness of Steel in Continuous Casting Tundishes, Department of Metallurgical Engineering (Y. Sahai), 1 July 1988 through 30 June 1989. (Project 765636 - 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)

\$68,560.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Role of Polyamines in Calmodulin and G-Kinase Regulation, Periodontology (J. D. Walters), 1 July 1988 through 30 June 1989. (Project 765508 - Continuation)

\$61,371.00 - National Science Foundation, Washington, D.C., A Study of the Windfield Near Terra Nova Bay, Byrd Polar Research Center (D. H. Bromwich), 15 July 1988 through 30 June 1989. (Project 766896 - 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)

\$55,000.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Reading Recovery Project 1987-1991, Department of Educational Theory and Practice (G. S. Pinnell and D. Deford), 1 October 1988 through 30 September 1989. (Project 766402 - 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)

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)

\$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 - Department of Labor, Employment and Training Administration, Washington, D.C., Exploring Vocational Education, Counseling, and Information Processes, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 September 1988. (Project 766906 - 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)

\$24,077.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Coherence and Chaos in Integrable Partial Differential Equations, Department of Mathematics (E. A. Overman), 1 August 1988 through 31 December 1989. (Project 766917 - 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)

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)

\$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 11 November 1988. (Project 766888 - New)

\$6,944.00 - 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)

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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, 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)

\$24,000.00 - State of Ohio, Public Utilities Commission, Columbus, Ohio, Alternative Institutional Arrangements for Water Utility Regulation, National Regulatory Research Institute (D. N. Jones), 20 July 1988 through 15 November 1988. (Project 766922 - New)

\$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 28 November 1988. (Project 766938 - New)

TOTAL - STATE OF OHIO AWARDS

\$ 332,384.87

Industrial Research Contracts/Grants

\$137,500.00 - Alcoa Defense Systems, Inc., San Diego, California, Advanced Antennas for Future Air Vehicles, Department of Electrical Engineering, ElectroScience Laboratory (B. A. Munk), 16 February 1988 through 30 September 1988. (Project 766329 - 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)

Industrial Research Contracts/Grants (contd)

\$49,873.00 - General Electric Company, Cincinnati, Ohio, Electromagnetic Characterization of Detailed Design Features of Aircraft/Engine Exhaust Systems, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr.), 15 July 1988 through 14 July 1989. (Project 766939 - New)

\$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 Cell Differentiation and Queuine Hypomodification of tRNA, Comprehensive Cancer Center and Department of Physiological Chemistry (R. W. Trewyn), 1 April 1988 through 31 March 1989. (Project 766913 - 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 Prostate 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)

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)

\$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)

\$82,957.00 - Council for Tobacco Research - U.S.A., Inc., New York, New York, Neutrophil Stimulation: Biochemical and Cell Biological Studies, Department of Anatomy (J. M. Robinson), 1 July 1988 through 30 June 1989. (Project 766941 - 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)

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)

\$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)

\$30,700.00 - American Diabetes Association, Inc., Alexandria, Virginia, Effect of Streptozotocin Diabetes of Hepatic UDP-Glucuronyltransferase Activities, Department of Internal Medicine (R. B. Kirkpatrick), 1 July 1988 through 30 June 1989. (Project 766055 - 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)

\$22,000.00 - Eleven Members of the National Entrepreneurship Education Consortium, National Entrepreneurship Education Consortium, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766207 - Continuation)

\$21,234.00 - American Association of Retired Persons, Washington, D.C., Case Management -- State of the Art, College of Social Work (R. E. Boettcher), 1 March 1988 through 31 October 1988. (Project 766919 - 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 5q-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)

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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 766891 - 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)

\$6,830.00 - The Fred C. Gloeckner Foundation, Inc., New York, New York, Factors Influencing Optimization of Cold-Programming Responses of Case-Cooled Easter Lily Bulbs, Department of Horticulture - OARDC and Department of Horticulture (T. A. Prince), 1 September 1988 through 31 August 1989. (Project 765875 - Continuation)

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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 764689 - Continuation)

\$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)

\$3,000.00 - North Carolina State Department of Public Instruction, Raleigh, North Carolina, National Entrepreneurship Education Consortium, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766880 - Continuation)

\$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

September 1 and 2, 1988 meeting, Board of Trustees

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

ENGINEERING EXPERIMENT STATION

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)

\$55,367.00 - Chrysler Motors, Highland Park, MI, "CAD Input Optimization and Standards," Department of Engineering Graphics, 1 July 1988 through 30 June 1989. (529765)

\$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)

\$19,391.00 - General Motors Corporation, Flint, MI, "Induction System Structural Noise Analysis," Department of Engineering Mechanics, 1 July 1988 through 30 June 1989. (529768)

\$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.

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)

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.

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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.

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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.

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**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.

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**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.

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**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.

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**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.

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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 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 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

Date Received:	June 9, 1988
No. of Bids:	6
Low Bid:	\$ 470,501.00*
High Bid:	\$1,105,519.64*
Estimate of Cost:	\$ 771,985.00*
Awarded to:	Martin Construction, Columbus, OH
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.

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**

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.

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**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 (contd)**

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.

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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

September 1 and 2, 1988 meeting, Board of Trustees

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.

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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.

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**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

September 1 and 2, 1988 meeting, Board of Trustees

**COMPLIANCE WITH REGULATIONS OF THE
OHIO PUBLIC FACILITIES COMMISSION (contd)**

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.

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**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

September 1 and 2, 1988 meeting, Board of Trustees

**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.

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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.

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**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.

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**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.

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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.

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**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.

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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.

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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

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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.

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Minutes of the last meeting were approved.
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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.

Present: Leonard J. Immke, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, and John W. Kessler.

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.

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Mr. Immke reconvened the meeting on October 7, 1988, at 9:30 a.m.

Present: Leonard J. Immke, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, and Leslie H. Wexner.

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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

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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. Joan, please --

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

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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

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Dr. Huber: (contd)

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

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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.

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Dr. Huber: (contd)

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 cognitive 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

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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.

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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

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Dr. Huber: (contd)

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

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President Jennings: (contd)

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

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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).

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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.

October 6 and 7, 1988 meeting, Board of Trustees

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.

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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:

Ilseadore 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.

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October 6 and 7, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS

Resolution No. 89-41

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 Center 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.

YOSHIKO 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.

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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.

October 6 and 7, 1988 meeting, Board of Trustees

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.

October 6 and 7, 1988 meeting, Board of Trustees

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.

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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

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	135	\$14,186,148.46
Engineering Experiment Station	70	\$ 710,046.00
Total	205	\$14,896,194.46

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

October 6 and 7, 1988 meeting, Board of Trustees

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - August 1988

Federal Research Contracts/Grants

\$2,130,000.00 - Department of Labor, Bureau of Labor Statistics, Washington, D.C., National Longitudinal Surveys of Labor Market Experience, Round X, Center for Human Resource Research (R. J. Olsen), 29 September 1987 through 30 September 1989. (Project 766448 - Continuation)

\$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)

\$137,057.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., U.S. AID Program Support Grant for Fiscal Years 1986-91, Office of International Programs in Agriculture (D. O. Hansen), 29 August 1988 through 28 August 1989. (Project 765750 - 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. Koenigskecht), 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)

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)

\$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)

\$74,926.00 - National Science Foundation, Washington, D.C., Design, Specification, and Implementation of Reusable Software Components, Department of Computer and Information Science (B. Weide, W. F. Ogden and S. H. Zweben), 15 August 1988 through 31 January 1990. (Project 766994 - New)

\$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. Foland), 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. Neval), 15 July 1988 through 31 December 1989. (Project 766825 - New)

\$61,272.00 - National Science Foundation, Washington, D.C., An Integrated Symbolic and Signal Processing Workstation for Research in Signal Analysis, Machine Perception, and Computer Architecture, Department of Electrical Engineering (K. L. Boyer), 1 August 1988 through 31 January 1990. (Project 766992 - 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 766969 - 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)

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)

\$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)

\$52,471.00 - Department of Energy, Argonne, Illinois, Theoretical Studies of Dynamics and Correlations in Heavy Electron Materials, Department of Physics (D. L. Cox), 15 August 1988 through 14 August 1989. (Project 766287 - Continuation)

\$50,877.00 - National Science Foundation, Washington, D.C., Tools for Stochastic Analysis of NP-Complete Problems II, Academic Faculty of Management Sciences (W. T. Rhee), 15 July 1988 through 30 June 1990. (Project 766972 - New)

\$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 Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Scatterer Modeling/Calibration Study, Department of Electrical Engineering, ElectroScience Laboratory (R. J. Marhefka), 20 July 1988 through 30 September 1988. (Project 766957 - 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)

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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)

\$35,448.00 - 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 1988 through 30 June 1989. (Project 766961 - New)

\$34,288.00 - 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. 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)

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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)

\$20,347.00 - 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 Unstructured Uncertainty, Department of Aeronautical and Astronautical Engineering (R. K. Yedavalli), 1 June 1988 through 31 December 1988. (Project 766964 - New)

\$20,167.00 - Department of Labor, Bureau of International Labor Affairs, Washington, D.C., Study Tour for Mr. Fahad S. Al Mazyed, The National Center for Research in Vocational Education (R. D. Ryan), 11 August 1988 through 30 September 1988. (Project 766986 - 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)

\$6,448.00 - Department of Agriculture, Science and Education, Peoria, Illinois, Cooperative Agricultural Research, Office of the Director - OARDC (H. R. Conrad and R. F. Edwards), 1 October 1987 through 30 September 1988. (Project 766472 - Continuation)

\$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), 1 June 1988 through 31 May 1989. (Project 766945 - New)

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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 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

\$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 1988 through 30 June 1989. (Project 766218 - Continuation)

\$125,000.00 - 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)

\$110,000.00 - State of Ohio, Board of Regents, Columbus, Ohio, Workshops for Science Teachers on Humane Care and Use of Vertebrates, Laboratory Animal Center (J. F. Cornhill), 15 July 1988 through 31 December 1989. (Project 766935 - New)

\$102,655.15 - 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 1988 through 30 June 1989. (Project 766871 - Continuation)

\$95,000.00 - State of Ohio, Board of Regents, Columbus, Ohio, Science is Fun: A Hands-On Middle School Science Program, Mansfield Campus, Department of Chemistry (J. Z. Tarino), 15 July 1988 through 31 December 1989. (Project 766947 - New)

\$55,000.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Trainees in Community Mental Health Treatment for the Severely Mentally Disabled, College of Social Work (M. Coleman), 1 July 1988 through 30 June 1989. (Project 766958 - New)

\$50,132.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Shredded Newspaper for Animal Bedding -- Phase I and Phase II, Cooperative Extension State Operations (J. D. Rohrer), 28 July 1988 through 30 September 1989. (Project 766970 - New)

\$38,758.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio Entrepreneurs Research Project -- Year II, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766953 - Continuation)

\$21,002.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio Ventures in Business Ownership -- Year II, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766952 - Continuation)

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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)

\$50,825.00 - Land-O-Lakes Research Farm, Webster City, Iowa, Immune Responses to Rotavirus in Cows and Passive Protection in Calves, Food Animal Health Research Program - OARDC (L. J. Saif), 1 July 1988 through 30 June 1989. (Project 766223 - Continuation)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$49,920.00 - Textron Defense Systems, Wilmington, Massachusetts, Hybrid Body RCS Code Development, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr.), 19 May 1988 through 18 November 1988. (Project 766774 - New)

\$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)

\$24,338.00 - E. R. Squibb and Sons, Princeton, New Jersey, The Assessment of Aortic Insufficiency Using Digital Imaging Techniques, Department of Internal Medicine (A. J. Kolibash, C. A. Bush and S. C. Hirsch), 1 July 1988 through 30 June 1989. (Project 766965 - New)

\$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)

\$15,000.00 - Pfizer, Inc., New York, New York, Modern Approach to the Treatment of Hypertension Multicenter Study, Department of Family Medicine (G. A. Iben), 1 April 1988 through 30 September 1988. (Project 766966 - 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)

\$9,702.00 - Energy and Environmental Research Corporation, Irvine, California, Technical Assistance for Atmospheric Fluidized Bed Combustion Development and Demonstration, Department of Agricultural Engineering - OARDC, (H. M. Keener), 16 September 1987 through 15 June 1991. (Project 766654 - New)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$7,000.00 - Ameritech Corporation, Arlington Heights, Illinois, Knowledge-Based Test Development Support, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 September 1988. (Project 766652 - Continuation)

\$2,974.00 - GAC International, Central Islip, New York, Evaluation of New Orthodontic Bracket Base, Orthodontics (Z. Davidovitch), 1 July 1988 through 31 October 1988. (Project 766991 - New)

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. McClenahan), 1 January 1988 through 30 September 1988. (Project 766713 - Continuation)

\$60,000.00 - 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. Gagarella), 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)

\$32,200.00 - People's Republic of China, Beijing, China, Training in American Enterprise, Trade, and Technology Transfer in the 21st Century for Representatives of the People's Republic of China, Department of Mechanical Engineering (R. E. Bailey), 1 June 1988 through 31 December 1988. (Project 766956 - New)

\$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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

\$23,858.00 - Florida International University, Miami, Florida, Consortium for the Development of Professional Materials for Vocational Education, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 767004 - Continuation)

\$20,636.00 - The Nature Conservancy, Arlington, Virginia, Integration of Conservation Data Center Databases into National and Regional Geographic Information Systems (A Costa Rica Case Study), Department of Geography (D. F. Marble), 15 September 1988 through 14 July 1989. (Project 766997 - 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)

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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)

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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)

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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. (529326)

\$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

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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.

October 6 and 7, 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 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).

October 6 and 7, 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 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.

October 6 and 7, 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 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.

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**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.

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**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.

October 6 and 7, 1988 meeting, Board of Trustees

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

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

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**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.

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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.

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**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.

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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.

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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

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OFFICIAL PROCEEDINGS OF THE
SECOND JOINT MEETING
OF THE OHIO STATE UNIVERSITY BOARD OF TRUSTEES
AND THE UNIVERSITY HOSPITALS BOARD

Columbus, Ohio, November 3, 1988

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.

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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.

University Hospitals Board Present: Arthur I. Vorys, Chairman, John G. Kramer, Charles Y. Lazarus, John R. Hodges, Susan J. Insley, Morris S. Rosenblum, and William M. Bennett.

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.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, John G. Kramer, Arthur I. Vorys, Charles Y. Lazarus, John R. Hodges, Susan J. Insley, Morris S. Rosenblum, and William M. Bennett.

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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

November 3, 1988 Joint Meeting, Board of Trustees and University Hospitals Board

Dr. Tzagournis: (contd)

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

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

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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

Dr. St. Pierre: (contd)

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

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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.

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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

Mr. Nichols: (contd)

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

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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.

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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 --

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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 of 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.

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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 outliers. 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,

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Dr. Brand: (contd)

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

President Jennings: (contd)

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.

Dr. St. Pierre: (contd)

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

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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.

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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.

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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

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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.

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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 Cottillion 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.

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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.

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Attest:

Madison H. Scott
Secretary

Leonard J. Immke
Chairman

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THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FORTY-SIXTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, November 4, 1988

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.
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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.

Present: Leonard J. Immke, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, and John W. Kessler.

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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 fourth 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.

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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,

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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

November 4, 1988 meeting, Board of Trustees

Mr. Ihrig: (contd)

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 instructional 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.

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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.

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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.

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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 --

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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?

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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,

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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

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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?

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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.

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Mr. Ihrig:

Thank you.

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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 Stony 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

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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 "0'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.

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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

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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,

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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?

November 4, 1988 meeting, Board of Trustees

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.

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Mr. Immke:

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.

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**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.

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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.

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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.

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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.

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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.

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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. WARBROD, 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.

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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.

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 Periodontics 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.

November 4, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

James H. Warner

The Board of Trustees of The Ohio State Univeristy 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 Univeristy 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 Specilalist in the Department of Animal Science. He remained in this position untl 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.

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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

November 4, 1988 meeting, Board of Trustees

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

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	121	\$7,081,270.89
Engineering Experiment Station	52	\$1,680,617.00
Total	173	\$8,761,887.89

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
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The Ohio State University Campaign
Progress Report
@ September 30, 1988

	<u>*Campaign Expectancies</u>	<u>Current Year Campaign Receipts (Jul 88-Sep 88)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1988</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$64,967,844	\$4,243,012	\$38,283,424	\$107,494,280	\$122,500,000	88
Friends	33,736,675	1,425,335	28,643,850	63,805,860	70,000,000	91
**Corporations	16,403,878	3,039,092	101,125,935	120,568,905	122,500,000	98
Foundations	<u>3,465,009</u>	<u>935,275</u>	<u>19,935,229</u>	<u>24,335,513</u>	<u>35,000,000</u>	70
Totals	\$118,574,406	\$9,642,714	\$187,988,438	\$316,204,558	\$350,000,000	90

*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

	Donors			Dollars		
	July 1987-88	through 1988-89	September % Change	July 1987-88	through 1988-89	September % Change
Alumni	12,249	10,490	(14)	\$1,315,442	\$4,243,012	223
Non Alumni	7,622	7,269	(5)	1,359,927	1,425,335	5
Corporations	451	615	36	1,556,576	1,715,081	10
Corporate Foundations	138	119	(14)	375,185	514,181	37
Private Foundations	44	50	14	5,354,163	935,275	(83)
Other	<u>245</u>	<u>301</u>	23	<u>803,336</u>	<u>809,830</u>	1
TOTAL	20,749	18,844	(9)	\$10,764,629	\$9,642,714	(10)

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

November 4, 1988 meeting, Board of Trustees

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:

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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)

\$81,900.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Retention-Based Counseling Program, Agricultural Technical Institute - Administrative Support (D. D. Garrison), 1 September 1988 through 31 August 1989. (Project 767032 - New)

\$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.

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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

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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)

\$56,030.00 - National Science Foundation, Washington, D.C., Nuclear Physics at Low and Intermediate Energies, Including Investigations of Fundamental Symmetries and Nuclear Astrophysics, Department of Physics (T. R. Donoghue and H. J. Hausman), 1 November 1988 through 30 April 1989. (Project 764671 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$35,018.00 - 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 1990. (Project 766732 - Continuation)

\$35,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Adaptive Arrays for Satellite Communication, Department of Electrical Engineering, ElectroScience Laboratory (I. J. Gupta and E. K. Walton), 19 August 1988 through 19 October 1988. (Project 764040 - Continuation)

\$30,000.00 - National Foundation for the Arts and Humanities, National Endowment for the Humanities, Washington, D.C., An Archaeological Study of Proto-Elamite Civilization in Anshan, Department of Anthropology (W. M. Sumner), 1 October 1988 through 30 September 1989. (Project 767053 - New)

\$27,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, In Vitro and In Vivo Persistence of Canine Distemper Virus, Department of Veterinary Pathobiology (G. S. Krakowka and M. J. Oglesbee), 1 September 1988 through 31 August 1989. (Project 767020 - New)

\$26,004.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Intracellular Survival of Ehrlichia risticii, Department of Veterinary Pathobiology (Y. Rikihisa and M. Y. Wells), 15 September 1988 through 14 September 1989. (Project 767058 - New)

\$24,783.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Studies in Electromagnetic Scattering, Department of Electrical Engineering, ElectroScience Laboratory (P. H. Pathak), 1 September 1988 through 31 December 1988. (Project 763822 - Continuation)

\$24,639.00 - Department of Health and Human Services, Office of Human Development Services, Administration of Children, Youth and Families, Chicago, Illinois, Child Welfare Traineeship Program, College of Social Work (N. J. Rindfleisch), 1 July 1988 through 30 June 1989. (Project 767062 - New)

\$21,450.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Lead and Cadmium from Smokeless Tobacco in Male Users, Diagnostic Services (C. J. Neal, Jr.) and Oral Biology (K. Schroeder), 1 September 1988 through 31 August 1989. (Project 767064 - New)

\$19,797.00 - Department of the Army, Army Corps of Engineers, Fort Belvoir, Virginia, Process Data from Dynamic Global Positioning System Studies, Department of Geodetic Science and Surveying (C. C. Goad), 25 August 1988 through 24 December 1988. (Project 767060 - New)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$17,886.00 - National Science Foundation, Washington, D.C., A Cooperative Climatological-Glaciological Program in the Antarctic Peninsula -- Phase 1, 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)

\$5,518.70 - Department of Agriculture, Science and Education, Peoria, Illinois, Cooperative Agricultural Research, Office of the Director - OARDC (H. R. Conrad and R. F. Edwards), 1 October 1987 through 30 September 1988. (Project 766472 - 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)

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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)

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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)

\$94,085.00 - The Procter and Gamble Company, Cincinnati, Ohio, Dry Socket Study, Oral/Maxillofacial Surgery (L. J. Peterson), 15 August 1988 through 15 February 1990. (Project 767070 - New)

\$84,952.00 - Burroughs Wellcome, Research Triangle Park, North Carolina, A Multicenter, Placebo-Controlled, Parallel Design, Dose-Response

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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)

\$42,409.00 - Pfizer, Inc., Groton, Connecticut, A Phase I Study of the Effect of Concomitant Antacide Administration on the Absorption of Azithromycin, Department of Pharmacology (N. Gerber), 20 May 1988 through 19 August 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)

\$28,048.00 - Kaiser Aluminum Corporation, Ravenswood, West Virginia, Administering a Competency Assessment Program for Kaiser Aluminum Maintenance Personnel, The National Center for Research in Vocational Education (R. D. Ryan), 1 August 1988 through 31 December 1988. (Project 767078 - New)

\$23,870.00 - Ortho Pharmaceutical Corporation, Raritan, New Jersey, A Multicentric, Open-Label, Randomized Study to Evaluate the Safety and Efficacy of Oral Ofloxacin Versus Standard Antimicrobial Therapy in the Treatment of Pneumonia, Department of Internal Medicine (S. L. Koletar and F. J. Fass), 1 September 1988 through 31 August 1989. (Project 767039 - New)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$17,617.00 - World Book Encyclopedia, Chicago, Illinois, Graduate Student Practicum -- 1988-1989, Education Administration (T. M. Stephens), 1 September 1988 through 30 June 1989. (Project 767011 - Continuation)

\$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)

\$168,759.00 - Pennsylvania Department of Education, Harrisburg, Pennsylvania, Alternative Design(s) for the Commonwealth of Pennsylvania's Delivery of a Comprehensive Articulated Program of Vocational Education, The National Center for Research in Vocational Education (R. D. Ryan), 1 August 1988 through 15 March 1989. (Project 767030 - New)

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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 - 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)

\$37,657.00 - Pennsylvania Department of Education, Harrisburg, Pennsylvania, Consortium for the Development of Professional Materials for Vocational Education, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 767072 - 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)

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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)

\$14,650.00 - The Colorado Public Utilities Commission, Denver, Colorado, Telecommunications Assistance to the Colorado Public Utilities Commission, National Regulatory Research Institute (D. N. Jones), 1 July 1988 through 31 December 1988. (Project 766662 - Continuation)

\$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 Paleoenvironmental 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)

\$10,905.00 - Western Iowa Technical College, Sioux City, Iowa, Approaching a Comprehensive Institutional Plan for Western Iowa Technical College, The National Center for Research in Vocational Education (R. D. Ryan), 1 October 1988 through 28 February 1989. (Project 767055 - 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)

\$9,000.00 - Taiwan Government, Washington, D.C., Study on the Training and Employment of Service Industries Fellowship Program -- Taiwan, The National Center for Research in Vocational Education (R. D. Ryan and V. M. Axelrod), 15 September 1988 through 15 March 1989. (Project 767056 - New)

\$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)

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)

\$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 Hydrolics Code COMMIX-1A, Department of Mechanical Engineering (T. Aldemir), 15 June 1988 through 30 September 1988. (Project 766210 - Continuation)

\$5,000.00 - American Academy of Facial Plastic and Reconstructive Surgery Foundation, Washington, D.C., An Evaluation of Skin Flap Survival in Diabetic and/or Atherogenic Rats and Flap Survival Enhancement with Free Radical Inhibitors, Department of Otolaryngology (D. E. Schuller and F. S. B. Rayne), 1 September 1988 through 31 August 1989. (Project 767038 - New)

\$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)

\$4,786.00 - Operation Crossroads Africa, Inc., New York, New York, Seminar on Vocational/Technical Education for the 1988 African Leaders' Program, The National Center for Research in Vocational Education (R. D. Ryan), 1 September 1988 through 30 November 1988. (Project 767065 - 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)

\$59,500.00 - General Electric, Schenectady, NY, "Design, Fabrication and Testing of a Turbojet Engine Simulator," Department of Aeronautical and Astronautical Engineering, 1 September 1988 through 31 October 1988. (312472)

\$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)

\$49,500.00 - General Electric, Cincinnati, OH, "Testing of Engine Simulator Configurations of Alitalia Engine Test Cell Model for CF6-80C2 Engine," Department of Aeronautical and Astronautical Engineering, 1 August 1988 through 17 October 1988. (312469)

\$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)

\$30,000.00 - Advanced CardioSystems, Inc., Mountain View, CA, "Three Dimensional Coronary Artery Reconstruction," Biomedical Engineering Center, 15 July 1988 through 1 December 1988. (312470)

\$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)

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)

\$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)

\$11,030.00 - Mitre Corporation, Bedford, MA, "Feasibility Studies for Over the Horizon Radar Target Identification," Department of Electrical Engineering, 15 July 1988 through 30 September 1988. (312471)

\$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.

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 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.

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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

November 4, 1988 meeting, Board of Trustees

**NON-MANDATORY TRANSFER FROM CURRENT FUNDS
FISCAL YEAR 1987-88 (contd)**

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

<u>Account Description</u>	<u>Account Number</u>	<u>Transfer From A/C Number</u>	<u>Amount</u>
<u>ENDOWMENT FUNDS</u>			
Endowment Investment Pool	070000	032910	1,050.00
Endowment Clearing Account	070002	010956	200,000.00
Endowment Clearing Account	070002	050999	19,985.61
Endowment Clearing Account	070002	051504	12,000.00
Income Reserve	070004	020000	(1,325,000.00)
College of Education Fund for Excellence	071385	031705	6,072.25
Josephine Sitterle Failer Award Fund	072116	035032	234.00
Friends of WOSU Endowment Fund	072324	033227	14,409.35
The Frank E. and Harriet E. Hedrick Aviation Student Award Fund	073059	037789	(6,022.93)
The R. Bruce Hohn Residency in Small Animal Veterinary Surgery	073248	011671	60.00
The Charlotte S. Huck Children's Literature Endowment Fund	073311	011662	59,596.50
The Charlotte S. Huck Children's Literature Endowment Fund	073311	031705	4,150.00
Humanities Fund	073338	032445	30,000.00
Law Centennial Building	073976	038039	81,125.34
Ohio Eminent Scholar in Hydrogeology	075352	038442	250,000.00
Ohio Eminent Scholar in Materials Research	075355	038441	250,000.00
OSU Name & Seal Scholarship Fund	075427	015102	350,000.00
Endowment Fund for Research in Optometry	075510	035260	30,000.00
Pharmacy Advancement	075725	010000	(35,000.00)
Pharmacy Advancement	075725	050520	(22,500.00)
Franz Theodore Stone Laboratory Visiting Professorship Fund	077014	033701	4,000.00
Robert Taylor Fellowship	077137	036306	46,450.00
Unrestricted Gifts	077435	015003	3,956.81
Unrestricted Gifts	077435	015004	2,720.10
Unrestricted Gifts	077435	015015	47,779.95
Florence O. Wilson Fund	077723	011073	1,972.35
Hazel C. Youngberg Memorial Fund	077788	015027	123,607.98
Various Endowment Funds	07XXXX	02XXXX	897,447.69
Total Transfers to Endowment Principal Funds			<u>\$ 1,048,095.00</u>

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

<u>Account Description</u>	<u>Account Number</u>	<u>Transfer From A/C Number</u>	<u>Amount</u>
<u>To: LOAN FUNDS</u>			
Emergency Loans-ATI	079991	033230	(24,467.78)
Total Transfers to Loan Funds			\$ (24,467.78) =====
<u>To: ANNUITY AND LIFE INCOME FUNDS</u>			
H.W.Almen Annuity & Life Income Fund	077961	038191	(187.86)
Total Transfers to Annuity and Life Income Funds			\$ (187.86) =====
<u>To: PLANT FUNDS</u>			
<u>Unexpended</u>			
Cancer Clinic-Dave Thomas Gift	082062	050511	(254,015.94)
Twelfth Avenue Ramp	082066	016007	(4,335.81)
Northwest Utility Plan	082074	010000	(50,000.00)
Biggs Facility - Gifts	082080	010063	(632,117.74)
Visual Arts Center-Gifts	082081	051501	(939,544.87)
Total Transfers to Unexpended Plant Funds			\$ (1,880,014.36) =====
<u>Renewal and Replacement Funds - Remodeling and Renovation</u>			
Dorm Contingency Fund	085049	010063	(315,193.64)
Dorm Contingency Fund	085049	017200	250,000.00
Public Safety Building Remodeling	085067	010000	(27,385.00)
Parking Lot Repairs	085071	016007	25,000.00
Housing Commission #3 Retrofit	085169	017300	1,016.64
Parking Ramp Repair	085175	016007	25,000.00
South Medical Parking Ramp	085176	016007	50,000.00
Mendenhall - Cold Room	085193	010000	20,177.00
Farm Science Review Relocation	085196	011083	150,000.00
Airport Renovations (Project 1)	085223	010000	5,000.00
Building Maintenance Reserve	085231	014007	50,000.00
WOSU Equipment	085254	033227	(499.06)
18th Avenue Extention	085259	010000	270,300.00
Lincoln Tower-1897RC	085268	010000	3,163.00

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

<u>Account Description</u>	<u>Account Number</u>	<u>Transfer From A/C Number</u>	<u>Amount</u>
<u>Renewal and Replacement Funds -</u>			
<u>Remodeling and Renovation - Continued</u>			
North Medical Parking Ramp	085269	016007	50,000.00
Ohio Union Roof Repair	085270	010000	(10,627.05)
UNITS Project	085276	010000	(183,938.92)
Lincoln Tower 7th Floor Renovation	085301	010000	30,896.45
Back Pressure Turbine	085310	010000	(20,010.60)
Conard Gallery - Mansfield	085314	037965	30,000.00
1985B Gen Receipt Bond Constrn Fund	085315	014110	2,160.00
Wiseman Lab Renovation	085316	057171	50,000.00
1986 Gen Receipt Bond Constrn Fund	085350	010063	(1,746,339.90)
Hamilton Hall Relocation	085353	010000	60,091.00
Kottman-Biotechnology Lab	085365	010000	(141,250.00)
AM Night Transmitter	085376	033227	575,720.00
Lima Parking #3 West	085380	010928	10,705.60
Rightmire Biotechnology Center	085381	010000	3,682,960.06
Treasurers Office Renovation	085389	010000	(124,894.00)
Treasurer-Renovtn of Lincoln Tower	085389	015036	130,830.00
Emergency Lighting	085391	010000	5,510.00
International Studies Remodel	085396	010000	18,879.00
Johnston Lab Renovation	085397	010000	28,000.00
Sisson Lab Renovation	085401	015108	36,455.00
Oxley Hall Renovation	085402	010000	60,000.00
Enarson Hall Renovation	085414	010000	12,500.00
Library Project 2848 AR	085428	011085	6,375.00
Student Life Renovation	085429	010000	9,000.00
Smith Renovation - Project 2951	085434	010000	117,895.00
Project 4804 - Starling-Loving	085435	057171	166,258.00
Project 2825 - Cunz Renovation	085436	010000	23,090.00
Project 2851 AR-Goss Lab	085441	015108	63,139.00
Project 2851 AR-Goss Lab	085441	015109	2,450.00
St. John Arena Scoreboard	085443	010063	1,031,445.89
WOSU Transmitter	085447	033227	119,369.00
Project 3013-Postle Hall	085449	010000	23,000.00
Project 3013-Postle Hall	085449	034947	34,760.00
Pressey Hall/Phase II	085455	010000	100,000.00
Project 2885 - Rightmire Renovation	085463	010000	48,033.00
Project 3005-Growth Chambers	085471	010000	540,000.00
Project 2985-Green House	085472	010000	260,000.00
Hopkins Fire-Project 3127	085473	010000	10,000.00
Project 3122-Eminent Scholar Office	085475	010000	27,664.00

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

<u>Account Description</u>	<u>Account Number</u>	<u>Transfer From A/C Number</u>	<u>Amount</u>
<u>Renewal and Replacement Funds -</u>			
<u>Remodeling and Renovation - Continued</u>			
Cancer Research-Bone Marrow	085479	050511	61,564.16
Cancer Research-Microtron	085480	050511	144,299.74
Golf Course Bridge	085481	016019	27,600.00
0020 Postle Hall-Project 2707	085484	010000	53,560.00
Neil-17th/Project 3139	085485	010000	50,000.00
Project 3934/223 Bio Science	085486	010000	25,223.00
Project 2939-557/568 Bio Science	085487	010000	27,300.00
Project 3143-Baker System	085488	010000	33,900.00
Starling Loving Project 4829	085489	057171	116,300.00
Project 3108 AR-Parks Hall	085491	010000	144,000.00
St. John Balcony	085492	016019	283,430.00
Project 2323 AR-Morrison Tower	085493	017200	90,000.00
Food Service Consulting	085494	017200	50,347.34
Project 3156-Animal Science	085495	010000	17,835.00
Project 2815/210 Mershon Auditorium	085497	010000	90,000.00
Project 3155AR-Townsend Hall	085498	010000	40,460.00
Project 3173-Newark Walkway	085499	010971	68,500.00
Project 3271-Smith Lab	085500	010000	40,490.00
Mendenhall Renovation	085501	010000	200,000.00
Project 3258/4138-Smith Lab	085502	010000	118,705.00
Project 3213/622 Biological Sciences	085503	010000	42,928.00
Project 3141 AR-Lincoln Tower	085504	010000	90,000.00
Project 3248/287 Scott Hall	085505	010000	51,090.00
Project 3153-St John Arena	085510	016019	239,850.00
Eminent Scholar-Microbiology Project	085515	010000	52,000.00
Proj 3251-Marion Campus Greenhouse	085516	010956	100,000.00
Project 3192/AR Sisson Hall	085518	010000	<u>38,870.00</u>

Total Remodeling and Renovation

7,944,956.71

Renewal and Replacement Funds -
Repairs and Replacements

Mershon Equipment Reserve	086903	011092	24,494.00
Admissions-Equipment Reserve	086904	010000	1,560.00
Business & Admin Equipment Reserve	086905	010000	3,000.00
University Systems Equipment Resrv	086906	014033	(34,380.50)
Business Management Equipment Reserve	086907	010000	85,000.00
Physical Facility Equipment Reserve	086909	010000	(39,132.96)
Police Equipment Reserve	086910	010000	85,000.00
Traffic & Parking Equipment Reserve	086911	016007	281,575.00
Food Facility Equipment Reserve	086912	014006	25,700.00

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

<u>Account Description</u>	<u>Account Number</u>	<u>Transfer From A/C Number</u>	<u>Amount</u>
<u>Renewal and Replacement Funds -</u>			
<u>Repairs and Replacements - Continued</u>			
Stores Equipment Reserve	086913	014001	10,000.00
Laundry Equipment Reserve	086914	014004	65,000.00
Equipment Repair Reserve	086915	014003	20,000.00
Printing Facility Equipment Reserve	086916	014002	200,000.00
Bookstore Equipment Reserve	086918	016003	300,000.00
Telephone Equipment Reserve	086919	014007	1,000,000.00
Physical Facility Reserve	086920	010000	(40,555.00)
Physical Facility Reserve	086920	057118	(7,017.49)
Physical Facility Reserve	086920	057137	(7,496.06)
University Airport Reserve	086921	016014	130,000.00
Fire Prevention-Equipment Reserve	086923	010000	22,427.00
HC #1 Equipment Reserve	086924	016101	9,000.00
HC #2 Equipment Reserve	086925	016102	7,100.00
University Property Equipment Reserve	086926	016300	6,400.00
N Campus Apartment Equipment Reserve	086928	016390	2,700.00
Property Management Equipment Reserve	086929	016015	13,400.00
Univ. Property Improvement Reserve	086930	016300	16,000.00
Endowment Property Improvement Reserve	086931	016350	100,000.00
N Campus Apartment Improvement Reserve	086932	016390	9,400.00
HC #1 Improvement Reserve	086933	016101	14,500.00
HC #2 Improvement Reserve	086934	016102	50,400.00
Bookstore Improvement Reserve	086937	016003	106,000.00
Telecommunication Equipment Reserve	086938	010000	(56,865.00)
Telecommunication Equipment Reserve	086938	011064	100,000.00
Mail Service Equipment Reserve	086941	014027	24,200.00
Property Management Improvement Reserve	086942	016015	5,000.00
Stores Improvement Reserve	086943	014001	10,000.00
Center for Teaching Excellence Resrv	086945	010000	(15,000.00)
Accounts Payable Equipment Reserve	086954	010000	48,750.00
Laundry Improvement Reserve	086956	014004	15,000.00
Printing Facility Improvement Resrv	086957	014002	20,700.00
Dentistry Equipment Reserve	086961	010000	52,155.00
Ohio Union-Improvement Reserve	086963	016020	431,481.00
Transportation Reserve	086964	010000	99,832.82
NCRVE Equipment Reserve	086967	011077	12,239.88
Repographics Equipment Reserve	086969	014030	23,800.00
Public Safety Equipment Reserve	086971	010000	5,830.00
Air Transport Service Reserve	086976	014029	(225,000.00)
Univ. Budget Equipment Reserve	086980	010000	30,000.00
Recreation/Intramural Equip Reserve	086984	010000	47,000.00
Recreation/Intramural Equip Reserve	086984	011454	6,000.00
Recreation/Intramural Equip Reserve	086984	011498	4,000.00

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

<u>Account Description</u>	<u>Account Number</u>	<u>Transfer From A/C Number</u>	<u>Amount</u>
<u>Renewal and Replacement Funds -</u>			
<u>Repairs and Replacements - Continued</u>			
Student Affairs-Equipment Reserve	086985	010000	57,753.00
Student Affairs-Equipment Reserve	086985	016020	(10,407.00)
Cattle Blood Testing	086989	011006	(50,000.00)
University Systems Equipment Reserve	086990	014033	(130,000.00)
University College Equipment Reserve	086992	010000	25,000.00
Univ. Hospital Capital Equipment	086995	010060	(576,892.20)
Univ. Hospital Capital Equipment	086995	010063	(2,302,798.20)
Univ. Hospital Capital Equipment	086995	019000	11,673,363.85
Univ. Hospital Capital Equipment	086995	033387	2,200.00
Univ. Hospital Capital Equipment	086995	050538	<u>(9,823.50)</u>
Total Repairs and Replacements			<u>\$11,777,593.64</u>
Total Transfers to Renewal and Replacement Funds			<u>\$19,722,550.35</u> =====
<u>Retirement of Indebtedness</u>			
Bond Redemption - HC #3	087005	017300	67.57
1985A Bonds Debt Service	087023	010067	5,932.50
1985B Bonds Debt Service	087024	010060	160,670.82
1986B Bonds Debt Service	087028	010063	120,634.88
1986A Bonds Debt Service	087029	010063	<u>23,937.36</u>
Total Transfers to Retirement of Indebtedness			<u>\$ 311,243.13</u> =====
Total Transfers to Plant Funds			<u>\$18,153,779.12</u> =====
Grand Total Non-Mandatory Transfers From Current Funds			<u>\$19,177,218.48</u> =====

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.

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**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.

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**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.

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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.

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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
Secretary

Leonard J. Immke
Chairman

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.

Ilsedore M. Edse Distinguished Service Award

For over 30 years, associate professor Ilsedore 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. Koenigsnecht

Doctor of Musical Arts

John Douglas Fry, Mansfield; B.M., M.M. (Cleveland Institute of Music); *Music*
Dr. Sylvia Zaremba

Doctor of Philosophy

Mahmoud Hammam Abdel-Latif, Cairo, Egypt; B.F.A., M.F.A. (Helwan University); M.A. (The University of Kansas); *Theatre*
Dr. George Crepeau

Zamel Abbass Abuzinada, Saudi Arabia; B.A. (King Saud University); M.A. (University of Denver); *Communication*
Dr. Thomas McCain

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. Riad Ajami

George Olalaye Odewale Akintonde, Ikeja, Nigeria; B.A. (Northeastern Illinois University); M.S. (Embry-Riddle Aeronautical University); *Education*
Dr. Aaron Miller

Ramble Osbert Ankumah, Shama, Ghana; B.S. (Cape Coast University); M.S. (McGill University); *Agronomy*
Dr. W. A. Dick

Gilberto Aristizabal, Cali, Colombia; B.A. (National University); M.S. (University of Wisconsin at Madison); *Agricultural Economics and Rural Sociology*
Dr. William Flinn

Harold Wayne Arnett, St. Joseph, MO; B.S., M.S. (Murray State University); *Education*
Dr. E. Keith Blankenbaker

Sunetary Chanapai Berlin, Thailand; B.A. (Ursuline College); M.S. (Kent State University); *Chemistry*
Dr. Derek Horton

William Kingsley Bertin, Columbus; B.S. (Trinity University); *Chemistry*
Dr. Derek Horton

Melissa Wells Bixler, Marion; B.S. (Kent State University); M.A.; *Health, Physical Education and Recreation*
Dr. Mary K. Beyrer

Jin-Hwan Borm, Seoul, South Korea; B.S. (Seoul National University); M.S.; *Mechanical Engineering*
Dr. C. H. Menq

Rebecca Jane Boyd, Bluefield, WV; B.S. (Bluefield State Teacher's College); M.A.; *Education*
Dr. Anthony Olinzock, Dr. Otto Santos

Andrew Michael Calabrese, Columbus; B.A. (Denison University); M.A.; *Communication*
Dr. Brenda Dervin

Nicholas W. Calderone, Columbus; B.A., B.S., M.S.; *Entomology*
Dr. David L. Denlinger

John Richard Carruthers, Canal Winchester; B.A. (Park College); M.S. (Central Michigan University); *Education*
Dr. William Dowling

Celso De Castro Filho, Londrina, Brazil; B.S. (ESALQ-Piracicolor); M.S.; *Agronomy*
Dr. Terry Logan

Tai-Wai David Chan, Hong Kong; B.A. (The International Christian University); M.S.; *Chemical Engineering*
Dr. J. L. Lee

Kanjana Chansa-ngavej, Bangkok, Thailand; B.Sc. (The University of Tasmania); M.Sc. (The University of New South Wales); *Botany*
Dr. V. Raghavan

Hong-Chei Chen, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); *Chemistry*
Dr. Heinz Floss

Hsiu-Ho Chen, Taipei, Taiwan, R.O.C.; B.S. (Taipei Medical College); M.S. (National Defense Medical Center); *Pharmacy*
Dr. Robert W. Brueggemeier

Kan Chen, Shouning, P.R.C.; B.S. (University of Science and Technology of China); *Physics*
Dr. C. Jayaprakash

Yun-Shiow Chen, Taipei, Taiwan, R.O.C.; B.S. (National Tsing-Hua University, Taiwan); *Statistics*
Dr. Douglas Wolfe

Margaret Lee Clark, Reno, NV; B.A. (University of the Pacific); M.A. (University of San Diego); *Political Science*
Dr. Chadwick F. Alger

Arthur M. Cohn, Dayton; B.A. (Queen's College); M.S.W. (New York University); *Social Work*
Dr. Beverly Toomey

Debra S. Cohn, Muscatine, IA; B.A. (Drake University); M.S.W. (Washington University); *Social Work*
Dr. Keith M. Kilty

Roy Baker Crawford, Matawan, NJ; B.S.Ed., M.A.; *Health, Physical Education and Recreation*
Dr. R. Corey Bates

Steven Jay Cuvelier, Grove City; B.S. (Iowa State University); M.A. (The University of Northern Iowa); *Sociology*
Dr. Simon Dmitz

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. Mansel Blackford

Barbara Maria Doerr, Dayton; B.S. (Xavier University); M.S. (Wright State University); M.S.; *Physiology*
Dr. J. A. Grossie

Theodore Nicolas Dracopoulos, Athens, Greece; B.S. (Embry-Riddle Aeronautical University); M.S. (The University of Michigan); *Aeronautical and Astronautical Engineering*
Dr. Hayrani Oz

Patrick William Dunne, Toronto, Ontario, Canada; B.A., M.A. (York University); M.S. *Microbiology*
Dr. B. Oakley

Gulbin M. Dural, Ankara, Turkey; B.S., M.S. (Middle East Technical University); *Electrical Engineering*
Dr. D. L. Moffatt

Godwin Chukwunye Dura, Nigeria; B.A. (University of Dallas); M.A. (Morgan State University); *Agricultural Economics and Rural Sociology*
Dr. Martin F. Kenney

Francis Olayemi Eguaroje, Bendel, Nigeria; B.A.(Hons) (University of Ife); M.A. (University of South Carolina, Columbia); *Art Education*
Dr. Kenneth A. Marantz

Margaret Mary Elgas, Columbus; B.A. (Lewis University); M.Ed. (University of Illinois); *Home Economics*
Dr. Rebecca Kantor

Cheryl Anita Evans, Columbus; B.A. (Fisk University); M.A.; *Psychology*
Dr. Felicisima C. Serafica

Jyh-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 Jones Sears

Gail Eileen Foreman, Columbia, SC; B.S. (The University of South Carolina); *Zoology*
Dr. Thomas C. Grubb

- Patricia Gay Fornash**, Hyden, KY; B.A. (Georgetown College); M.S. (University of Kentucky); *Vocational Education, Comprehensive Program*
Dr. Dewey A. Adams
- Robert Peter Fynn**, 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. (Rensselaer Polytechnic Institute); M.A.; *Physics*
Dr. A. J. Epstein
- Mark William Glogowski**, Mansfield; B.A. (Case Western Reserve University); *Chemistry*
Dr. Daryle 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
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- 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 Pathobiology*
- 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 Zimmerly**, 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 Mijic**, 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

College of the Arts

Dean: Donald Harris

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Harcourt, Nigeria
Erin Ann Ackdoe, 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 Weise, Youngstown

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Mary Cathleen Barnes, Upper Sandusky
Mary Beth Branham-Butler, Plain City
Kate Cushman, Rochester, NY
Kevin Patrick Dorenkott, Fairview Park
Tamara Sue Gilman, Wyoming
Richard Peter Jacobs, Tiffin
Ellen Diane Kidd, Tiffin
Maureen Ellen Kinnear, Columbus
David Sang Lee, Brecksville
Jack Neiberlein, Jr., Parma
Lisa Marie Olmstead, Mt. Vernon
Diane Lynn Sadosky, North Canton
Jo H. Teschner-Caruzzi, Columbus
Joni Lynn Wood, Fairborn

Bachelor of Music

David J. Friedlander, Cleveland
Daniel Paul May, Columbus

Bachelor of Art Education¹

Sandra Hughes Aska, Columbus

Bachelor of Art Education²

Stanley Bruce Cain II, Mansfield
Saundra Lynn Myers, Columbus
Bienda Ciccone Steller, Columbus
Julie Ann Trocchia, Worthington
Theresa Ann Troy, Columbus

Bachelor of Music Education²

Patricia Anne Del Ciello, Columbus
Emilie Dawn Weiler, Grove City

College of Biological Sciences

Dean: William A. Jensen

Bachelor of Arts

Jill Elizabeth Staver, Lima

Bachelor of Science

Nicole Lee Angel, Houma, LA
David L. Armstrong, Jr., Versailles
Carolyn Dawn Bohmer, Tipp City
Daniel John Cleary, Niles
Joseph Edward Curran, Westerville
Lisa Marie DiPinto, Cleveland
Michael Francis Fusko, Canton
Molly Ann Giere, Coldwater
Michael Andrew Grouse, Cincinnati
Mary Elizabeth Honse, Bluffton
Jill Stephanie Hutton, Columbus
Susan Yuri Ishiyama, Parma
Kent Allen Joseph, Zanesville
Stephanie Elaine Miller, Grove City
Sean Douglas Mulroy, 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

College of Humanities

Dean: G. Micheal Riley

Bachelor of Arts

Madeline Spencer Acton, Bexley
Doris Ann Ahting, Cincinnati

¹Offered by the College of the Arts
²Offered by the College of the Arts and the College of
Education

Jessica Ann Baggett, Dayton
Brenda Kay Bob, Columbus
Shawn Ray Butz, Mt. Sterling
Craig Alan Canaday, Orient
James Frederick Crates, Findlay
Mary Giselle Decker, Cincinnati
Frederick Louis De Naples, Waynesville
Pamela Claire DeWitt, Mansfield
Lisa Renée DiGiacomo, Wooster
Brent Allan Feldman, Columbus
Lisa Marie Fife, Columbus
Margot Jill Frieder, Cincinnati
Jill Annette Frye, Mount Vernon
Cynthia Kay Gill, Columbus
Charles Joseph Goodburn, Columbus
Judith Clare Gorjanc, Mentor
Robert James Grogan, Jr., Columbus
Thomas Edwin Hemstock, Seattle, WA
Cathy Jo Hickman, Elida
Patrick Joseph Higgins, Columbus
Raymond Dye Irwin, Marysville
Laura Beth Jones, Columbus
Laura Christine Joondeph, Akron
Richard Maxim Kuninger, Newark
Patricia Ann Kunzen, Columbus
Jacqueline Marie Labbe, Medina
Christopher Louis Lang, Holland
Clayton Richard Luckie II, Dayton
Kelly Ann McCalla, Columbus
Carol Lynne Mitchell, Columbus
Melinda Marie Moore, Columbus
Pamela C. Parisi, Cleveland
Michael David Paton, Kent
Rhonda Evelyn Robb, Williamsport, PA
Beth Ellen Rucker, Granville
Renee Ellen Russell, Olmsted Township
Andreas Ferdinand Schueler,
Youngstown
Wesley David Shank, Columbus
Richard Keith Simms, Worthington
Kate Elizabeth Sommers, West Union
Michelle E. Steele, Delaware
Rebecca Lynn Test, Oneonta, NY
Timothy Frederic Thompson, Columbus
Patrick Allen Thornton, Marysville
Ann Melissa Tiernan, Solon
John Matthew Todd, Mansfield
Lewis Warner Wexler, Bexley
Howard Vernon Withrow, West Chester
Nils Barthel Wolfcale, Canfield

College of Mathematical and Physical Sciences

Dean: C. William Kern

Bachelor of Arts

William Kerr Gibson, Columbus
Christopher John Hassmann, Mansfield
Suzanne Marie Holm, Dublin
Kenneth Nicholas Jaryga, Orange Village
Pauline Rae Kan, Mogadore
Anette Lai-Kuan Lam, Kuala Lumpur,
Malaysia
Angela Yvette Ortiz, Buffalo, NY

Bachelor of Science

Scott Kenneth Ackers, Columbus
Dylan Eugene Barrett, Columbus
Ralph Edward Bentley, Plantation, FL
Cheryl Ann Bihn, Perrysburg
Brian John Carroll, Toledo
Richard James Elliot, Columbus
John Mark Gutman, Cincinnati
Joseph Anthony Mamone, Cleveland
Mark Christian McClure, Bexley
Raymond Robert Moreno, Columbus
James Gerard Palte, Glandorf
Joel F. Salas, Lorain
Barbara Lynn Schummer, Columbus
Michael David Stoner, Burke, VA
Bruce Matthew Tuttle, Fredericktown
William Paul Wallace, Olmsted Falls
Jason Wendelin Weisgerber, Worthington
Kent Sherwood Whiting, Columbus
James Ray Wirtley, Seven Mile

College of Social and Behavioral Sciences

Dean: Joan Huber

Bachelor of Arts

Alicia Neville Akin, Cincinnati
Sven Erik Anderson, Columbus
Timothy Scott Anderson, Meeker
Leslie Carol Ayers, Paris, KY
David Alan Baas, Columbus
Julie Marie Baris, Cincinnati
Ellen Prine Barney, Hillsboro
Ian Carter Bates, Gates Mills
Michael Joseph Behm, Marion
Patricia Susan Benkowski, Worthington
Mary Catherine Betts, Columbus
Paul Gilles Binette, Columbus
Christopher Joseph Boerger, Columbus
Amy Lynn Bowling, Heath
David Lawrence Brail, Bainbridge
Michele Rae Brocius, Youngstown
Tammi Renée Brooks, Ashland
Greg S. Brown, Tipp City
Jeffrey John Burke, Brookpark
Susan Diane Capaldo, Bedford
Leanne Marie Carter, St. Paul, MN
Craig Alan Chubb, Findlay
John Carroll Cleek, Columbus
Jennifer L. Clement, Worthington
John Stuart Cohen, Columbus
Marshall Dean Cohen, Columbus
Kathleen Mary Cohill, Columbus
Cynthia Sue Conn, Pataskala
Brendan Timothy Connair, Kettering
John Michael Couri, Columbus
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Renea Elaine Dowdy, Columbus
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Stephen Anthony Duffett, Shaker Heights

Carl Raymond Dumke, Fairborn
Samuel Elison, Toledo
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Cheryl Lynn Fegley, Marion
Jeffrey James Ferguson, Chagrin Falls
Kevin P. Foley, Youngstown
Anthony Lyle Foust, Elida
Matthew Howard Frantz, Cincinnati
Debra Therese Freathy, Columbus
Judith Elaine Freppon, Cincinnati
Joanne Kristine Fry, Columbus
Angela Fung, Hong Kong
Lori Lynn George, Mount Vernon
Valerie Lynn Granchi, Akron
Robert Patrick Greer, Columbus
Michele Lynn Hackett, Columbus
Tracey JoAnne Hall, Cleveland Heights
John Philip Hamilton, Jr., Westerville
Lori Kathleen Hamilton, Canal Fulton
Timothy Joseph Hayden, Whitefish Bay, WI
Christopher Scott Hedrick, Columbus
Paula Jean Higgins, Columbus
Craig Reese Hildreth, Grove City
Steven Thomas Hill, Heath
Linda Ellen Hilsheimer, Rittman
Mark L. Honsaker, Warren
Andrew Lawrence Huneck, Columbus
Todd Allen Hunter, Columbus
Julie Anne Hurd, Kent
Marianne Hyland, Worthington
Brandon Stuart Jackson, Shaker Heights
Jay Brennan Johnson, Macedonia
Tamara Lynn Jones, Worthington
Stephen Anthony Jun, Toledo
Michael Joseph Kasun, Columbus
Kenneth Michael Kaufman, Bellaire
Michael Thomas Kearney, Cincinnati
Sallie Ann Keith, Youngstown
Paul David Kelley, Medina
John Jeffrey Kifer, Westerville
Thomas Joseph King, Upper Arlington
Anna M. Koldys, New Orleans, LA
Katherine Ann Krizovski, Barberton
Hans Charles Kuenzel, Avon Lake
Bonnie Jean Ladina, Mentor
Kenneth Martin Lasure, Louisville
Lauri Ann Laurita, Lima
SueEllen Liesak, Oxford, CT
Andrea Kay Lindsey, Miamisburg
Thomas Andrew Lorenz, Upper Arlington
Constance Sue Louthen, Reynoldsburg
Karen Irene Mantell, Jefferson
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Kenrick Brooke McConnell, Lockport, IL
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Michele Ann Melaragno, Grandview Heights
Sean Allen Michalski, Pepper Pike
Anthony Bryant-Thomas Milburn, Columbus
Mary Christine Montenaro, Columbus
Marc Montgomery Moody, Newark
Deborah Jean Morford, Williamsfield
Lance Allworth Morrison, Hubbard

Gwynn Eric Mosher, Richwood
Cigarette Moskovitz, Bexley
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Troy Allen Nelson, West Chester
Michele L. Oravec, Westerville
Andrew Steven Palka, Columbus
Jeffrey Michael Palmer, Upper Arlington
Cynthia Ann Palur, Northfield
Johanna Marie Passalinqua, Tallmadge
Marlene Beth Pavlofsky, Dayton
Kenneth Lewis Payne, Columbus
Lloyd Lawrence Pfahler II, North Olmsted
Brian Scott Pfeffer, Ripley
Jodi Ann Pinney, Lima
Amy Elizabeth Poston, Columbus
Gwendolyn Mae Quimby, Waterford
Janice Ann Rehard, West Lafayette
Lisa Marie Rhees, Columbus
Sarah Therese Rindfleisch, Worthington
Lauren Norris Roark, Plain Dealing, LA
James Scott Rodney, Lawrenceville, NJ
Dawn Marie Rogier, Risingsun
Terri Lynn Rollins, Columbus
David Micheal Rose, Columbus
Anthony Joseph Ruvalo, Jr., Corning, NY
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Sarah Hart Ryan, Willoughby
Jessica Leigh Salyers, Powell
Sheila Ann Santoro, Solon
Sherry Ann Schlater, Worthington
Karen Lynn Schrader, Barberton
Karin Schroth, Middletown
Penny Lynn Schultz, Delaware
David Scot Seech, Columbus
Jeffrey Alan Shapiro, Cleveland
Jane Ann Sheplavy, Eastlake
Joseph Dean Short, Archbold
Cathleen Marie Sikora, Mentor
Richard Jay Sillman, Columbus
Mary Ellen Simmons, Westerville
Peter Joseph Slyman, Springfield
Nancy Ann Smole-Dunham, Wadsworth
Tiffany Ann Speir, Columbus
Sandra R. Stout, Marion
David Allen Strause, Upper Arlington
Kelly Page Strickling, Dublin
Jill Anne Stueve, Dayton
Susan Jeanne Swartz, Batavia, NY
Susan Marie Tiberi, Dublin
Michael John Trueman, Columbus
Stephen Bruce Tyson, Columbus
Michael Dean Vanecko, Columbus
Timothy Lee Villies, Steubenville
Christopher John Vogt, Canton
George Gregory Wagner, Middletown
Jean M. Webner, Columbus
Scott H. Weisman, Bexley
Nancy Jean Williams, Niles
Tracy Randall Williams, Columbus
Lynne Ann Wilson, East Liverpool
Matthew Warren Wirth, Columbus
David Gerard Zadnik, Columbus
Robert Gerald Zamary, Jr., Struthers

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 Richard Killinger, Uniontown, PA
Lisa Marlene Koski, Huron
David Alan Kraemer, Columbus
Karol Elaine Massey, Grove City
Kevin S. O'Brien, Worthington
Dawn Michele Parker, Champion
John A. Savolaine, Sylvania
Christie Gail Smith, Worthington
John Stephen Wolfenberger, Tuscola, IL

School of Journalism

Bachelor of Arts in Journalism

Karis Lynn Andrews, Chillicothe
Spiros L. Bakeris, Warren
Scott Michael Bayne, Columbus
Karen Kimberly Bird, Highland Heights
Barbara L. Bohmer, Canton
John Robert Borrows, 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 Claggett, Issaquah, WA
Nicole Gentit 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. Gormas, Columbus
Eric Ray Guenther, Dayton
Jill Lynne Gwin, Columbus
Patricia Ann Harden, Circleville
Kelly Michele Harper, Reynoldsburg
Cole E. Hatcher, Bucyrus
Rebecca Rae Hessel, 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
Tamera Lee Kaufman, Worthington
Jon Michael King, Springfield
Karen Christine King, Steubenville

Stephen Doug Kisor, Reynoldsburg
Betsy Kristin Lee, Beaver Creek
Elizabeth Anne Lee, Columbus
Howard Steven Lerman, Williamsville, NY
Lynne Marie Machovina, North Ridgeville
Sandra Ursula Matarrese, Upper Arlington
Andrea Dawn McClarren, 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 Sas, Lorain
David Joseph Sereno, Stow
Susanne Marie Sharp, Worthington
Becky 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
Michele Anna Vrooman, North Ridgeville
Jean Leslie Wakefield, Columbus
Kevin Ray Walter, Fremont
Matthew Hamilton Welch, Perrysburg
Cathleen Marie Wimmers, Bellbrook
Todd Clinton Wirick, 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 Begg, Bluffton
James Edward Beucler, Bryan
Diana Jean Canaday, Columbus
Andrea Marie Chech Fee, Columbus
Daniel Shawn Domigan, Urbana
Andrew Mark Gallagher, Loveland
David Allen Garringer, Jamestown
Dwayne Mark Gauck, Cincinnati
Andrew William Grace, Johnstown
Elizabeth Mary Gress, Columbus
Laurie Jane Griffin, Columbus
John Thomas Harbauer, Perrysburg
Dave Andrew Harper, Loveland
Thomas Dean Hart, Warren
Mark William Hesse, Cincinnati
Timothy Lynn Howser, Georgetown
Lorenzo W. Jara, Springfield
Daniel Jay Jennings, Perrysburg
Pamela Irene Johnson, Gahanna
Christine Marie Kahoun, Timberlake
Benjamin Dean Kasler, Amesville

Gregory John Koller, Chardon
Daniel Paul Krupa, Wexford, PA
Laura J. Kujawa, Sylvania
John Mawisy Lesotho, Columbus
Aaron Frazier Locker, Anna
Robert Michael Lyons, Cumberland
Haydar Hassan Miari, Columbus
Deborah Lynn Miller, Hilliard
Tracy 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 Sayers, Columbus
Robert Kirk Scott, Millford Center
Derek Fitzgerald Sheppard, Newcomerstown
Robert Alton Shugert, Lore City
Gary Evan Smallsreed, Newton Falls
Royden Hiram Smith, Monroeville
Jeffrey Scott Spangler, Columbus
Peter William Stacey, Cincinnati
Danielle Jodi Stearns, Bowling Green
Brian Blaine Taylor, Columbus
Charles Ivan Ulrich, Delaware
Scott Vaughan Upton, Reedsville
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 Miesle, Cincinnati
Michael Dick Runbaugh, Lima

School of Natural Resources

Bachelor of Science in Natural Resources

David Alexander Campbell, Worthington
Tomas Paul Davenport, Spencer
Brittite Irene Helfrich, Washington Court House
Andrew Gordon Hyde, Chagrin Falls
Constance Sue Kick, Loudonville
Luke William Lines, Worthington
Leobardo Martinez, La Feria, TX
Ava Marie McVey, Conesville
Michael Edward Pitts, Elyria
Joel Richard Plott, Findlay
April D. Tibbles, Bexley
Philip Charles White, Piqua

Agricultural Technical Institute - Wooster

Associate in Applied Science

Robert Henry Boeckermann, Cincinnati
Diane Therese Brodnick, Mentor
Bryan Dale Cooper, Tiffin
Hazel Sharlene Davidson, Uniontown
Paul Michael Dietzel, Mayfield Heights
Lora Christine Goerlich, Toledo
Robert Paul Haney, Tippecanoe
Brian Evan Heiser, Amanda
Thomas Lee Lands, Beaver
Amy Elizabeth Lebold, Apple Creek
Catherine Jane McGilton, 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 Wigington, 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 Adumati, 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 Ashby, North Canton
Christopher Lee Babcock, Batavia
Jan E. Bair, Fredericktown
Amy Lynne Barber, Newark
Shelley Lynn Barnes, Alliance
Lawrence Raymond Barnett, Rye, NY
Shanta Monica Barua, Worthington
Kevin Eldon Beers, Marion
James Joseph Benson, Columbus
Mark Steven Birnrich, Columbus
Elizabeth Ann Black, Dayton
D. Allen Blankenship, Fredericktown
Katherine Ann Bolen, Columbus
Bradley Charles Bond, Mansfield
John Harris Bosko, Johnstown
Michael Clarence Bossetti, Sandusky
Linda Ann Botts, Buffalo, NY
Jeffrey C. 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 Ray Butz, Mt. Sterling
Jon Douglas Cannon, Mentor
Jamie Christopher Carey, Columbus

Stephen T. Carey, Galloway
Andrea Lynn Carpenter, Columbus
Emmanuel Aguila Castillo, Columbus
Kevin Charlebois, Youngstown
Thomas Vincent Chickerella, Westerville
Mark Alan Chisling, Beachwood
Angelos Damon Christon, Dayton
Andrea Marie Clapp, Powell
Martha Morgan Clegg, Greensboro, NC
Thomas Walton Clinger, Marion
John Douglas Consilio, Akron
David Edward Côté, North Ridgeville
Drew Edward Craig, Scio
Thomas Avery Culver, Columbus
Michael Scott Cummins, Columbus
Michael Patrick Cusack, Beavercreek
William James Damko, Sandusky
Carolyn Jennifer Dankowski, Avon Lake
Karen Alice Davis, Columbus
David William Day, Columbus
Kenneth Mitchell Deminski, Elyria
Brian Scott Dengler, Parma
John Briggs DeVennish, Columbus
R. Todd Dewberry, Beavercreek
Robert DiPangrazio, Columbus
Troy L. Dixon, Toledo
Joseph Anthony Dollries, Cincinnati
Bradd Allen Donovan, Wapakoneta
David Franklin Dopkiss, 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 Fallidas, 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
Gretchen Louise Gfeil, Norwalk
Scott Allen Gibbs, East Liverpool
James V. Gingo, Stow
Cynthia Joan Glockner, Portsmouth
Pamela J. Goerler, Columbus
Jeffrey D. Goliver, Lima
Kenton Lee Gorman, Mason
Robert Augustus Grace, Cleveland Heights
Kimberly Anne Gray, Westerville
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Ahmad Imad Habbal, Columbus
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David Allen Hater, Cincinnati
Melony May Hathaway, Columbus

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John Andrew Havel, Broadview Heights
Christopher John Heidorf, 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 Houltor, Worthington
James Alan Huber, Lyndhurst
James Richard Hufford, Fremont
Rebecca J. Imes, Bexley
Ismail Mahmoud Ismail, Worthington
Jeffrey Peter Jaeger, Holley, NY
Joseph Janowiecki, Toledo
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 Keller, Worthington
Shelly Marie Kern, Elida
Barry 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
Lonnje J. Klosterman, Kettering
Kevin Joseph Knebel, Delphos
Kerry S. Koch, Worthington
Anna M. Koldys, New Orleans, LA
Lisa M. Kost, Columbus
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Freida M. Krajnyk, Parma
Edward Scott Kramer, Broadview Heights
James Patrick Kuster, Columbus
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Christopher John Lachowyn, North Palm Beach, FL
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Anette Lai-Kuan Lam, Kuala Lumpur, Malaysia
Susan Adine Lang, Cincinnati
Geoff Bryan Langermeier, Rocky River
Scott Michael Latsa, Westlake
Jeffrey Scott Lawlor, Toronto
Loren D. Lazarony, Columbus
David R. Leach, Columbus
Diana Ling, Dayton
Kenneth William Lippincott, Cincinnati
Kevin John Lisko, Columbus
Michael Jay Littman, Bexley
Bee Hoon Loh, Georgetown, Penang, Malaysia
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Michael Anthony LoSchiavo, Medina
George Michael Luke, Adena
Laurel Ann Lutz, Columbus
Gary Lee Mabrey, Jr., Kenton
Martin Joseph Maliwesky, Canton
Catherine G. Marinella, Mansfield

Marla Denise 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 Salvador, El Salvador
 Patricia Irene Medley, Columbus
 James Joseph Merk, Lancaster
 Andrew Scoville Merrels, Jr., Maumee
 Robert Allen Metzger, Macedonia
 Denise Marie Meyer, Massillon
 Robin Renee Miko, Dayton
 David Lyman Milheim, Salem
 Karen Anne Miller, Columbus
 Michelle A. Miller, Shiloh
 Anthony Rae Monaco, Toledo
 Garry Dale Moon, Columbus
 Thomas C. Moosavian, Akron
 Thomas Brock Morehouse, Peninsula
 Darren Keith Morgan, Frazesburg
 Robyn Jane Morgan, Columbus
 William Scott Morris, Stow
 Rebecca Sue Mrkva, Canal Winchester
 Ellen P. Murtha, Columbus
 Dennis Michael Nagy, Warren
 David James Neruda, Columbus
 Stephanie A. Nickolas, Canton
 Jill Marie Nourie, Cincinnati
 Steven Michael Ottiger, Navarre
 Elizabeth Palmer-Spilker, Powell
 Hsiang Hsi Pan, Cincinnati
 Abhay Kumar Pania, Strongsville
 Leslie Paolucci, Knoxville, TN
 Jeffery L. Pearson, Morton Grove, IL
 Timothy S. Pezzot, Worthington
 Kelly Watson Phipps, Sharonville
 Laura Christine Davis Phipps, Richwood
 Lori Leann Pinkerton, Pickerington
 Lynda K. Pissocra, Dover
 Shauna Marie Postalakis, Columbus
 Susan Jane Pound, Columbus
 Brent M. Pruetz, Cincinnati
 Marnie Lynn Randall, Youngstown
 Scott Micheal Renda, Columbus
 Christopher John Rezek, Boardman
 Jean Elizabeth Rhoads, Circleville
 Ann Elizabeth Richard, Port Clinton
 Douglas Warner Ridgway, Kettering
 Charlene Michele Robinson, Columbus
 Dana Ann Rodriguez, Mansfield
 Douglas Carl Roesch, Galion
 Elena Rokhlin, Columbus
 Robyn René Rutan, Columbus
 Pamela Sue Salvage, Coshocton
 O'Neal Saunders, Columbus
 John Joseph Scanlon, Cincinnati
 Robert Richard Schaeffer, Westerville
 Lisa Joanne Schechter, Columbus
 Karl Henry Schetz, New Middletown
 Gregory Joseph Schick, East Brunswick, NJ

Kurt Von Schmitter, Logan
 Brian Carl Scianamblo, Centerville
 Rose Mary Sconciafurno, Columbus
 Jon Wayne Scott, Columbus
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 W. Andrew Secrest, Delaware
 Carl Jeffrey Sengelmann, Columbus
 Sherry Lynn Settle, Mexico, MO
 Carolyn Anne Shaeffer, Columbus
 Timothy Chester Sheets, Dublin
 Katherine Morgan Foster Shoemaker, Youngstown
 David Louis Skidmore, Columbus
 K. Michelle Slemmons, Bellefontaine
 Martin Phipps Sloan, Kettering
 Lee R. Slotnik, Akron
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 Jennifer Joy Sommer, Minster
 Thomas William Spahn, Maineville
 Patricia K. Spahr, Findlay
 Rodney Lee Squires, Fredericktown
 Mark Robert Stechschiulte, Kalida
 Heidi Ann Stevens, St. Marys
 Kevin Michael Stock, Columbus
 Thomas Joseph Stoker, Columbus
 Douglas Lester Stone, Kenton
 Pamela Ann Stout, Upper Arlington
 Michael Joseph Swick, Delphos
 Douglas Edward Sypniewski, Cincinnati
 Tana Tanarusachock, Bangkok, Thailand
 Janet Lynn Taylor, Kenton
 Matthew John Theiler, Toledo
 Christopher John Thesing, Columbia, MD
 Clare Edwin Thomas, Jr., Brook Park
 Christopher Morgan Thomas, Dayton
 John H. Toppari, Worthington
 Jolygon S. Torrance, Oakwood
 Paul J. Valvoda, Bainbridge
 Christopher Allen Villwock, Strongsville
 Kevin R. Vincent, Middletown
 Kenneth Edward Voris, Lancaster
 Scott Allen Wade, Columbus
 Lora J. Wallace, Prospect
 Charles G. Warner, Columbus
 Paul G. Warner, Akron
 Douglas Duane Warns, Bellevue
 Barbara Jean Warthen, Rockford, IL
 Tze-Wei Alicia Wee, Singapore, Singapore
 Molly Lynn Wiegerrig, Columbus
 Stephen Galen Will, Columbus
 Kimberly S. Willis, Kettering
 Kathleen Ann Willke, Columbus
 Victoria Ann Wise, Worthington
 Keena Noelle Wolford, Nashport
 Yunsoo Won, Old Bridge, NJ
 Tatt Keat Yap, Kedah, Malaysia
 Glinda Gail Young, Marion
 Jonathan H. Young, Columbus

College of Dentistry

Dean: William R. Wallace

Doctor of Dental Surgery

Eric D. Arias, Temple Terrace, FL
 B.S. (Spring Hill College)
 James Craig Birnbaum, 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, Kettering
 Denise Renee Bailenger, Columbus
 Douglas Allen 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 Bumgardner, West Jefferson
 J. Eric Bush, Edison
 Sharon Kay Byers, St. Marys
 David Michael Carlisle, Millersport
 Teri Beth Cohen, Cincinnati
 Robin Rene Crispin, Worthington
 Kathleen Susan Crunkilton, Butler
 Patrick William Cuthbert, Columbus
 Theresa Hopkins Dearing, Powell
 Michelle Dentillo, Lorain
 Vivian Eileen Dodson, Johnstown
 Rebecca Ann Durdle, Galion
 Jeanne Kathryn Duwwe, Toledo
 Larry Steven Farrell, Westchester
 Melina Galouzis, Campbell
 Thomas Coit Gilbert, Columbus
 Michael Louis Gilliland, Butler
 Jeanette Darlene Gladden, Columbus
 Timothy John Gouhin, Columbus
 Quinn P. Guist, Canton
 Jeffrey Steed Hallam, Columbus
 Rebecca Ann Hannah, Elida
 Paulette Diane Hartge, Shelby
 Lauri Lee Harvey, Loudonville
 Angella Lynn Heid, Anderson, IN
 Douglas Paul Heitfeld, Cincinnati
 Timothy Lawrence Hernon, Warren
 Jennifer Christine Hisnay, Wooster
 Shannon Rae Hodge, Middleburg
 Anita Marie Holloway, Mansfield
 Daniel Welty Hugos, Worthington
 Linda Kishishian, Westerville
 Allison Marie Klink, Westerville
 Ronald LeRoy Lance, Lakeville
 Darrell E. Lenox, Columbus
 Kathryn Sue Likens, Wooster
 Rebecca Lynn Lively, Dayton
 Linda Jane Lott, Lima
 Caryn Jaye Lowe, Columbus
 Larry Dale Marson, Scarborough, Ontario, Canada
 Kimberlene Ruth McCourt, Amherst
 Karen Leigh McCoy, Canton
 Gregory Scott Meadows, Columbus
 Terry Jones Mooney, Newark
 Margaret L. Moore, Columbus
 Lori Ellen Moyer, Champion
 Janelle Marie Nelson, Reynoldsburg

Kristine Carol Reedy, Gahanna
 Susan A. Rice, Fredericktown
 Mildred Louise Rife, Wharton
 Andrew Paul Ring, Woodsfield
 Bradley A. Ruffener, Bucyrus
 Joseph Lee Ruhl, Mt. Gilead
 Gregory Eugene Schwartz, Mansfield
 Mary Elizabeth Seeley-Irion, Galena
 Donna Lee Sharp, Mansfield
 Michael Anthony Sobota, Poland
 Carol Bruch Spare, Waldo
 Carla Rae Steele, Marysville
 Karen Leslie Stein, Rancho Santa Fe, CA
 Jerry Reid Stewart, Powell
 Ben Franklin Storer, Jr., Lima
 Gloria Warnetta Swarn, Mansfield
 Susan Marie Swishhelm, Columbus
 Ann E. Taylor, Lima
 Stephani Lynn Thallman, Attica
 John Matthew Todd, Mansfield
 Dennis Edward Trucks, Shelby
 Susan Elizabeth Tuck, Fairborn
 Ruth Edwards Wagner, Hillsboro
 Barbara J. Wakely, Marion
 Claudia Weinert, Ashland
 Kelliann Whitney, Columbus
 Elaine Lynette Willis, Columbus
 Catherine Diane Zarkos, Worthington

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

John William Cooper, Lancaster, PA
 Edwin Kelley Deming, Columbus
 Bryan Fraser, Parma
 Thao Quang Nguyen, Dayton
 Ronald Bruce Schofield, Zanesfield
 Evan William Xenakis, Severn, MD

Bachelor of Science in Agricultural Engineering

Lewis Thomas Balsizer, Fremont
 Charles John Hartmann, Willoughby Hills
 Marybeth Lima, New Bedford, MA
 Curtis Alan Nice, Norton
 Jeffrey Dean Pennington, Beaver

Bachelor of Science in Aviation

Mark Alan Boyd, Waverly
 Scott Alan Cline, Westerville
 Todd William Hartman, Euclid

Michael Joseph Veraldi, Newark
 Thomas Alphonse Wrobleski, Highland Heights

Bachelor of Science in Ceramic Engineering

Matthew Gerard Brewster, Willowick
 Richard Martin Emmert II, Zanesville
 Brian Heckel Johnson, Urbana
 Robert Craig Miller, East Sparta
 Robert Camden Rose, Jr., Akron
 Daniel Christopher Sherman, Mentor

Bachelor of Science in Chemical Engineering

Susan Nora Hanusz, 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 Civil 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
 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 Roch Schwarz, Medina
 Chin-Ghee Toh, Penang, Malaysia
 Daniel Alan Whalen, Columbus
 Russell Everett Wikel, Milan
 Michael Joseph Zuccherro, Kent

Bachelor of Science in Computer and Information Science

David Lee Adington, Batavia
 David Mitchell Bailey, Cadiz
 Jayne L. Brady
 Wafel Fayez Daaboul, Damascus, Syria
 Marwan Daboul, Damascus, Syria
 Andrew Ian Diamond, Amlin
 Patrick Joseph Finneran, Dublin
 Charles Joseph Hietter, Jr., Dublin
 Christopher Paul Johnson, El Paso, TX
 Joel Robert Kallman, Wadsworth
 Peter David Knopp, Columbus
 Vendy Lie, Jakarta, Indonesia

Peter Nguyen, Columbus
 Jeffrey David Oestreich, Raleigh, NC
 Valerie Elaine Owens, Massillon
 David James Peck, Uhrichsville
 Ken Sungsoo Pyo, Cleveland
 Scott Allan Reveit, Olmsted Township
 James D. Staschiak, Findlay
 Mohammad Usman Uppal, Lahore, Punjab, Pakistan

Bachelor of Science in Electrical Engineering

Jon Paul Alexander, Jerome
 James Ray Ayers, New Carlisle
 Ah Tee Beh, Tasek Glugor, Penang, Malaysia
 Robert J. Belisle, Worthington
 Zaka Ullah Bhatti, Karachi, Pakistan
 Mathew Alan Boesch, Bryan
 Arthur Bradley Brannaman, Middletown
 George Coe Campbell, High Bridge, NJ
 Hay Vang Doan, Warren
 Debora Louise Good, Ashtabula
 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 Mohacsi, Columbus
 Nirav Bharat Patel, Eastlake
 James Alfred Sears, Jr., Uniontown
 Mario Frank Stoffiere, Port Vue, PA
 Sin Guan Tan, Singapore, Singapore
 Gregory Wayne Taylor, Pomeroy
 Michael Clayton Tope, Dellroy
 Michael Allen Urig, Lancaster
 David Ernest Walder, Westerville
 Gregory Tyrone Weekley, East Liverpool
 Eric Edward Wilcox, Akron

Bachelor of Science in Engineering Physics

Mahammad Moh'd Adel Abu Ali, Jordan
 Todd Lee James, Dresden
 Mark Steven Jarzema, Seven Hills
 Eric John Krall, Columbus
 Kenneth John Myers, Whitesboro, NY
 Jay Emerson Novak, Kingsville
 Joseph Michael Weisenbach, Columbus

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
Fred John Cusimano, Akron
Larry Richard Daubenmire, Logan
Jeffrey Allen Davis, Ontario
Roger John Gatchell, Harpster
Thomas James Gieseke, Hilliard
Howard Christopher Gill, Newark
Glenn Scott Gmitter, Waterville
Ned Brian Heminger, Van Buren
Benjamin Franklin James IV, Sylvania
David Alan Johnson, Wadsworth
William Francis Marek, Shaker Heights
James Robert Meade, Cincinnati
Thomas W. Moody, Jr., Columbus
Julie Ann Nesbit, Sandusky
Bradley Edward Platin, Aurora
Brian Scott Samborsky, Pickerington
Allison Mary Wild Stahl, Frazeeburg
William Thomas Tolliver III, Columbus
Bryan David Tucker, Grove City
John Louis Volz, Jr., Dayton
Michelle Renee Ware, Cincinnati
Peter Thomas Whitehouse, Staten Island, NY
Edward Wayne Whitten, Macon, GA

Bachelor of Science in Metallurgical Engineering

Robert Bianco, Seven Hills
James Alan Dudash, Avon Lake
Craig Timothy Miller, Berlin

Bachelor of Science in Surveying

Kirk Fredric Adkins, Huntington, WV
Jon Dean Milesky, Harrison
Scott Alden Wielt, West Milford, NJ

Bachelor of Science in Welding Engineering

Stephen M. Bruno, Columbus
Michael Steven Flagg, South Windsor, CT
John F. Koepf, Columbus

School of Architecture

Bachelor of Science in Architecture

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 McCreery, 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 Carol Bentsen, Mansfield
Lynn Marie Boston, Neffs
Douglas Gerard Brennan, Dublin
Michael Andrew Brossman, Powell
Amy Sue Cook, Columbus
Lori Ann Cummins, Stow
Susan Michelle Curatti, Dublin
Patricia Ann Daniels, 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, Marietta
Jane Elizabeth Hawes, Norwalk
Karen Mariann Holtz, Columbus
Sarah Lou Jones, Columbus
Kelly Anne Klunk, Worthington
Lynn M. Kocik, Port Clinton
Laura Jane Lazor, Williamsfield
Monique Leemkuil, Pickerington
Robynn Lynn Long, Indianapolis, IN
Margaret Mary Lopez, Huron
Sarah Anthony Mathews, Worthington
Nancy Renee Mauger, Columbus
Beverly Elizabeth Meabon, Westerville
Pamela 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
Mylitta Louise Stough, North Canton
Jean Marie Teynor, Bucyrus
Sandra Gail Thomas, Chardon
Diane Marie Vanderhoff, Marion
Victoria Lynne Van Niman, Cincinnati
Renee Vaughn, Willoughby
Janis 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 deQuiróz 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)

Robert Garrett Cohen, Dayton
B.A. (University of Michigan)

Steve Abris DeVoe, Colorado Springs, CO
B.A. (South Carolina State College)

Lynn Robert Donaldson, Dayton
B.A. (Wright State University)

Kim Michelle Drayton, Philadelphia, PA
B.A. (Howard University)

Melissa Ann Garber, Lakewood
B.A. (Indiana University)

Elisabeth Anne Keller, Columbus
B.A. (Brandeis University)

Thomas Locke Mason, Ashland
B.A. (College of Wooster)

James McArdle Mattimoe, Toledo
B.S. (University of Virginia)

Wellington Franklin Roemer III, Berdey
B.A.

Brian Scott Strayer, Defiance
B.S.

College of Medicine

Dean: Manuel Tzagournis, M.D.

Doctor of Medicine

Nita Arora, Kent
B.A. (Kent State University)

School of Allied Medical Professions

Bachelor of Science in Allied Health Professions

Jody Marie Almasy, Campbell
Robert Charles Czeck, Niles
Paul Michael Elenin, Lorain
Lisa Ann Evelsizer, Oberlin
Anne Marie Ferencz, 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.Pharm. (University of Damascus)

College of Nursing

Dean: Carole A. Anderson

Bachelor of Science in Nursing

Christine Elizabeth Campbell, Columbus
Michelle Antonette Cindrich, Cincinnati
Heather Rae Komon, Dayton
Sangita Kanti Patel, Columbus
Kristen Martine Ransom, Columbus
Jack Tager, Cincinnati
Cathy Anne VanHorn, 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, Wheelersburg
Douglas James Huffman, Columbus
Karen Therese Lindway, Brecksville
Sandra Lee Malspeis, Hamilton
Roger Lee McKelvey, 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 Strenge-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.

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 Bauer
Thomas Walton Clinger
Jill Annette Frye
Cole E. Hatcher
Jenifer 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 Warthen

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 Koski
Stephanie Elaine Miller

With University Honors

David Ryan Button
Patrick A. Kaiser
William Kou
Robert Joseph Underwood
Charles G. Warner
Eric Edward Wilcox

Cum Laude

David W. Arthur
Valerie Lynn Bachus
David Mitchell Bailey
Julie Marie Baris
Robert Bianco
Cynthia Sue Conn
Mary Giselle Decker
Richard James Elliot
Brent Allan Feldman
Barbara Lynn Fischer
Margot Jill Frieder
James V. Gingo
Pamela J. Goerler
Jeffrey D. Goliver
Timothy Alan Graham
Jill Lynne Gwin
Keith Allen Hasselbach
Ned Brian Heminger
John Carey Hendrix
Steven Thomas Hill
Shannon Rae Hodge
Scott Lyman Houlton
Rachel Diane Jackson
Susan Adine Lang
Jeffrey Scott Lawlor
Raymond Robert Moreno
Kevin S. O'Brien
Lori Leann Pinkerton
Michael David Porteus
Michael Dick Rumbaugh
John A. Savolaine
Gary Evan Smallsreed
Nancy Ann Smole-Dunham
Carol Bruch Spare
Carla Rae Steele
Karen Leslie Stein
Heidi Ann Stevens
Sin Guan Tan
John Matthew Todd
Michael Clayton Tope
Julie Ann Trocchia
Philip Charles White
Keena Noelle Wolford
Michael Joseph Zucchero

THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FORTY-SEVENTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, December 2, 1988

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

REPORT ON REZONING OF THE UNIVERSITY (contd)

Mr. Jackson: (contd)

of the other things that are involved. There is no parking requirement 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.)

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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.

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.

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REPORT ON THE RESEARCH PARK (contd)

Mr. Jackson (contd)

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

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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

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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?

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REPORT ON THE RESEARCH PARK (contd)

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.

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REPORT ON THE RESEARCH PARK (contd)

President Jennings:

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

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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.)

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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.

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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

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REPORT ON THE COLLEGE OF PHARMACY (contd)

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 to 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

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REPORT ON THE COLLEGE OF PHARMACY (contd)

Dr. Cassady: (contd)

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

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REPORT ON THE COLLEGE OF PHARMACY (contd)

Dr. Cassady: (contd)

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.

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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.

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REPORT ON THE COLLEGE OF PHARMACY (contd)

Dr. Cassady: (contd)

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

December 2, 1988 meeting, Board of Trustees

REPORT ON THE COLLEGE OF PHARMACY (contd)

Dr. Cassady: (contd)

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: instrumentation; 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 pharmaceutical 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

December 2, 1988 meeting, Board of Trustees

REPORT ON THE COLLEGE OF PHARMACY (contd)

Dr. Cassady: (contd)

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.

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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.

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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.

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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.

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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.

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.

December 2, 1988 meeting, Board of Trustees

RESEARCH FOUNDATION REPORT (contd)

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.

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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.

December 2, 1988 meeting, Board of Trustees

STRATEGIC PLAN FOR UNIVERSITY HOSPITALS (contd)

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.

December 2, 1988 meeting, Board of Trustees

**STRATEGIC PLAN FOR THE OHIO
STATE UNIVERSITY MEDICAL CENTER**

Resolution No. 89-62

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.

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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.

December 2, 1988 meeting, Board of Trustees

INVESTMENTS COMMITTEE REPORT (contd)

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.)

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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.)

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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.

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PERSONNEL ACTIONS

Resolution No. 89-64

Synopsis: The Academic Affairs Committee recommended the approval of the following Personnel Actions.

December 2, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

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 OPREMCAK, 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.

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December 2, 1988 meeting, Board of Trustees

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 Taliesin Fellowship of Frank Lloyd Wright, he

December 2, 1988 meeting, Board of Trustees

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.

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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 --

December 2, 1988 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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 some way 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 carrels 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

December 2, 1988 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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.

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STUDENT AFFAIRS COMMITTEE (contd)

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.

December 2, 1988 meeting, Board of Trustees

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.

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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?

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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.

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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

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	93	\$18,691,780.33
Engineering Experiment Station	92	\$ 597,199.00
Total	185	\$19,288,979.33

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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**

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Federal Research Contracts/Grants

\$4,480,689.00 - Department of Labor, Bureau of Labor Statistics, Washington, D.C., National Longitudinal Surveys of Labor Market Experience, Round XI, Center for Human Resource Research (R. J. Olsen), 1 October 1988 through 30 September 1990. (Project 766448 - Continuation)

\$1,825,000.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Manpower for Agricultural Development in Uganda, Office of International Programs in Agriculture (D. O. Hansen and J. M. Erbaugh), 1 October 1988 through 30 June 1993. (Project 764443 - Continuation)

\$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. Garton), 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)

\$215,281.00 - Department of Agriculture, Science and Education, Peoria, Illinois, Cooperative Agricultural Research, Office of the Director - OARDC (H. R. Conrad and R. F. Edwards), 1 October 1988 through 30 September 1989. (Project 766472 - Continuation)

\$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 765702 - 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 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)

\$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 1989 through 31 December 1989. (Project 767096 - New)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$138,922.00 - 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 1988 through 30 November 1989. (Project 766526 - Continuation)

\$135,888.00 - Department of the Interior, Office of Surface Mining Reclamation and Enforcement, Pittsburgh, Pennsylvania, Maintenance of Compaction Alleviation in Mineland Soil, Department of Agronomy - OARDC (E. L. McCoy, A. L. Barta and P. Sutton), 30 September 1988 through 29 September 1990. (Project 767037 - New)

\$135,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Genetic Resistance to Fowl Cholera and Newcastle Disease, Department of Poultry Science - OARDC (K. E. Nestor and G. B. Havenstein) and Food Animal Health Research Program - OARDC (Y. M. Saif), 1 September 1988 through 31 August 1991. (Project 767061 - New)

\$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)

\$117,558.00 - Department of Education, Washington, D.C., Applying Technology to Enhance Student Information Searching, University Libraries (V. M. Tiefel), 1 October 1988 through 30 September 1989. (Project 768001 - 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

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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 (G. 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)

\$59,961.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Analysis of Airborne Antenna Patterns, Department of Electrical Engineering, ElectroScience Laboratory (E. H. Newman and W. D. Burnside), 1 June 1988 through 31 May 1989. (Project 761012 - 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)

\$48,608.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Integrating SMART: Substance Management Awareness and Resource Team, Agricultural Technical Institute - Administrative Support (J. S. Opliger), 26 September 1988 through 25 September 1990. (Project 767090 - 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. Altan) 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 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., International Conference on Sustainable Agricultural Systems, Department of Entomology - OARDC (C. A. Edwards), 12 September 1988 through 31 December 1988. (Project 767103 - New)

\$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)

\$24,622.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Zaire Agricultural Credit Bank, Department of Agricultural Economics and Rural Sociology (C. E. Cuevas), 15 October 1988 through 30 November 1988. (Project 767091 - New)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$17,100.00 - National Aeronautics and Space Administration, Washington, D.C., High Temperature Superconducting Thin Film, Department of Electrical Engineering (G. J. Valco), 1 October 1988 through 30 September 1989. (Project 767084 - New)

\$13,476.00 - 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 September 1988 through 31 March 1989. (Project 766989 - Continuation)

\$10,000.00 - 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), 1 December 1988 through 30 November 1989. (Project 763362 - Continuation)

\$9,737.00 - Environmental Protection Agency, Chicago, Illinois, Acid Deposition Monitoring Program for Western Lake Erie, Center for Lake Erie Area Research (J. M. Reutter), 1 July 1988 through 30 June 1989. (Project 767085 - New)

\$9,703.00 - Department of Defense, Maryland Procurement Office, Fort George G. Meade, Maryland, Microwave Antenna Technology, Department of Electrical Engineering, ElectroScience Laboratory (R. C. Rudduck), 1 August 1988 through 31 October 1988. (Project 765096 - Continuation)

\$5,400.00 - National Science Foundation, Washington, D.C., Phylogeny and Speciation in Polygonella (Polygonaceae), Department of Botany (D. Crawford), 1 November 1988 through 31 October 1990. (Project 768002 - New)

\$5,000.00 - Department of Agriculture, Soil Conservation Service, Washington, D.C., International Conference on Sustainable Agriculture Systems, Department of Entomology - OARDC and Department of Entomology (C. A. Edwards), 20 April 1988 through 23 September 1988. (Project 767066 - New)

TOTAL - FEDERAL AWARDS

\$15,783,761.00

State of Ohio Research Contracts/Grants

\$84,477.00 - 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), 1 September 1988 through 31 August 1989. (Project 767115 - Continuation)

\$49,979.70 - 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), 1 August 1988 through 30 June 1989. (Project 767051 - New)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

\$43,848.00 - 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)

\$26,275.00 - 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)

\$20,000.00 - 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)

\$615.00 - 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)

TOTAL - STATE OF OHIO AWARDS \$ 225,194.70

Industrial Research Contracts/Grants

\$156,215.00 - Energy and Environmental Research Corporation, Irvine, California, Technical Assistance for Atmospheric Fluidized Bed Combustion Development and Demonstration, Department of Agricultural Engineering - OARDC (H. M. Keener), 14 September 1988 through 15 April 1989. (Project 766654 - Continuation)

\$153,548.50 - 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 January 1988 through 30 June 1989. (Project 767122 - New)

\$57,726.00 - 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)

\$30,840.00 - 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)

\$28,234.00 - The Conover Company, Limited, Omro, Wisconsin, Developing a Reasoning Skills-on-the-Job Series, The National Center for Research in

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

Vocational Education (R. D. Ryan), 1 October 1988 through 30 April 1989.
(Project 767128 - New)

\$20,754.00 - AT&T Bell Laboratories, Columbus, Ohio, Improving Oral/Aural Skills of Non-Native Speakers of English in the Work Setting Through Group Work and Individualized Tutorial, Department of English/Second Language (R. N. Kantor), 1 October 1988 through 30 June 1989. (Project 767106 - Continuation)

\$6,700.00 - 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 Macrodantin Capsules, 50 mg, Four Times a Day for Seven Days in the Treatment of Urinary Tract Infections, Department of Internal Medicine (C. M. Kunin), 21 April 1988 through 20 April 1989. (Project 766768 - Continuation)

TOTAL - INDUSTRIAL AWARDS \$ 454,017.50

Other Non-Federal Research Contracts/Grants

\$1,687,000.00 - 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 Fiscal Year 1989, National Regulatory Research Institute (D. N. Jones), 1 September 1988 through 31 August 1989. (Project 763289 - Continuation)

\$109,303.00 - University of Texas, Dallas, Texas, Yeast Mitochondrial DNA Recombination, Department of Molecular Genetics (P. S. Perlman), 1 September 1988 through 31 August 1989. (Project 765272 - Continuation)

\$86,055.00 - University of Chicago, Argonne, Illinois, Optical Readout System for the ZEUS Barrel Calorimeter, Department of Physics (T. A. Romanowski), 1 August 1988 through 31 December 1988. (Project 767107 - New)

\$63,078.00 - Smokeless Tobacco Research Council, Inc., New York, New York, Effect of Smokeless Tobacco on the Postnatal Development of the Mouse and Rat, Oral Biology (R. B. Paulson), 1 January 1989 through 31 December 1989. (Project 767102 - New)

\$43,525.00 - Fifteen Members of the National Entrepreneurship Education Consortium, National Entrepreneurship Education Consortium, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766880 - Continuation)

\$35,941.00 - 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 1988 through 30 September 1989. (Project 767126 - 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)

\$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 767129 - New)

\$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 767087 - Continuation)

\$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)

\$5,025.13 - North Atlantic Treaty Organization, Brussels, Belgium, Mantle and Crustal Processes in Subvolcanic Alkali Rock Petrogenesis, Department of Geology and Mineralogy (K. A. Foland), 1 May 1988 through 30 April 1989. (Project 765324 - Continuation)

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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)

\$4,000.00 - Ohio Pork Producers Council, Westerville, Ohio, Evaluation of Heterosis Among American Yorkshire and European Large White Breeds of Swine: Potential for Concurrent Use in Crossbreeding Systems, Animal Industries Technology (S. M. Neal), 1 July 1988 through 31 December 1988. (Project 767111 - 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)

\$2,047.50 - American Animal Hospital Association, Denver, Colorado, Classroom Pet Interaction: Effect on Economically Disadvantaged Children's Attitudes Toward Pets and Academic Performances, Department of Veterinary Clinical Sciences (C. A. Neer), 1 October 1988 through 30 September 1989. (Project 767112 - 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)

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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 Qantas 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)

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)

\$35,000.00 - Delco Moraine, Dayton, OH, "Development of a Microcontroller for Development of Total Electronic Braking System," Department of Electrical Engineering, 15 September 1988 through 30 June 1989. (312474)

\$33,396.00 - Southwest Research Institute, San Antonio, TX, "Development of Creep Rupture Design Guidelines for Polyethylene Gas Pipes," Department of Engineering Mechanics, 15 May 1988 through 31 December 1989. (529778)

\$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)

\$24,289.00 - Chrysler Corp., Detroit, MI, "Feasibility Study of Hot Closed-Die Forging of Connecting Rod with Tin Cross-Section Using ALPID," Department of Industrial and Systems Engineering, 15 June 1988 through 30 June 1989. (312479)

\$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)

\$15,000.00 - Cheng Development, Inc., San Diego, CA, "San Diego Airport Computer Graphics Simulation," Department of Landscape Architecture, 1 October 1988 through 31 December 1988. (312480)

\$13,153.00 - Mobil R&D Corp., Princeton, NJ, "Catcracker: An Expert System Framework for Diagnosis in Fluid Catalytic Cracking Units," Department of Chemical Engineering, 15 October 1988 through 15 April 1989. (312484)

\$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)

\$10,000.00 - Welding Research Council, New York, NY, "Study of Welding Pool Depression and Penetration by Means of Real Time Radiography," Department of Welding Engineering, 1 October 1988 through 30 June 1989. (529779)

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.

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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.

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**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.

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**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)

Low Bid:	\$ 408,000.00*
High Bid:	\$ 687,500.00*
Estimate of Cost:	\$ 645,700.00*
Awarded to:	Concept Construction Co., Columbus, OH

Plumbing Contract

Date Received:	September 14, 1988
No. of Bids:	2
Low Bid:	\$ 59,076.00*
High Bid:	\$ 73,912.00*
Estimate of Cost:	\$ 68,859.00*
Awarded to:	Williamson Builders, Inc., Plain City, OH

HVAC Contract

Date Received:	September 14, 1988
No. of Bids:	4
Low Bid:	\$ 254,800.00*+
High Bid:	\$ 402,404.00*
Estimate of Cost:	\$ 198,741.00*
Awarded to:	Wayne Mechanical Inc./J. A. Guy, Joint Venture, Dublin, OH

Electric Contract

Date Received:	September 14, 1988
No. of Bids:	4
Low Bid:	\$ 78,600.00*

*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.

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**LEASE OF LAND TO THE CITY OF COLUMBUS
0.78 ACRES AT DON SCOTT FIELD**

Background

Description

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.

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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 (totalling 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.)

**PURCHASE OF REAL PROPERTY
1224 KINNEAR ROAD, COLUMBUS, OHIO**

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 Eyers 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.

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Mr. Immke:

We will adjourn the meeting by wishing you all a very happy, healthy, and safe holiday season.

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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

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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."

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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.

WEST CAMPUS RESEARCH PARK

Building and Occupancy Report

Address	Agency or Organization	Square Footage Utilized	Estimated Number of Employees
1960 Kenny Road	Sponsored Research Programs (OSURF)	46,000	130
1900 Kenny Road	Ctr on Education & Training for Employment	31,561	80
1991 Kenny Road	Biotechnology Center Greenhouse	2,880	na
1100 Kinnear Road	Edison Welding Institute	46,484	50
1121 Kinnear Road	Kinnear Road Center	82,608	225
1212-18 Kinnear Road	Research Park--Multi-tenant Facility A	37,090	40
1224 Kinnear Road	Research Park--Multi-tenant Facility B	41,620	63
1314 Kinnear Road	Research Center (OSURF)	142,984	145
1314 Kinnear Road	Reactor Building	3,744	4
1302 Kinnear Road	Van de Graff Laboratory	13,714	12
1318 Kinnear Road	Satellite Communications Facilities	3,122	5
1320 Kinnear Road	Electro Science Laboratory	26,440	40
1350 Carmack Road	State Data Center (Planned Construction)	400,000	600
1050 Carmack Road	Ohio Council on Economic Education	585	3
1060 Carmack Road	Biotechnology Center	6,430	40
1060 Carmack Road	Council of Educational Facilities Planners	2,674	7
1080 Carmack Road	Biotechnology Center	682	na
1080 Carmack Road	National Regulatory Research Institute	6,765	35
1090 Carmack Road	Ohio Biological Survey	1,500	5
TOTAL		896,883	1,484

Office of Business and Administration
December 2, 1988

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APPENDIX V

SUMMARY OF RECOMMENDED GOALS AND STRATEGIES
FOR THE COLLEGE OF MEDICINE AND
THE HOSPITALS AND CLINICS

Adopted by the Board of Trustees December 2, 1988
(See page 363)

**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**

**THE OHIO STATE UNIVERSITY
COLLEGE OF MEDICINE**

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

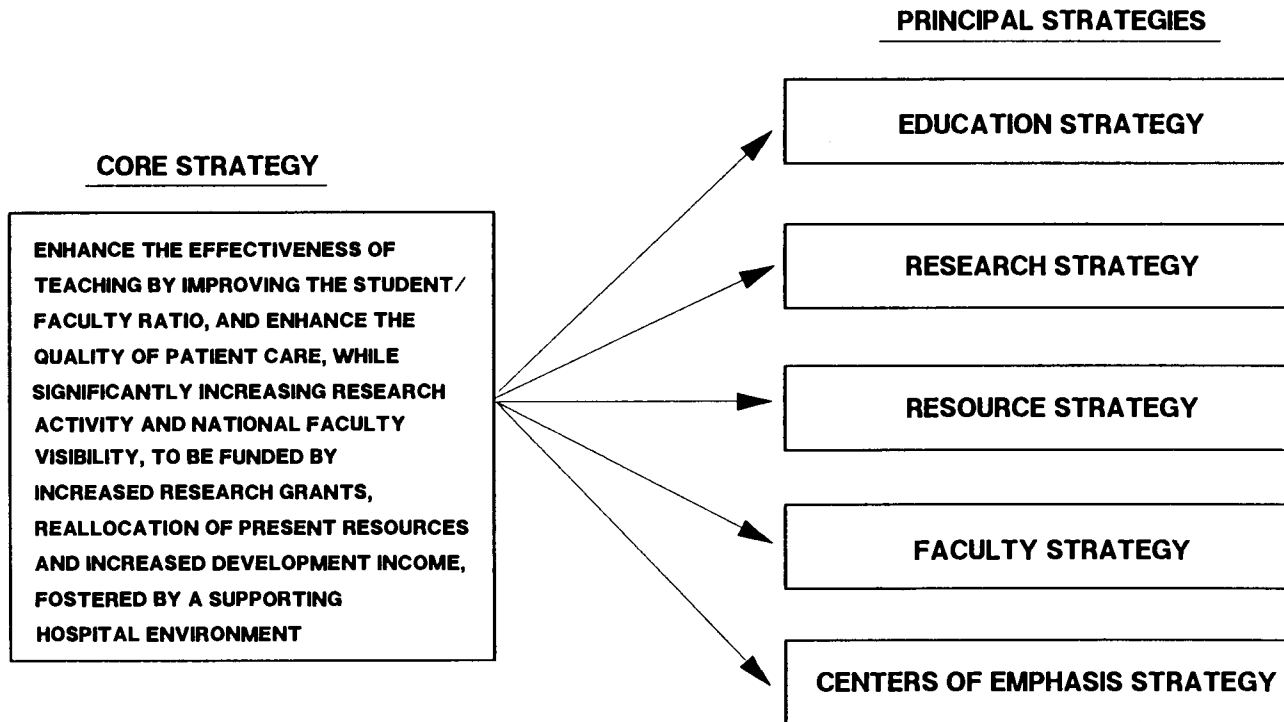
WHAT STRATEGY WILL ACHIEVE "TOP 10" POSITIONING?

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
COMPRISES FIVE PRINCIPAL STRATEGIES...**



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

- o **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**
- o **UTILIZE REFERRAL AREA TRAINING SITES TO SUPPLEMENT OSU HOSPITALS AND CLINICS**
- o **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**
- o **ATTRACT QUALITY STUDENTS AND ACHIEVE PLACEMENT IN LEADING RESIDENCY PROGRAMS**
- o **RECOGNIZE THE IMPORTANCE OF GRADUATE 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:

o 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.

O 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.

O 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.

O 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.

O 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

- o **ESTABLISH AN OBJECTIVE OF INCREASING AGGREGATE RESEARCH FUNDING BY 15-20% PER YEAR**
- o **COORDINATE AREAS OF EXISTING OR POTENTIAL STRENGTH WITH HOSPITAL, COLLEGE OF MEDICINE, AND UNIVERSITY-WIDE STRENGTHS**
- o **ESTABLISH CRITERIA AND MECHANISMS FOR EVALUATING AND MONITORING PRIORITIES FOR EMERGING OR EXISTING STRENGTHS**
- o **PROVIDE FOR GREATER COLLEGE CONTROL OVER PRIORITIES FOR ADDITIONAL "SEED FUNDS"**
- o **PROVIDE ADDITIONAL "SEED FUNDS" TO ADDRESS COLLEGE OF MEDICINE PRIORITIES**
- o **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:

- 0 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.

O 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.

O 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.

O 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.

O 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

- o INCREASE THE AMOUNT OF FUNDS AVAILABLE TO THE DEAN FOR SELECTED RESEARCH PRIORITIES**
- o STRENGTHEN DEVELOPMENT EFFORTS AND INCREASE THE LEVEL OF ANNUAL SUPPORT TO GENERATE GREATER ENDOWMENT INCOME**
- o STRENGTHEN SUPPORT TO THE HOSPITAL SO THAT IT CAN CONTINUE TO PROVIDE AN ENVIRONMENT WHICH ENHANCES THE COLLEGE'S DEVELOPMENT**
- o INITIATE (OR RESPOND TO) STATE FUNDING OPPORTUNITIES FOR SPECIFIC PROGRAM AREAS**
- o INITIATE (OR RESPOND TO) OPPORTUNITIES FOR FEDERAL SUPPORT VIA THE VA OR SPECIFIC PROGRAM AREAS**
- o DEVELOP A FIVE-YEAR COLLEGE OF MEDICINE BUDGET**
- o 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:

O 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.

O 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.

O 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.

O 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.

O 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.

O 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.

O 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

- o **RECRUIT NATIONALLY RECOGNIZED FACULTY IN AREAS OF IDENTIFIED PRIORITIES; BRING GRANT DOLLARS TO THE MEDICAL CENTER VIA SPECIFIC FACULTY RECRUITMENT**
- o **ENCOURAGE AND REWARD INCREASED PARTICIPATION IN ACTIVITIES THAT GAIN NATIONAL PRESTIGE**
- o **INCREASE THE NUMBER AND DESIRABILITY OF CLINICALLY-ORIENTED POSITIONS TO MEET PATIENT SERVICE NEEDS AND DEMANDS**
- o **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

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0 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.

OSU COLLEGE OF MEDICINE

CENTERS OF EMPHASIS STRATEGY

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) DRAWS UPON A STRONG RESEARCH (BASIC SCIENCE) COMPONENT;**
- 4) EXHIBITS A STRONG PRESENCE IN THE OSU SYSTEM;**
- 5) HAS ESTABLISHED LEADERSHIP.**

DIRECTIONS

- o **COM ADMINISTRATION, COM FACULTY AND HOSPITALS ADMINISTRATION COLLABORATIVELY SELECT CENTERS OF EMPHASIS**
- 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 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

- o **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**

THE OHIO STATE UNIVERSITY

HOSPITALS AND CLINICS

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:

- o **IN THE MARKETPLACE, THEY ARE PERCEIVED AS AN INTEGRATED DELIVERY UNIT**
- o **THE CLINICS (AND THE CLINICAL DEPARTMENTS) FUNCTION AS THE "ENGINE" OF OSU HOSPITALS**
- o **EXTERNAL PERCEPTION OF QUALITY VIEWS THE HOSPITALS AND PHYSICIANS/CLINICS AS ONE**

OSU

HOSPITALS AND CLINICS

CRITERIA FOR EVALUATION OF HOSPITALS AND CLINICS' PERFORMANCE:

- o MARKET SHARE/VOLUME
- o RELATIVE COST
- o PAYOR MIX
- o RATIO OF INPATIENT TO AMBULATORY REVENUE
- o EMPLOYEE MORALE
- o PHYSICIAN PERCEPTIONS
- o CONSUMER PERCEPTIONS
- o ALTERNATIVE DELIVERY SYSTEM PARTICIPATION
- o LEVEL OF TECHNOLOGY/CLINICAL EXCELLENCE
- o OPERATING MARGIN
- o RESPONSIVENESS TO COMMUNITY HEALTH NEEDS AND DEMANDS
- o NEW PATIENT VISITS
- o APPOINTMENT AVAILABILITY
- o CONTRIBUTIONS TO COLLEGE OF MEDICINE
- o CUSTOMER SATISFACTION AND ACCEPTABILITY OF SERVICES RENDERED
- o PERFORMANCE OF CLINICAL AND MANAGERIAL SYSTEMS
- o 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

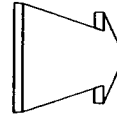
THE HOSPITALS AND CLINICS CORE STRATEGY COMPRISES
2 KEY COMPONENTS AND 7 PRINCIPAL STRATEGIES....

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

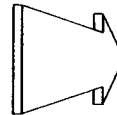
KEY COMPONENTS

MARKET RESPONSIVENESS AND COMPETITIVENESS



- o STRUCTURE STRATEGY
- o FINANCIAL STRATEGY
- o CENTERS OF EMPHASIS STRATEGY
- o CONSUMER STRATEGY
- o MARKETING STRATEGY

PHYSICIAN AND SERVICES NETWORK



- o LOCAL AREA STRATEGY
- o REFERRAL AREA STRATEGY

PRINCIPAL STRATEGIES

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

- o **STRENGTHEN THE ROLE OF THE UNIVERSITY HOSPITALS BOARD BY BROADENING ITS AGENDA RELATIVE TO SETTING STRATEGIC DIRECTIONS, STANDARDS, CLINICAL ACTIVITIES, AND MONITORING PERFORMANCE**

- o **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**

- o **IMPROVE COMMUNICATIONS AND JOINT DECISION MAKING BETWEEN HOSPITALS AND CLINICS ADMINISTRATION, COLLEGE OF MEDICINE ADMINISTRATION, AND MEDICAL STAFF/FACULTY**

- o **ACHIEVE GREATER FLEXIBILITY WITHIN THE UNIVERSITY STRUCTURE FOR SELECTED ADMINISTRATIVE AND SUPPORT ACTIVITIES**

o 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:

o 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.

O 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.

O 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.

O 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

- o **CREATE AWARENESS OF THE IMPORTANCE OF COST EFFECTIVENESS AMONG PHYSICIANS, MANAGEMENT AND EMPLOYEES**
- o **STRENGTHEN COST REDUCTION RESULTS THROUGH AGGRESSIVE BUDGETING, PRODUCTIVITY MANAGEMENT, AND RESPONSIBILITY DELEGATION EFFORTS**
- o **EXPAND HOSPITAL/UNIVERSITY EFFORTS TO CONTAIN THE COSTS OF JOINT ACTIVITIES, INCLUDING BOTH DIRECTLY PURCHASED SUPPLIES AND SERVICES AND UNIVERSITY OVERHEAD ITEMS**
- o **PARTICIPATE IN ALL MANAGED CARE PLANS WHOSE REIMBURSEMENT STRUCTURE IS ACCEPTABLE FOR THE HOSPITALS AND CLINICS**
- o **MONITOR AT THE BOARD LEVEL PROGRESS IN ACHIEVING TARGETED COST PERFORMANCE INDICATORS**
- o **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:

O 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.

O 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.

O 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.

O 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

- o 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
- o 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:

O 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.

O 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.

O 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.

o 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

DIRECTIONS

- o **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**
- o **ANALYZE AND MODIFY CONSUMER CONTACT OPERATING SYSTEMS TO MEET THE PERCEIVED AND ACTUAL NEEDS OF PATIENTS AND REFERRING PHYSICIANS**
- o **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

- o **MEASURE, IMPROVE AND MONITOR EMPLOYEE COMMITMENT TO CONSUMER SERVICE AND OVERALL JOB SATISFACTION**

- o **CREATE MECHANISMS TO ASSURE COMMUNICATIONS WITH REFERRING PHYSICIANS**

- o **WORK WITH STATE OFFICIALS TO OBTAIN APPROVAL FOR AN EXIT OFF HIGHWAY 315**

- o **IMPROVE ACCESS, SIGNAGE AND PARKING WITHIN THE MEDICAL CENTER'S CAMPUS**

- o **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.

o 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.

o 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.

o 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

O 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

- o RECOGNIZE THE IMPORTANCE OF FAVORABLE "WORD OF MOUTH" ENDORSEMENTS FROM PATIENTS AND FAMILY, AND GEAR THE MEDICAL CENTER'S CONSUMER STRATEGY TO THIS END
- o INCREASE FACULTY INTERACTION/INTERRELATIONSHIPS WITH PRESENT AND POTENTIAL REFERRING PHYSICIANS; AND ACTIVELY MARKET THE MEDICAL STAFF TO TARGETED PHYSICIAN MARKETS IN CENTRAL OHIO
- o CAPITALIZE ON THE STRENGTHS OF THE FACULTY BY ORGANIZING A MEDICAL CENTER-WIDE PUBLIC RELATIONS PROGRAM, AND INTEGRATE WITH OTHER PHYSICIAN MARKETING ACTIVITIES
- o 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
- o 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.

O 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.

O 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.

O 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.

O 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

- o DEVELOP AN AMBULATORY SERVICES DISTRIBUTION PLAN WHICH IDENTIFIES PREFERRED LOCATIONS AND SERVICE MIX FOR PHYSICIANS, DIAGNOSTIC/TREATMENT CENTERS, AND OTHER AMBULATORY HEALTHCARE FACILITIES
- o CREATE A MANAGEMENT STRUCTURE FOR THE AMBULATORY SERVICES NETWORK WHICH IS INTEGRATED WITH THE CLINICS AND DEPARTMENTS, AND WHICH ALSO FOSTERS COMPETITIVE SERVICE DELIVERY
- o 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

PRINCIPAL STRATEGY

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

DIRECTIONS -- CONTINUED

- o **STRENGTHEN OR CREATE REFERRAL RELATIONSHIPS FOR TERTIARY SERVICES THAT NOW RESULT IN PATIENT OUTMIGRATION FROM FRANKLIN COUNTY**

- o **STRENGTHEN CME, SPEAKER'S BUREAU AND ALUMNI RELATIONS PROGRAMS**

- o **OSU HOSPITALS MEDICAL STAFF SHOULD BECOME MORE ACTIVELY INVOLVED IN MEDICAL SOCIETY ACTIVITIES AT THE LOCAL (FRANKLIN COUNTY) AND STATEWIDE LEVELS**

- o **DEVELOP UNIVERSITY HOSPITALS AS A DIRECT PROVIDER OF SERVICES TO STATE, LOCAL AND FEDERAL GOVERNMENT EMPLOYEES, AS WELL AS TO LOCAL BUSINESSES**

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:

o 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 MED OHIO 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.

O 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.

O 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.

O 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.

O 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.

O 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

- o CREATE, MANAGE AND MONITOR CONSUMER- AND PHYSICIAN-ORIENTED REFERRAL PROGRAMS
- o FUND AGGRESSIVE ALUMNI AND POST-GRADUATE RELATIONS PROGRAM THROUGHOUT THE STATE OF OHIO
- o INCREASE AND STRENGTHEN CME ACTIVITY ON AND OFF CAMPUS FOR PHYSICIAN AND ALLIED HEALTH PERSONNEL THROUGHOUT CENTRAL OHIO
- o DEVELOP CONTRACTUAL SERVICE ARRANGEMENTS WITH OTHER CENTRAL OHIO HOSPITALS IN ORDER TO FOSTER INTERHOSPITAL RELATIONSHIPS, LOYALTIES, AND ALLIANCES
- o 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:

o 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.

O 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.

0 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**

COLLEGE OVERVIEW

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).¹ 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 The 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 orientation 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 course work, 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.

	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
<u>Minimum Goal</u>	15	15	15	15	15
<u>Ideal Goal</u>	20	20	20	20	20

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, equalling 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.

	1989	1990	1991	1992
<u>Minimum Goal</u>	8	8	8	8
<u>Ideal Goal</u>	10	10	10	10

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:

	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
<u>Minimum Goal</u>	1	1	1	1	1
<u>Ideal</u>	2	2	2	2	2

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:

	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
<u>Minimum Goal</u>	3	3	3	3	3
<u>Ideal</u>	5	5	5	5	5

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.

Blacks	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
<u>Minimum Goal</u>	3	3	3	3	3
<u>Ideal</u>	5	5	5	5	5
Other Minorities	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
<u>Minimum Goal</u>	2	2	2	2	2
<u>Ideal</u>	3	3	3	3	3

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.

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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)



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**THE OHIO STATE UNIVERSITY
 ENDOWMENT SUMMARY
 November 18, 1988**

Endowment Composition

	<u>06-30-88</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>11-18-88</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
Equities:				
Chicago Corp.	\$ 38,004,379	18.55%	\$ 36,591,436	17.12%
Nicholas-Applegate	10,454,591	5.10	9,675,605	4.53
Siebel	34,428,707	16.81	33,874,109	15.85
Mutual Fund	17,462,592	8.53	17,002,021	7.96
OSU Managed	<u>33,282,386</u>	<u>16.25</u>	<u>45,506,114</u> (1)	<u>21.30</u>
Total Equities	\$133,632,655	65.24%	\$142,649,285	66.76%
Fixed Income:				
Cambridge	\$ 921,925	0.45%	\$ 913,375	0.43%
Centerre Trust	21,547,467	10.52	21,843,668	10.22
Duff & Phelps	9,983,561	4.87	9,861,686	4.62
SIW Fixed Income	22,300,069	10.89	21,995,135	10.29
OSU - GMA	9,954,372	4.86	9,908,004	4.64
OSU Managed	<u>6,502,840</u>	<u>3.17</u>	<u>6,500,318</u>	<u>3.04</u>
Total Fixed Income	\$ 71,210,234	34.76%	\$ 71,022,186	33.24%
Total Equities & Fixed Income	\$204,842,889	<u>100.00%</u>	\$213,671,471	<u>100.00%</u>
Real Estate	\$ 43,089,186		\$ 36,577,189 (2)	
Total Portfolio	<u>\$247,932,075</u>		<u>\$250,248,660</u>	

(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

	<u>% Yield</u>	<u>% Change in Market Value November '87 to November '88</u>	<u>Total Estimated Return</u>
Equity:			
Common Stock (Chicago Corp.)	3.52% (1)	8.91%	12.43%
Common Stock (Nicholas-Applegate)	2.10 (2)	13.03	15.13
Common Stock (Siebel)	3.61 (3)	9.19	12.80
Mutual Fund	3.32	15.79	19.11
Common Stock (OSU Managed)	3.79 (4)	13.72	17.51
Standard & Poor's Index	3.60	10.11	13.71
Real Estate:	4.37%	-0- (11)	4.37%
Fixed Income:			
Bonds (Cambridge)	7.35% (5)	(3.91)%	3.44%
Bonds (Centerre Trust)	8.43 (6)	(.25)	8.18
Bonds (Duff & 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% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 7.5%.
- (8) 0.3% of STW 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.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>11-18-88</u>	<u>Percent of Portfolio</u>
Market Value (06-30-88)	\$247,932,075	Equities	\$ 99,311,373	39.68%
Principal Additions	5,964,868	Fixed Income	64,058,536	25.60
Principal Withdrawals	(24,000)	Real Estate	36,458,000	14.57
Change in Market Value	<u>(3,624,283)</u>	Cash	<u>50,420,751</u>	<u>20.15</u>
Current Market Value	<u>\$250,248,660</u>	Total Portfolio	<u>\$250,248,660</u>	<u>100.00%</u>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
No Activity			

Real Estate

<u>Sale</u>	<u>Total Investment</u>
No Activity	

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
4,000	Apple Computer, Inc.	Chicago	38.5000	\$ 154,000.00	\$ 960.00
7,000	Archer Daniels Midland Co.	"	21.0000	147,455.00	700.00
4,900	Baltimore Gas & Electric Co.	"	32.2070	158,132.80	9,800.00
3,300	Betz Laboratories, Inc.	"	48.2500	159,225.00	5,544.00
3,700	Boise Cascade Corp.	"	42.6080	157,890.10	5,180.00
4,800	Consolidated Freight- ways, Inc.	"	32.7500	157,512.00	4,704.00
10,400	Genentech, Inc.	"	15.2139	158,900.56	0.00
3,100	Hilton Hotels Corp.	"	49.9785	155,134.78	3,100.00
3,600	Lockheed Corp.	"	43.0000	155,034.00	5,760.00
1,900	Medtronics, Inc.	"	83.5000	158,773.50	2,280.00
3,900	Pepsico, Inc.	"	41.1237	160,635.93	3,276.00
2,900	Southern New England Telecommunications Corp.	"	54.9028	159,406.70	8,700.00
1,400	Time, Inc.	"	112.9129	158,169.06	1,400.00
13,800	American Greetings Corp.	Nicholas- Applegate	20.6069	284,375.00	9,108.00
12,000	Black & Decker Corp.	"	22.9370	275,964.00	4,800.00
10,000	Union Bank of San Francisco	"	27.0000	270,000.00	10,800.00
12,500	Motorola, Inc.	Siebel	40.0000	<u>500,875.00</u>	<u>8,000.00</u>
				<u>\$3,371,483.43</u>	<u>\$84,112.00</u>

**The Ohio State University
Common & Preferred Stock**

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
600	American Home Products Corp.	Chicago	83.0000	\$ 49,759.34	\$ 12,039.79
2,100	Avery International Corp.	"	22.7500	47,636.90	21,422.90
1,200	Borden, Inc.	"	56.8750	68,169.72	56,835.43
1,400	Cincinnati Bell, Inc.	"	44.1800	61,758.93	18,494.45
3,700	Dominion Resources, Inc.	"	44.5000	164,404.01	36,897.87
4,500	Dow Jones & Co.	"	33.5000	150,452.47	(7,777.43)
5,900	Fuller (H.B.) Co.	"	25.5000	150,450.00	(8,850.00)
5,500	May Department Stores Co.	"	35.7620	196,326.94	91,835.27
500	New Process Co.	"	40.0000	19,966.83	1,559.33
1,200	Newell Corp.	"	27.0390	32,367.71	13,492.33
1,100	Newell Corp. Cl. B	"	21.0000	23,100.00	3,300.00
1,200	Pfizer, Inc.	"	57.3750	68,769.70	52,118.53
500	Sara Lee Corp.	"	47.7750	23,854.20	4,139.82
8,300	Shared Medical Systems Corp.	"	16.1250	133,837.50	(22,825.00)
9,000	Standard Register Co.	"	15.0000	135,000.00	(19,746.00)
5,100	Times Mirror Co.	"	34.2500	174,337.67	(3,489.22)
3,000	Valspar Corp.	"	22.7500	68,052.72	(10,187.28)
8,000	Arco Chemical Co.	Nicholas-Applegate	28.2630	225,616.12	(35,948.88)
6,700	General Motors Corp. Cl. E	"	40.1080	268,312.64	(25,269.56)
16,500	Medco Containment Services, Inc.	"	12.6970	209,500.00	(69,172.50)
2,900	Quaker Oats Co.	"	57.4510	166,428.34	5,440.64
9,400	Trinity Industries, Inc.	"	28.3434	265,855.01	(1,110.34)
174	American Electric Power Co., Inc.*	OSU	28.3750	4,842.08	2.71
128	General Motors Corp.*	"	80.1250	10,099.13	11.13
5,000	Digital Equipment Corp.	Siebel	93.5340	467,204.41	(243,014.48)
21,150	Weyerhaeuser Co.	"	24.0520	<u>507,202.34</u>	<u>(200,756.86)</u>
				<u>\$3,693,304.71</u>	<u>\$(330,557.35)</u>

* Gift.

The Ohio State University
Bonds/Notes

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
900,000	U.S. Treasury Bond 8.875% 08/15/17	Cambridge	8.8778	8.8758	99.9687	\$899,718.75
						<u>\$899,718.75</u>

**The Ohio State University
Bonds/Notes**

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain (Loss) On Sale</u>
900,000	U.S. Treasury Bond 8.875% 08/15/17	Cambridge	98.0469	\$882,421.88	\$(17,296.87)
				<u>\$882,421.88</u>	<u>\$(17,296.87)</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
Building and 3.295 acres at 900 Kinnear Road	10.46X	1962	\$ 435,204	\$ 1,400,000	06/87
Building and 5.56 acres at 1180 Kinnear Road	12.00	1984	825,000	1,900,000	06/87
Building and 2.633 acres at 1900 Kenny Road	10.47	1961	639,930	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	1968	170,000	570,000	06/87
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/87
Hangar at Dun Scott Field (Loan)	.00	1973	36,666 (1)	36,666	N/A
Hangar addition at Dun Scott Field (Loan)	10.00	1978	82,354 (1)	82,354	N/A
House and .23 acres of land, 760 Beautyview Court	.00	1988	100,000	180,000	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	1965	24,000	1,020,000	06/87
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/87
Undivided one-half interest in building and .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 Kitzman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	3,767,261	6,460,000	02/85
Kakalecik land contract - Carpenter	12.00	1987	<u>169 (2)</u>	<u>169</u>	N/A
			<u>\$11,450,130</u>	<u>\$36,577,189</u>	

(1) Amount represents balance on loan made to Department of Aviation.

(2) Amount represents balance on gift from the Kakalecik Estate.

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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 manifold, 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

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.

I. 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.)?

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.

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.

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.

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

Timetable

1987

September 1987	Formal announcement of the planning process by the Provost.
	Plans due December 1, 1988.
Autumn 1987	Input to the Enrollment Planning Model

1988

January 1, 1988	First progress report due from Deans
March 1988	Budgets/Annual reports due
April 1988	Budget hearings
Spring 1988	Programs initiate planning process
July 1, 1988	Second progress report due from Deans
Autumn 1988	Programs complete plans
December 1, 1988	Final plans due from Deans

1989

January 1989	Planning hearings
March 1989	Budgets/Annual reports due
April 1989	Budget hearings
Autumn 1989	Programs review and revise plans
December 1, 1989	Revised plans due from Deans

1990

January 1990	Planning hearings
March 1990	Budgets/Annual reports due
April 1990	Budget hearings
Autumn 1990	Programs review and revise plans
December 1, 1990	Revised plans due from Deans

etc.

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

- o 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.
- o 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.
- o 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

- o 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.
- o 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

- o Classrooms need to be readied to take advantage of new instructional technology, including both computer support and video projection. Instructional laboratories require updating.
- o Across campus many classrooms, laboratories, and offices need to be wired for future use of computing equipment.

Library and Other Collections

- o 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

- o 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**

THE OHIO STATE UNIVERSITY
CAPITAL PLAN
ALL FUNDING SOURCES
1989-90 BIKENIUM

	JUNE 1987 ESTIMATES \$(000)	STATE FUNDED PROJECTS \$(000)
UTILITIES & RENOVATIONS		
	GENERAL U & R (COLUMBUS CAMPUS)	\$ 18,000.0
NS	SMALL U&R PROJECTS	9,000.0
	PCB TRANS REMOVAL	8,000.0
NS	PCB TRANS REMOVAL	5,600.0
NS	HOSPITALS U&R	11,500.0
NS	ATHLETIC DEPT U&R	3,000.0
NS	RESIDENCE & DINING U&R	9,408.0
NS	UNION BLDGS U&R	3,254.0
	REGIONAL CAMPUSES U & R	1,000.0
	ATI U & R	250.0
	OARDC U & R	500.0
	ASBESTOS	2,000.0
NS	ASBESTOS	1,000.0
	DEWEY HALL RENOVATION - PHASE II	2,575.0
	HAMILTON HALL RENOVATION - PHASE II	8,300.0
	DENTAL INSTRUCTIONAL LAB RENOVATION	3,000.0
NS	DENTAL INSTRUCTIONAL LAB RENOVATION	1,500.0
	LIBRARY BOOK WAREHOUSE	3,100.0
	EVANS LAB ADDITION	4,100.0
	CLASSROOM BLDG RENOVATION PHASE II	850.0
	BIO SCIENCES/PARKS HALL ADDITION	20,325.0
	GREENHOUSE PROJECTS	5,800.0
	EQUINE CENTER	4,000.0
AS	EQUINE CENTER	1,500.0
	HEALTH CTR ACCESS RD PHASE I & II	9,900.0
NS	FROZEN FOODS FACILITY REPLACEMENT	1,500.0
	DRESSER LAB ADDITION	15,450.0
	HENDERHALL LAB RENOVATION	11,100.0
NS	HENDERHALL LAB RENOVATION	200.0
	RIGHTMIRE HALL REMODELING	4,500.0
NS	NEW MAINTENANCE BLDG	9,000.0
NS	BOOKSTORE REPLACEMENT	2,500.0
	SMITH LAB RENOVATION PHASE I	3,250.0
	SISSON HALL RENOVATION	2,820.0
NS	LAW BUILDING ADDITION AND RENOVATION	7,500.0
NS	LAW BUILDING ADDITION AND RENOVATION	7,500.0
	SUB TOTALS	202,782.0
	ADDITIONAL PROJECTS FUNDED	
	NORTH STAR BLDG ADDITION	250.0
	STRAGHANTS SCHOOL PROJECTS -SOUTH BASS AND GIBRALTAR ISLANDS	1,000.0
	CRANSTON BLDG PURCHASE AND RENOVATIONS	3,000.0
	AMERIFLORA TECHNOLOGY AND HORTICULTURE INFORMATION CENTER	4,500.0
	AMERIFLORA BIOCONTAINMENT FACILITY	2,225.0
TOTALS	\$ 202,782.0	\$ 68,063.0

NOTE: ASBESTOS ABATEMENT, DATA PROCESSING EQUIPMENT AND INSTRUCTIONAL EQUIPMENT
FUNDING PROVIDED TO BOARD OF REGENTS

NS = NON STATE FUNDING SOURCE

CAP6990

THE OHIO STATE UNIVERSITY
CAPITAL PLAN
ALL FUNDING SOURCES
1991-92 BIENNIUM

JUNE 1987 ESTIMATES
\$(000.0)
1991-92

UTILITIES & RENOVATIONS		
	GENERAL U & R (COLUMBUS CAMPUS)	\$ 18,000.0
NS	SMALL U&R PROJECTS	9,000.0
NS	HOSPITALS U&R	12,000.0
NS	ATHLETIC DEPT U&R	2,000.0
NS	RESIDENCE & DINING U&R	970.0
NS	UNION BLDGS U&R	2,970.0
	REGIONAL CAMPUSES U & R	750.0
	ATI U & R	250.0
	QARDC U & R	500.0
	ASBESTOS	2,000.0
NS	ASBESTOS	1,000.0
	B & Z BLDG ADDITION & RENOVATION-PH I	5,425.0
	MCPHERSON LAB RENOVATION - PHASE I	7,175.0
	SMITH LAB RENOVATION PHASE II	3,500.0
	CALDWELL LAB REMODELING (WELD ENG)	3,390.0
	NEW LIBRARY BUILDING - PHASE I	36,100.0
NS	MACK HALL RENOVATION	5,000.0
NS	BYRD CENTER RENOVATION	1,000.0
	SCHOOL OF ARCHITECTURE BUILDING REPLACEMENT	22,000.0
	NEIL 17th REPLACEMENT	7,500.0
	HUGHES HALL RENOVATION	4,500.0
	VIVIAN HALL RENOVATION	4,600.0
	RESOURCE CGNS & RECOV LAB(ENVIR HLTH)	1,330.0
NS	RESEARCH CENTER RENOVATION	5,000.0
	MARION CAMPUS MAINTENANCE BUILDING	525.0
	AGRICULTURE FACILITIES PLANNING	500.0
	HEALTH CTR ACCESS RD PHASE III	3,900.0
NS	RESEARCH PARK DEVELOPMENT (INFRASTRUCTURE)	3,000.0
	HORTICULTURE GREENHOUSES EXPANSION	2,500.0
	ANIMAL FACILITY UPGRADING (DENTISTRY)	1,000.0
	LORD HALL REPLACEMENT	7,500.0
	HORSE BREEDING FACILITY (ATI)	600.0
	TOTAL	175,445.0

NS = NON STATE FUNDING SOURCE

PL9192

THE OHIO STATE UNIVERSITY
CAPITAL PLAN
ALL FUNDING SOURCES
1993-94 BIENNIUM

JUNE 1987 ESTIMATES
\$(000.0)

UTILITIES & RENOVATIONS		
	GENERAL U & R (COLUMBUS CAMPUS)	\$ 18,000.0
NS	SMALL U&R PROJECTS	9,000.0
NS	HOSPITALS U&R	12,500.0
NS	ATHLETIC DEPT U&R	2,000.0
NS	UNION BLDGS U&R	4,140.0
	REGIONAL CAMPUSES U & R	750.0
	ATI U & R	250.0
	QARDC U & R	500.0
	ASBESTOS	1,000.0
NS	ASBESTOS	1,000.0
	B & 2 RENOVATION - PHASE II	5,165.0
	MCPHERSON LAB RENOVATION - PHASE II	4,050.0
	SMITH LAB RENOVATION - PH III	2,800.0
	LIBRARY BLDG - PHASE II	8,900.0
NS	STUDENT HEALTH EQUIP UPGRADE	265.0
NS	OXLEY HALL RENOVATIONS	2,000.0
NS	MEDICAL LOGISTICAL SERVICES ADDITION PHASE II	9,000.0
NS	PSYCHIATRIC HOSPITAL REPLACEMENT	16,000.0
NS	DOON SCOTT FIELD IMPROVEMENTS	2,200.0
NS	SPORTS PARK SITE DEVELOPMENT	2,000.0
NS	SPORTS PAVILION	13,300.0
	POULTRY RESEARCH FACILITY REPLACEMENT	1,700.0
	KOTTMAN HALL GREENHOUSE EXPANSION	875.0
	POULTRY RESEARCH FACILITY (QARDC)	400.0
	MARION CAMPUS LIBR EXPAN/MTC CLASSRMS	3,450.0
	ANIMAL SCIENCE FACILITY	12,500.0
	MAINTENANCE/STORAGE FACILITY (NEWARK)	300.0
NS	RESEARCH PARK RENOVATION/NEW CONSTRUCTION	10,000.0
	NUCLEAR REACTOR LAB MODIFICATIONS	250.0
	NEWTON HALL ADDITION	4,000.0
	HEALTH SCIENCE LIBRARY SHELVING RENOVATION	1,200.0
	GRAIN STORAGE (QARDC)	318.0
NS	OUTDOOR AQUATIC CENTER	1,150.0
NS	PROPERTY ACQUISITIONS (SOUTH, KINNEAR, KENNY)	8,700.0
	ENTRANCE ROAD (NEWARK)	1,700.0
	FINLEY FARM IMPROVEMENTS	2,000.0
NS	WEIGHTLIFTING CENTER	125.0
	ACADEMIC BLDG ANNEX (MANSFIELD)	1,800.0
	HASKETT HALL RENOVATION	3,000.0
	RAMSEYER HALL RENOVATION	5,250.0
	SISSON HALL PHASE II	6,500.0
NS	INTERCOLLEGIATE ATHLETIC CENTER	9,500.0
NS	PHYSICIAN OFFICE BLDG	12,000.0
NS	OHIO UNION ADDITION (4TH FLOOR)	3,400.0
NS	STORM/SANITARY SEWER SEPARATION	2,500.0
	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 Drees 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.

THE OHIO STATE UNIVERSITY
 1989-1994 CAPITAL PLAN
 STATE FUNDING REQUEST
 (IN THOUSANDS OF DOLLARS)
 1989-90 BIENNIUM

PRIORITY		JUNE 1987 ESTIMATES
1	UTILITIES & RENOVATIONS	
	GENERAL U & R (COLUMBUS CAMPUS)	\$ 18,000.0
	POB TRANS REMOVAL	8,000.0
	REGIONAL CAMPUSES U & R	1,000.0
	ATI U & R	250.0
	QARDC U & R	500.0
	ASBESTOS	2,000.0
2	DERBY HALL RENOVATION - PHASE II	2,575.0
3	HAMILTON HALL RENOVATION - PHASE II	8,300.0
4	DENTAL INSTRUCTIONAL LAB RENOVATION	3,000.0
5	LIBRARY BOOK WAREHOUSE	3,100.0
6	EVANS LAB ADDITION	4,100.0
7	CLASSROOM BLDG RENOVATION PHASE II	850.0
8	BIO SCIENCES/PARKS HALL ADDITION	20,325.0
9	GREENHOUSE MODERNIZATION	5,800.0
10	EQUINE CENTER	4,000.0
11	HEALTH CTR ACCESS RD PHASE I & II	9,900.0
12	DREESE LAB ADDITION	15,450.0
13	MENDENHALL LAB RENOVATION	11,100.0
14	RIGHTMIRE HALL REMODELING	4,500.0
15	SMITH LAB RENOVATION PHASE I	3,250.0
16	SISSON HALL RENOVATION	2,820.0
17	LAW BUILDING ADDITION AND RENOVATION	7,500.0
	TOTAL NEW APPROPRIATION REQUEST	136,320.0

CAPPL1

PROPOSED CAPITAL IMPROVEMENT PROJECT DESCRIPTION
(1989-90)

1A. GENERAL UTILITIES & RENOVATIONS -- COLUMBUS	\$13,000,000
(SEE ATTACHED LIST FOR PROJECTS)	
1B. PCB TRANSFORMER REMOVAL	\$8,000,000
REMOVE AND REPLACE 173 PCB TRANSFORMERS TO MEET FEDERAL EPA REQUIREMENTS	
1C. UTILITIES & RENOVATION -- REGIONAL CAMPUSES	\$1,000,000
(SEE ATTACHED LIST FOR PROJECTS)	
1D. UTILITIES & RENOVATION -- ATI	\$250,000
(SEE ATTACHED LIST FOR PROJECTS)	
1E. UTILITIES & RENOVATION -- OARDC	\$500,000
(SEE ATTACHED LIST FOR PROJECTS)	
1F. ASBESTOS ABATEMENT	\$2,000,000
THIS IS FOR ADDITIONAL FUNDS TO REMOVE AND/OR CONTAIN ASBESTOS MATERIALS BEYOND THOSE ALLOCATED BY THE OBR 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 BIENNIIUM.	
3. HAMILTON HALL RENOVATION - PHASE II	\$8,300,000
REPLACEMENT OF OBSOLETE MECHANICAL/UTILITY SYSTEMS IN 60 YEAR OLD BUILDING AND REMODELING OF TEACHING/RESEARCH LABORATORIES. THIS IS A TWO PHASE PROJECT. PHASE I WAS FUNDED LAST BIENNIIUM.	
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	\$3,100,000
THIS FACILITY WILL PROVIDE COMPACT STORAGE/PRESERVATION SPACE FOR 1.5 MILLION VOLUMES AS WELL AS NEW QUARTERS FOR UNIVERSITY ARCHIVES.	
6. EVANS LAB ADDITION	\$4,100,000
CONSTRUCTION OF AN ADDITION TO EVANS 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 \$850,000
- THIS IS PHASE II OF THE PROJECT TO CONVERT THE CENTRAL SERVICES BUILDING TO CLASSROOMS AND UNIVERSITY BOOKSTORE.
8. BIOSCIENCE/PARKS HALL ADDITION \$20,325,000
- 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.
9. GREENHOUSE MODERNIZATION \$5,300,000
- THIS PROJECT WILL REPLACE THE 40 YEAR OLD S&Z GREENHOUSES AND CONSTRUCT A NEW GREENHOUSE, ANIMAL QUARTERS AND GROWTH CHAMBERS FOR BIOTECHNOLOGY.
10. EQUINE CENTER \$4,800,000
- 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.
11. HEALTH CENTER ACCESS ROAD - PHASE I AND II \$9,900,000
- THIS PROJECT WILL CONSTRUCT AN EXIT RAMP FROM NORTHBUILD SR 315 TO CANNON - 9TH AVE. INTERSECTION AND WIDEN CANNON DRIVE FROM KING AVE. TO WOODY HAYES DRIVE.
12. DREESE LAB ADDITION \$15,450,000
- THIS PROJECT WILL CONSTRUCT AN ADDITION TO DREESE 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.
13. MENDENHALL LAB RENOVATION \$11,300,000
- 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.
14. RIGHTMIRE HALL REMODELING \$4,500,000
- THIS PROJECT WILL COMPLETE THE CONVERSION OF RIGHTMIRE HALL INTO THE OSU BIOTECHNOLOGY CENTER.
15. SMITH LAB RENOVATION - PHASE I \$3,250,000
- THIS PROJECT WILL REMODEL SPACE FOR THE DEPARTMENT OF ASTRONOMY.
16. SISSON HALL RENOVATION \$2,820,000
- THIS PROJECT WILL UPGRADE UTILITIES AND REMODEL FACILITIES TO MEET ACCREDITATION REQUIREMENTS.
17. LAW BUILDING ADDITION AND RENOVATION \$7,500,000
- THIS PROJECT WILL BUILD AN ADDITION TO THE LAW BUILDING FOR EXPANSION OF THE LAW LIBRARY AND REMODEL THE EXISTING BUILDING. \$7.5 MILLION IN PRIVATE FUNDS WILL SUPPLEMENT THIS PROJECT.

AUGUST 31, 1987 REPORT

APPENDIX IX

1989-91 BIENNIAL BUDGET ACTIVITIES AND PLANS

(See page 379)

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.

OHIO BOARD OF REGENTS
HIGHER EDUCATION OPERATING APPROPRIATIONS
(Thousands)

	Final Appropriation 1987-1988	1988-1989	Regents' Recommendation 1988-1990	1990-1991
INSTRUCTION				
Instructional Subsidies	\$1,043,328.1	\$1,083,643.2	\$1,249,929.8	\$1,408,974.7
SELECTIVE EXCELLENCE				
Eminent Scholar	\$0.0	\$4,500.0	\$0.0	\$4,500.0
Program Excellence	0.0	3,000.0	0.0	3,000.0
Academic Challenge	11,000.0	11,400.0	13,300.0	14,700.0
Research Challenge	10,563.8	12,546.1	13,298.9	14,163.3
Productivity Challenge	2,200.0	2,200.0	3,880.0	3,820.0
Ohio Supercomputer	3,000.0	4,500.0	5,000.0	4,500.0
Library Access System	0.0	0.0	250.0	250.0
Indeo College Challenge	0.0	0.0	0.0	1,000.0
Sub-Total	\$26,763.8	\$38,146.1	\$35,428.9	\$45,933.3
ACCESS				
Ohio Instructional Grants	\$50,500.0	\$54,860.0	\$69,000.0	\$88,200.0
Single Parent Grants	0.0	0.0	4,000.0	5,000.0
Mar Orphans	1,520.2	1,931.0	2,203.9	2,568.3
Academic Scholarships	3,581.0	3,581.0	3,581.0	3,581.0
Developmental Education	2,017.0	2,087.7	5,000.0	5,323.0
Urban Initiatives	199.5	199.5	300.0	300.0
Central State Supplement	8,088.8	8,088.8	8,225.0	8,225.0
Student Choice Grants	15,527.4	15,527.4	21,000.0	22,900.0
Access Improv Projects	150.0	150.0	450.0	450.0
Access/Retention Incentive	0.0	0.0	9,123.8	10,084.0
Minority Graduate Opportunity	0.0	0.0	2,000.0	2,250.0
Early Intervention	0.0	0.0	2,000.0	4,000.0
School/College Transitions	0.0	0.0	750.0	750.0
Demonstration Laboratories	0.0	0.0	600.0	600.0
Sub-Total	\$81,593.6	\$88,438.1	\$128,243.8	\$154,180.3
RESEARCH, PUBLIC SERVICE, MISC				
Aerospace Institute	0.0	0.0	440.0	264.0
Undergraduate Improvement	0.0	0.0	48.0	3,048.0
Agriculture R & D Center	\$19,181.1	\$19,541.8	20,714.1	22,080.8
Cooperative Extension	11,224.4	11,463.3	12,880.5	13,408.8
Urban Universities	2,568.4	2,688.1	3,178.2	3,412.0
Labor Education Service	1,211.9	1,211.8	1,288.6	1,388.1
Displaced Homemakers	268.0	279.7	296.8	316.8
OSU-Sea Grants	198.8	198.8	211.8	228.2
Artificial Intelligence	380.0	380.0	371.0	386.1
OU-Innovation Center	187.8	187.0	188.2	211.1
Rural University Projects	254.0	268.0	288.1	353.7
Central St Water Resources	300.0	300.0	318.0	338.7
Cleveland St Haz Mat Prog	100.0	190.0	150.0	189.3
Shawnee State U. Supplement	1,000.0	3,200.0	4,000.0	4,000.0
Sub-Total	\$38,812.3	\$39,810.1	\$44,881.7	\$48,520.4
HEALTH HANDBOOK				
Clinical-Medicine				
OSU	\$13,808.8	\$13,808.8	14,884.0	15,848.2
UC	11,188.4	11,188.4	12,088.8	12,871.2
MCOT	8,722.3	8,722.3	9,438.1	10,032.4
YSU	4,988.8	4,988.8	4,434.2	4,711.8
OU	4,988.8	4,988.8	4,434.2	4,711.8
WEDUCOM	4,988.8	4,988.8	4,434.2	4,711.8
Clinical-Dental				
and Vet Med	981.8	981.8	1,080.0	1,128.8
OSU-Medicine	5,188.3	5,188.3	5,818.8	5,878.8
-Dental	782.8	872.0	308.0	0.0
Primary Care	3,878.4	3,878.4	3,873.8	4,232.0
Family Practice	7,588.4	7,588.4	8,208.3	8,738.7
Geriatric Med	1,329.7	1,329.7	1,836.1	1,742.4
Child Abuse Prevention	288.0	282.2	0.0	0.0
OSU Cancer Hospital	0.0	1,000.0	0.0	0.0
Historic Clinical	1,000.0	1,225.0	1,298.8	1,382.8
Area Health Educ Center	1,700.0	1,900.0	2,184.8	2,584.7
Medical Education Finance Study	0.0	0.0	250.0	0.0
Sub-Total	\$68,348.8	\$68,561.3	\$73,972.8	\$78,444.4
PLANNING & COORDINATION				
Personnel Services	\$2,817.4	\$2,181.8	\$2,498.0	\$2,868.0
Maintenance	748.3	762.8	800.0	848.8
Equipment	10.0	23.8	48.0	48.0
Library Planning	48.8	0.0	0.0	0.0
Information Systems Improvement	0.0	0.0	280.0	250.0
Sub-Total	\$2,817.2	\$2,948.8	\$3,588.8	\$3,788.8
FACILITIES				
Facilities Renovation	\$0.0	\$0.0	\$18,788.8	\$18,788.8
Equipment Replacement	0.0	0.0	13,088.0	13,088.0
Police & Fire	288.8	288.8	281.7	308.1
OSU-Telecommunications	1,000.0	0.0	0.0	0.0
Sub-Total	\$1,288.8	\$288.8	\$31,888.7	\$32,808.1
TOTAL	\$1,288,918.2	\$1,328,888.8	\$1,567,237.8	\$1,772,833.1
Debt Service	\$188,888.0	\$225,748.0		
GRAND TOTAL	\$1,448,888.2	\$1,548,548.8		

Revised 9-14-88

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.

STRONG BASE BUDGETS - INSTRUCTIONAL SUBSIDY -- CONTINUED

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
1989-1991 BUDGET REQUEST

OVERVIEW

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

behalf 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 agribusiness 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 G. 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

	1985-87 Actual	1987-89 Estimate	1989-91 Request
INSTRUCTIONAL SUBSIDY			
Columbus Campus	425,393,184	474,735,209	613,298,742
Regional Campuses			
Lima	3,487,015	4,205,689	5,765,126
Mansfield	3,638,292	4,174,648	5,845,820
Marion	2,578,992	3,469,970	4,759,265
Newark	3,112,995	4,130,327	6,549,059
Agricultural Technical Institute	5,272,150	6,898,875	8,271,352
Subtotal Regional Campuses	18,089,444	22,899,509	31,190,622
TOTAL INSTRUCTIONAL	443,482,628	497,634,718	644,489,364
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:			
OARDC	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	0	1,000,000	6,000,000
Developmental Education			
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	2,272,554	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	325,000
Ohio State Biotechnology Center	0	0	3,351,000
Marion Student Services	249,375	0	0
TOTAL LINE-ITEMS	93,048,564	98,181,789	144,633,780
GRAND TOTALS			
COLUMBUS	500,699,531	558,098,065	786,824,216
REGIONALS	19,249,744	23,757,770	32,254,623
OARDC	36,925,984	38,692,655	51,577,292
TOTAL ALL CAMPUSES	556,875,259	620,548,490	870,656,131
OTHER RECENTS APPROPRIATIONS			
Math & English Testing	413,895	359,000	(1)
Urban University Center	185,000	198,953	(1)
Area Health Education Centers	262,436	383,779	(1)
Cancer Control Consortium	1,672,660	0	(2)
OTHER RECENTS 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

FORMULA-BASED INSTRUCTIONAL SUBSIDIES

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

<u>Budget Summary</u>	<u>1989-90</u>	<u>1990-91</u>
Budget Request	\$5,000,000	\$5,000,000

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 Ferrysburg 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.

THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Ohio Agricultural Research and Development Center

Budget Summary
(\$ in thousands)

Sources Of Income	ACTUAL	ESTIMATED		PROJECTED	
	<u>1986-87</u>	<u>1987-88</u>	<u>1988-89</u>	<u>1989-90</u>	<u>1990-91</u>
Federal	\$ 4,962	\$ 5,212	\$ 5,320	\$ 5,374	\$ 5,400
State	18,776	19,151	19,542	23,837	27,740
Local	0	0	0	0	0
Grants & Contracts	3,015	3,050	3,100	3,150	3,200
Private	1,563	1,570	1,575	1,580	1,600
Other ¹	<u>1,598</u>	<u>1,600</u>	<u>1,610</u>	<u>1,620</u>	<u>1,640</u>
TOTAL OPERATING INCOME ²	\$29,914	\$30,583	\$31,147	\$35,561	\$39,580
 <u>Operating Expense</u>					
Personnel	\$21,481	\$23,289	\$24,290	\$26,101	\$28,403
All Other	<u>8,433</u>	<u>7,294</u>	<u>6,857</u>	<u>9,460</u>	<u>11,177</u>
TOTAL EXPENSE	\$29,914	\$30,583	\$31,147	\$35,561	\$39,580

¹Funds derived from sale of research by-products.

²Does 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

	<u>ACTUAL</u> <u>1987-89</u>	<u>PROJECTED</u> <u>1989-91</u>
BASE BUDGET	\$38,692,642	\$51,577,292
USES:		
Operations	31,092,642	33,357,903
(1) Current New Programs Underway	7,600,000	8,166,315
(2) New Scientific Priorities	<u>0</u>	<u>10,053,074</u>
TOTAL USES	38,692,642	51,577,292
(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 Agricul- tural Systems
		<u>With Cooperative Extension</u>
		Community Development & Economic Revitalization Family Strengths Youth Development

Ohio Agricultural Research and Development Center

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 toxicology 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)

Sources Of Income	ACTUAL	ESTIMATED		PROJECTED	
	<u>1986-87</u>	<u>1987-88</u>	<u>1988-89</u>	<u>1989-90</u>	<u>1990-91</u>
Federal	\$10,321	\$10,390	\$10,598	\$10,810	\$11,026
State	9,965	11,224	11,453	14,255	16,253
County	8,839	9,164	9,531	9,912	10,308
Private	0	0	0	0	0
Other	<u>428</u>	<u>486</u>	<u>486</u>	<u>486</u>	<u>486</u>
TOTAL OPERATING INCOME	\$29,553	\$31,264	\$32,068	\$35,463	\$38,073
<u>Operating Expense</u>					
Personnel	\$25,142	\$26,574	\$27,258	\$30,144	\$32,362
All Other	<u>4,411</u>	<u>4,690</u>	<u>4,810</u>	<u>5,319</u>	<u>5,711</u>
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. More

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

	<u>Actual</u> 1987-88	<u>Estimated</u> 1988-89		
			<u>Requested</u>	
			<u>1989-90</u>	<u>1990-91</u>
				<u>Total</u>
Base	\$11,224,400	\$11,453,200	\$11,453,200	\$25,708,124
Increased Costs ^a			801,724	1,799,568
Strengthened & New Programs			<u>2,000,000</u>	<u>3,000,000</u>
Total			\$14,254,924	\$30,507,692

a) Calculated at 7% per year

Table 1. Ohio Cooperative Extension Service Faculty (FTE)

	80-81	83-84	84-85	85-86	86-87	87-88	88-89*	Percent Decrease From 81 to 89
Central Campus District Centers	104	87	79	75	84	67	72	(31%)
County Agents	56	42	38	34	36	32	35	(38%)
	<u>278</u>	<u>248</u>	<u>240</u>	<u>248</u>	<u>244</u>	<u>212</u>	<u>205</u>	(26%)
TOTAL	438	377	357	357	364	311	312	(29%)

* As of 7/1/89

Table 2. Sources of Funds - Cooperative Extension Services

	<u>Percent</u>			
	<u>Federal</u>	<u>State</u>	<u>County</u>	<u>Other</u>
Ohio (FY 87-88)	34.4	35.4	28.7	1.5
National Average (FY 87-88)	30.0	48.3	18.4	3.3
Ohio (proposed 89-90)	30.5	40.2	27.9	1.4
Ohio (proposed 90-91)	29.0	42.7	27.1	1.3

THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Medical Clinical Teaching and Research

Budget Summary

	<u>1989-90</u>	<u>1990-91</u>
Full Continuation Funding	\$15,353,540	\$16,721,560

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

	<u>1989 - 1990</u>	<u>1990 - 1991</u>
Indirect Costs of Medical Education:		
Cameron Method	\$31,853,000	
Federal Formula	<u>27,269,000</u>	
Average Indirect Medical Education Costs	\$29,561,000	\$31,039,000
Clinical Support of Allied Health Programs	5,692,000	5,976,000
Other <u>Direct</u> Costs of Clinical Operations	<u>11,525,000</u>	<u>12,101,000</u>
 Total Direct and Indirect Costs of Medical Education	 46,778,000	 49,116,000
 <u>Identified Sources of Education Funds</u>		
Medicare Reimbursement for Direct Education	\$7,476,000	7,849,000
Medicare Reimbursement for Indirect Education	7,302,000	7,667,000
Medicaid/Welfare Payment for Education	<u>7,742,000</u>	<u>8,129,000</u>
 Direct Reimbursement Sources	 <u>22,520,000</u>	 <u>23,645,000</u>
 Shortage	 <u>\$24,258,000</u>	 <u>\$25,471,000</u>

THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Health Professions Clinics Support

Budget Summary

	<u>1989-90</u>	<u>1990-91</u>
Budget Request	\$1,276,000	\$1,370,000

Program Statement Summary

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.

THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Arthur G. James Cancer Hospital and Research Institute

Budget Summary

	<u>1989-90</u>	<u>1990-91</u>
Budget Request	\$3,000,000	\$3,000,000

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

<u>Columbus Campus</u>	<u>1989-90</u>	<u>1990-91</u>	<u>Total</u>
Budget Request	\$184,000	\$192,700	\$376,700

Regional Campuses

Budget Request	\$ 77,447	\$ 86,554	\$164,001
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Total University

Budget Request	\$261,447	\$279,254	\$540,701
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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 more students reading 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

	Fiscal Year 1990			
	TOTAL FUNDS	STATE FUNDS	FEDERAL FUNDS	INSTITUTIONAL FUNDS
Academic Tutoring	85,500	85,500	-	-
Learning Labs	98,500	98,500	-	-
Other (academic advising and non-academic counseling)	154,437	-	-	154,437
TOTAL	338,437	184,000	-	154,437

2. Number of Students to be Served (unduplicated annual count)

3350

1. Category of Expenditure

	Fiscal Year 1991			
	TOTAL FUNDS	STATE FUNDS	FEDERAL FUNDS	INSTITUTIONAL FUNDS
Academic Tutoring	89,275	89,275	-	-
Learning Labs	103,425	103,425	-	-
Other (academic advising and non-academic counseling)	163,158	-	-	162,158
TOTAL	354,858	192,700	-	162,158

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

	Fiscal Year 1990			
	TOTAL FUNDS	STATE FUNDS	FEDERAL FUNDS	INSTITUTIONAL FUNDS
Academic Tutoring	32,527	14,637	-	17,890
Learning Labs	9,461	4,257	-	5,204
Other	-	-	-	-
TOTAL	41,988	18,894	-	23,094

2. Number of Students to be Served (unduplicated annual count)

350

1. Category of Expenditure

	Fiscal Year 1991			
	TOTAL FUNDS	STATE FUNDS	FEDERAL FUNDS	INSTITUTIONAL FUNDS
Academic Tutoring	33,828	15,222	-	18,606
Learning Labs	9,839	4,427	-	5,412
Other	-	-	-	-
TOTAL	43,667	19,649	-	24,018

2. Number of Students to be Served (unduplicated annual count)

360

Developmental Education - Mansfield

1. Category of Expenditure

	Fiscal Year 1990			
	TOTAL FUNDS	STATE FUNDS	FEDERAL FUNDS	INSTITUTIONAL FUNDS
Academic Tutoring	10,000	8,500	-	1,500
Learning Labs	33,500	15,000	-	18,500
Other	-	-	-	-
TOTAL	43,500	23,500	-	20,000

2. Number of Students to be Served (unduplicated annual count)

600

1. Category of Expenditure

	Fiscal Year 1991			
	TOTAL FUNDS	STATE FUNDS	FEDERAL FUNDS	INSTITUTIONAL FUNDS
Academic Tutoring	10,500	8,500	-	2,000
Learning Labs	35,175	16,175	-	19,000
Other	-	-	-	-
TOTAL	45,675	24,675	-	21,000

2. Number of Students to be Served (unduplicated annual count)

600

Developmental Education - Marion

1. Category of Expenditure

	Fiscal Year 1990			
	TOTAL FUNDS	STATE FUNDS	FEDERAL FUNDS	INSTITUTIONAL FUNDS
Academic Tutoring	23,400	7,000	-	16,400
Learning Labs	8,400	5,000	-	3,400
Other	5,000	-	-	5,000
TOTAL	36,800	12,000	-	24,800

2. Number of Students to be Served (unduplicated annual count)

200

1. Category of Expenditure

	Fiscal Year 1991			
	TOTAL FUNDS	STATE FUNDS	FEDERAL FUNDS	INSTITUTIONAL FUNDS
Academic Tutoring	24,800	7,500	-	17,300
Learning Labs	9,000	5,500	-	3,500
Other	5,500	-	-	5,500
TOTAL	36,300	13,000	-	26,300

2. Number of Students to be Served (unduplicated annual count)

200

Developmental Education - Newark

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

	TOTAL FUNDS	STATE FUNDS	FEDERAL FUNDS	INSTITUTIONAL FUNDS
Academic Tutoring	16,265	10,158	-	6,107
Learning Labs	19,849	12,901	-	6,948
Other*	13,555	-	-	13,555
TOTAL	49,669	23,059	-	26,610

*DE courses (non-college credit)

2. Number of Students to be served (unduplicated annual count)

570

1. Category of Expenditure: Fiscal Year 1991

	TOTAL FUNDS	STATE FUNDS	FEDERAL FUNDS	INSTITUTIONAL FUNDS
Academic Tutoring	17,259	10,767	-	6,492
Learning Labs	21,040	13,675	-	7,365
Other*	14,368	-	-	14,368
TOTAL	52,667	24,442	-	28,225

*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			
	TOTAL FUNDS	STATE FUNDS	FEDERAL FUNDS	INSTITUTIONAL FUNDS
Academic Tutoring	20,000	5,000	-	15,000
Learning Labs	34,000	2,000	2,000	30,000
Other	6,000	-	-	6,000
TOTAL	60,000	7,000	2,000	51,000

2. Number of Students to be Served (unduplicated annual count)

400

1. Category of Expenditure

	Fiscal Year 1991			
	TOTAL FUNDS	STATE FUNDS	FEDERAL FUNDS	INSTITUTIONAL FUNDS
Academic Tutoring	24,000	6,000	-	18,000
Learning Labs	40,000	3,000	2,000	35,000
Other	7,000	-	-	7,000
TOTAL	71,000	9,000	2,000	60,000

2. Number of Students to be Served (unduplicated annual count)

450

THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Labor Education and Research Service

Budget Summary

	<u>1989-90</u>	<u>1990-91</u>
Budget Request	\$2,139,957	\$2,182,038

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.

Table I
 LERS Programs
 Fiscal Years 1976-77 through 1987-88

<u>Year</u>	<u>Programs</u>	<u># of Students</u>
1976-77	176	7,353
1977-78	167	7,288
1978-79	239	9,467
1979-80	276	9,568
1980-81	228	7,420
1981-82	202	6,611
1982-83	201	7,185
1983-84	215	8,388
1984-85	242	8,154
1985-86	230	7,678
1986-87	220	7,989
1987-88	229	8,301

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 semi-conductors 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

	<u>1989-90</u>	<u>1990-91</u>
Budget Request Components:		
Departmental		
Undergraduate (Medical School)	\$ 255,000	\$ 281,000
Graduate (Residencies, etc.)	1,198,000	1,317,000
Collaborative Activities	380,000	400,000
Focus On Underserved Populations	<u>50,000</u>	<u>55,000</u>
TOTAL	\$1,883,000	\$2,053,000
Number of Residents to be Supported:		
	<u>96</u>	<u>98</u>

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.

THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Primary Care

Budget Summary

	<u>1989-90</u>	<u>1990-91</u>
Budget Request Components*	\$ 600,000	\$ 648,000
Departmental		
Undergraduate (Medical School)		
Graduate (Residencies, etc.)		
Collaborative Activities		
Focus On Underserved Populations	_____	_____
TOTAL	\$ 600,000	\$ 648,000

* 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:	<u>94</u>	<u>98</u>
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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.

THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Geriatric Medicine and Gerontology

Budget Summary

	<u>1989-90</u>	<u>1990-91</u>
Budget Request Components:		
Office	\$ 155,000	\$ 165,000
Research	90,000	110,000
Other Educational Activities	<u>95,000</u>	<u>120,000</u>
TOTAL	\$ 340,000	\$ 395,000

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 currently 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.

THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Maternal and Child Health Institute

Budget Summary

	<u>1989-90</u>	<u>1990-91</u>
Budget Request	\$ 800,000	\$ 800,000

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

	<u>1989-90</u>	<u>1990-91</u>
Budget Request	\$ 800,000	\$ 800,000

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.

THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Ohio Sea Grant Program

Budget Summary

	<u>1989-90</u>	<u>1990-91</u>
Budget Request	\$ 385,000	\$ 385,000

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

	<u>1989-90</u>	<u>1990-91</u>
Budget Request	\$250,000	\$275,000

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 OCFID 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.

THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Ohio State Biotechnology Center

Budget Summary

	<u>1989-90</u>	<u>1990-91</u>
Budget Request	\$1,577,000	\$1,774,000

Program Statement Summary

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.

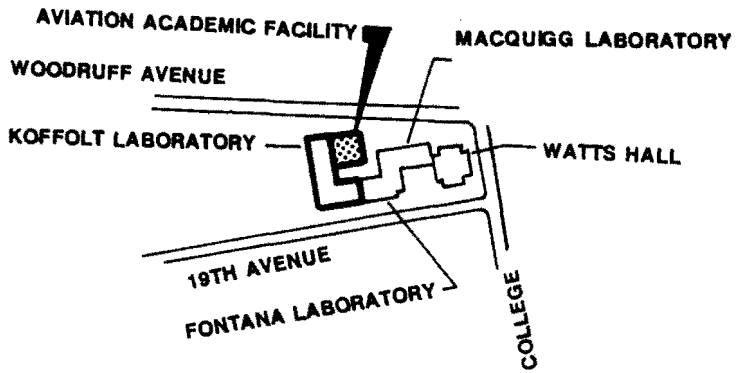
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APPENDIX X

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.

	Low Bid	Estimate of Cost
General Contract		
Base Bid	\$330,000.00	\$542,700.00
Alt. G-1 (Isolation Rooms)	+24,000.00	+40,000.00
Alt. G-2 (Rooms 105A, 106, 106 A&B, 107, 108 & 109)	+27,000.00	+42,000.00
Alt. G-4 (Dog run gates)	+23,000.00	+19,000.00
Alt. G-5 (Flush valves in Room 112)	+4,000.00	+2,000.00
Total General Contract	\$408,000.00	\$645,700.00
Plumbing Contract		
Base Bid	\$38,376.00	\$39,009.00
Alt. P-1 (Isolation Rooms)	+2,300.00	+3,500.00
Alt. P-2 (Rooms 105A, 106, 106 A&B, 107, 108 & 109)	+13,340.00	+11,900.00
Alt. P-5 (Flush valves in Room 112)	+5,060.00	+14,450.00
Total Plumbing Contract	\$59,076.00	\$68,859.00

**VETERINARY HOSPITAL
UPGRADING LABORATORY ANIMAL FACILITIES (Cont)**

	Low Bid	Estimate of Cost
HVAC Contract		
Base Bid	\$217,300.00	\$167,291.00
Alt. H-1 (Isolation Rooms)	+30,000.00	+20,000.00
Alt. H-2 (Rooms 105A, 106, 106 A&B, 107, 108 & 109)	+7,500.00	+11,450.00
Total HVAC Contract	\$254,800.00	\$198,741.00
Electric Contract		
Base Bid	\$68,400.00	\$76,000.00
Alt. E-1 (Isolation Rooms)	+7,100.00	+8,135.00
Alt. E-2 (Rooms 105A, 106 106 A&B, 107, 108 & 109)	+3,100.00	+1,950.00
Total Electric Contract	\$78,600.00	\$86,085.00
TOTAL ALL CONTRACTS	\$800,476.00	\$999,385.00
TOTAL PROJECT COST	\$1,000,000.00	

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**

Bids Received - The Division of Public Works
 Date Received - September 14, 1988
 Opened By - J. Sutton
 Tabulated By - D. Braden

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>	<u>ALT. G-1</u>	<u>ALT. G-2</u>	<u>ALT. G-3</u>
Estimate of Cost	\$542,700.00	+\$40,000.00	+\$42,000.00	+\$8,000.00
* Concept Construction Co.	\$330,000.00	+\$24,000.00	+\$27,000.00	+\$7,000.00
Sherman R. Smoot Co.	351,200.00	+28,000.00	+37,600.00	+7,300.00
William Cargile Contr., Inc.	354,400.00	+25,000.00	+30,500.00	+66,500.00
Cody-Zeigler, Inc.	597,000.00	+35,000.00	+30,000.00	+8,000.00
<u>GENERAL CONTRACT (cont)</u>	<u>ALT. G-4</u>	<u>ALT. G-5</u>	<u>ALT. G-6</u>	
Estimate of Cost	\$19,000.00	+\$2,000.00	+\$7,200.00	
* Concept Construction Co.	+23,000.00	+4,000.00	+12,000.00	
Sherman R. Smoot Co.	+18,500.00	+3,400.00	+11,400.00	
William Cargile Contr., Inc.	+27,000.00	+4,000.00	+10,700.00	
Cody-Zeigler, Inc.	+23,000.00	+2,500.00	+1,500.00	
<u>PLUMBING CONTRACT</u>	<u>BASE BID</u>	<u>ALT. P-1</u>	<u>ALT. P-2</u>	<u>ALT. P-5</u>
Estimate of Cost	\$39,009.00	+\$3,500.00	+\$11,900.00	+\$14,450.00
* Williamson Builders, Inc.	\$38,376.00	+\$2,300.00	+\$13,340.00	+\$5,060.00
Edmonds Mechanical	47,500.00	+3,553.00	+12,046.00	+10,813.00

TABULATION OF BIDS (Cont)

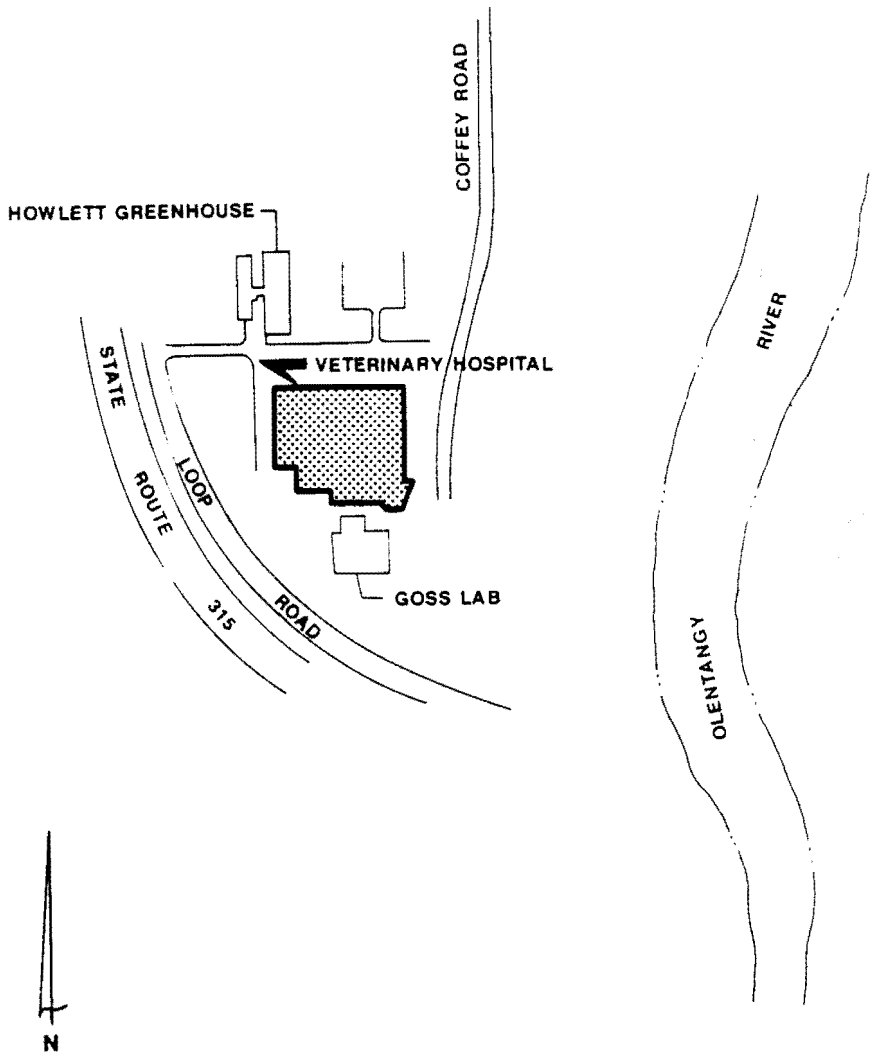
**UPGRADE LABORATORY ANIMAL FACILITIES
VETERINARY HOSPITAL (cont)**

<u>HVAC CONTRACT</u>		<u>BASE BID</u>	<u>ALT. H-1</u>	<u>ALT. H-2</u>
Estimate of Cost		\$167,291.00	+\$20,050.00	+\$11,450.00
+	Aries-CH & V (AJV)	\$198,595.00	+\$33,900.00	+\$11,200.00
*	Wayne Mech./J.A. Guy (AJV)	217,300.00	+30,000.00	+7,500.00
	Williamson Builders, Inc.	234,116.00	+37,400.00	+15,950.00
	Edmonds Mechanical	339,380.00	+51,738.00	+11,286.00
<u>ELECTRIC CONTRACT</u>		<u>BASE BID</u>	<u>ALT. E-1</u>	<u>ALT. E-2</u>
Estimate of Cost		\$76,000.00	+\$8,135.00	+\$1,950.00
*	Avant Contr./Romanoff Elec.(AJV)	\$68,400.00	+\$7,100.00	+\$3,100.00
	Advantage Electric, Inc.	73,698.00	+7,716.00	+2,878.00
	WECS/NEWCO (AJV)	75,472.00	+8,987.00	+2,084.00
	Aries-States Electric (AJV)	76,500.00	+9,650.00	+2,700.00

+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.

	Low Bid	Estimate of Cost
Mechanical Contract		
Base Bid	\$122,700.00	\$165,000.00
Alt. M-1 (Chiller modifications)	+57,600.00	
Total Mechanical Contract	\$180,300.00	\$165,000.00
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

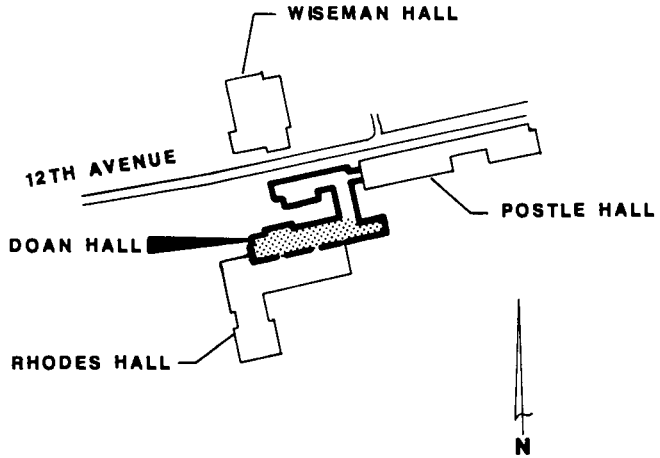
TABULATION OF BIDS (Cont)
DOAN HALL CHILLER STATION RENOVATION

Bids Received - The Ohio State University
Date Received - October 5, 1988
Opened By - T. Bell
Tabulated By - B. Dunham

<u>MECHANICAL CONTRACT</u>	<u>BASE BID</u>	<u>ALT M-1</u>
Estimate of Cost	\$185,000.00	
* 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	179,700.00	+61,000.00

*Contract awarded this bidder including Alternate M-1.

DOAN HALL - CHILLER STATION RENOVATION



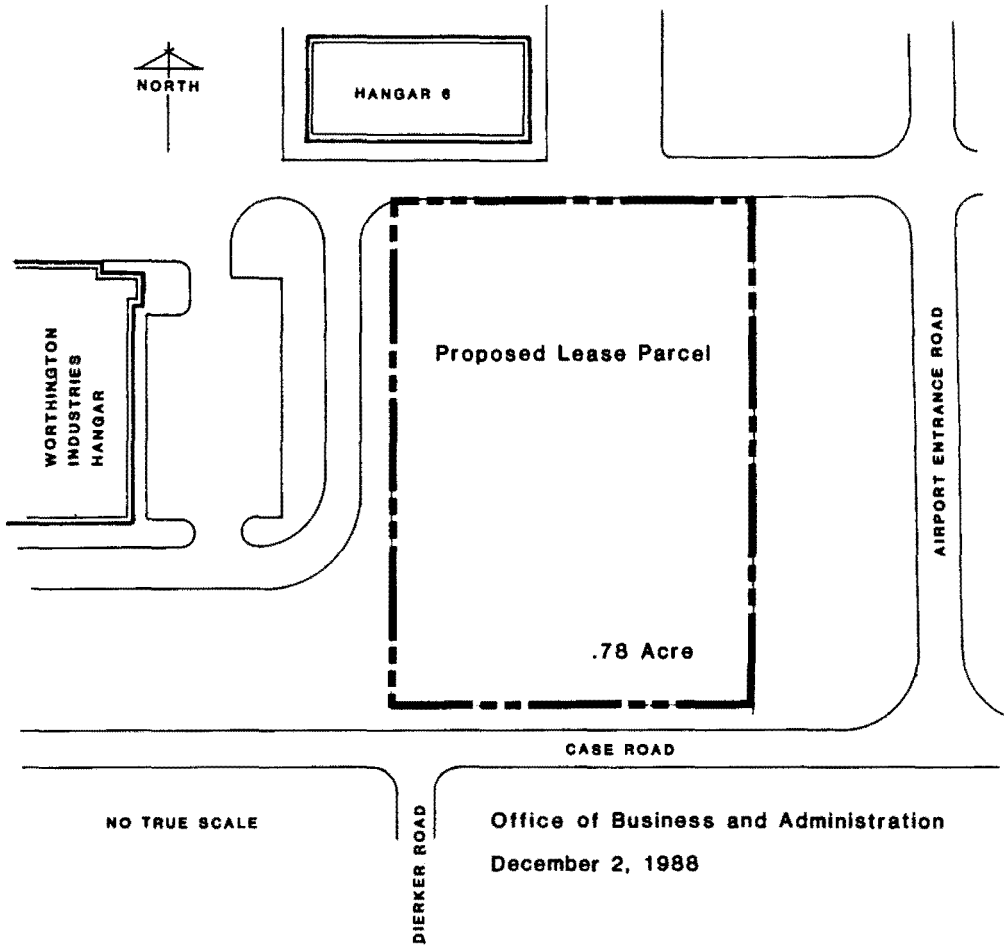
**OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 2, 1988**

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

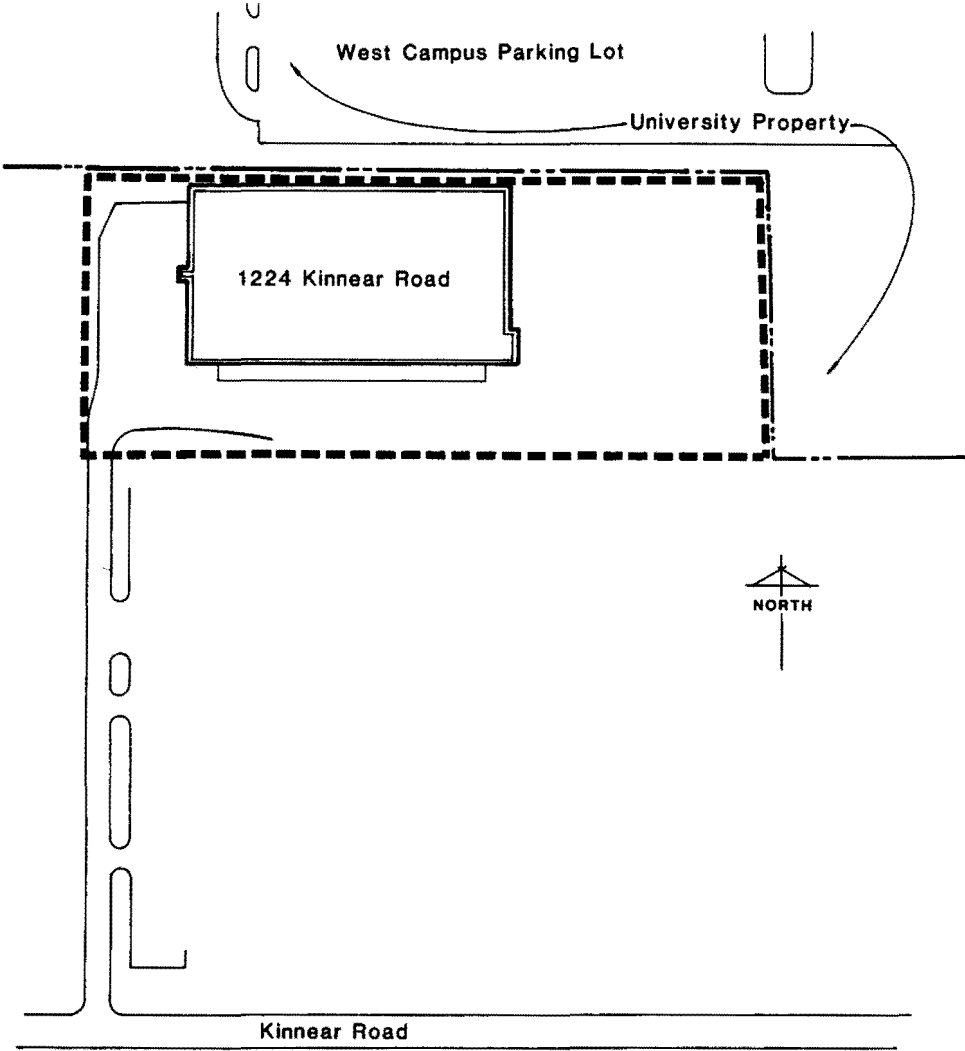


APPENDIX XIV

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



No True Scale

Office of Business and Administration
December 2, 1988

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RECORD OF PROCEEDINGS
OF THE
BOARD OF TRUSTEES
OF THE
OHIO STATE UNIVERSITY

COLUMBUS

July 1, 1988 to June 30, 1989

VOLUME 2

1988-1989

THE OHIO STATE UNIVERSITY

Edward H. Jennings, President

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	<u>Term Beginning</u>	<u>Term Expiring</u>
Leonard J. Immke, Columbus	May 14, 1980	May 13, 1989
John W. Berry, Dayton	May 14, 1981	May 13, 1990
Shirley D. Bowser, Williamsport	May 14, 1982	May 13, 1991
Hamilton J. Teaford, Columbus	May 14, 1983	May 13, 1992
John J. Barone, Toledo	May 14, 1984	May 13, 1993
Deborah E. Casto, Columbus	May 14, 1985	May 13, 1994
John W. Kessler, Columbus	May 14, 1986	May 13, 1995
Milton A. Wolf, Cleveland	May 14, 1987	May 13, 1996
Leslie H. Wexner, Columbus	May 14, 1988	May 13, 1997
Laurel A. Davis,* Tipp City	February 6, 1989	May 13, 1990
Sophia L. Paige,* Columbus	February 6, 1989 May 14, 1989	May 13, 1989 May 13, 1991

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THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FORTY-EIGHTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, February 3, 1989

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.

** ** *

February 3, 1989 meeting, Board of Trustees

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.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, and Leslie H. Wexner.

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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

REPORT ON THE COLLEGE OF EDUCATION (contd)

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

REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson: (contd)

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 Koenigsnecht 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; Nationwide; 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 Service 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 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

REPORT ON THE COLLEGE OF EDUCATION (contd)

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 shot gun 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 robotics and how robotics 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

REPORT ON THE COLLEGE OF EDUCATION (contd)

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

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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 cited 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 somehow 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 --

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REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson:

It is a staffing problem, I am convinced.

Mrs. Bowser:

When you cited 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?

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.

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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.

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 projects 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.

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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 Beechwood 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

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.

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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.

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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

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.

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.

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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.

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.

DEMOGRAPHICS (contd)

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.

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.

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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.)

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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?

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.)

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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+ 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.

**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.

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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.

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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.

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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.

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*
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*Acting Chair or Director

Reappointment of Chairpersons of Departments

July 1, 1989 through June 30, 1993

ATI - General Studies	Clyde E. Opliger
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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. BONDYBEY, 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.

February 3, 1989 meeting, Board of Trustees

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.

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.

PERSONNEL ACTIONS (contd)

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.

LANSING 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.

February 3, 1989 meeting, Board of Trustees

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.

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. HOTHAM, 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.

PERSONNEL ACTIONS (contd)

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.

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

February 3, 1989 meeting, Board of Trustees

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 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 R. Connor

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 17, 1988, of Laurence R. 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 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 served 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 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 Göttingen, 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 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.

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 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 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.

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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 Koenigsnecht 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

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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 condemnatory 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 --

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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 Riemen-schneider 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.

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Ms. Yiamouyiannis: (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 Yiamouyiannis:

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 75f.)

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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 agri-business 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.

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.)

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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:

**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.)

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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,

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.

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

SUMMARY FOR NOVEMBER 1988

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	84	\$6,931,304.50
Engineering Experiment Station	32	\$ 160,993.00
Total	116	\$7,092,297.50
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		

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

SUMMARY FOR DECEMBER 1988

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	93	\$11,102,535.08
Engineering Experiment Station	60	\$ 36,918.00
Total	153	\$11,139,453.08

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. Moellering), 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)

\$360,000.00 - Department of the Navy, Office of Naval Research, Arlington, VA, Joint Services Electronics Program, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr., P. H. Pathak, E. H. Newman, R. T. Compton, and R. C. Chou), 1 October 1988 through 30 September 1991. (Project 767124 - 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)

\$196,595.00 - Department of Education, Office of Postsecondary Education, Washington, DC, Title III -- Development and Improvement of Academic Programs, Agricultural Technical Institute - Administrative Support (D. D. Garrison), 1 October 1988 through 30 September 1989. (Project 766437 - Continuation)

\$190,000.00 - Department of the Army, Army Corps of Engineers, Vicksburg, MS, 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)

\$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 31 October 1989. (Project 767140 - New)

\$88,430.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, DC, Laser Diagnostics of Plasma Thrusters, Department of Aeronautical and Astronautical Engineering (T. M. York), 1 December 1988 through 30 November 1989. (Project 767158 - 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. Malspeis), 1 November 1988 through 13 April 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)

\$72,936.00 - National Science Foundation, Washington, DC, Manipulation of Objects by Means of Phased Movements of Multiple Fingers, Department of Mechanical Engineering (K. J. Waldron), 1 December 1988 through 31 March 1990. (Project 766443 - Continuation)

\$69,655.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH, 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), 9 January 1989 through 8 January 1990. (Project 765863 - Continuation)

\$64,175.00 - Department of the Air Force, Air Force Systems Command, Griffis Air Force Base, NY, Explanation in Problem-Solving and Planning Systems, Department of Computer and Information Science (B. Chandrasekaran), 1 October 1988 through 15 1989. (Project 764562 - Continuation)

\$56,233.00 - National Science Foundation, Washington, DC, 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), 15 October 1988 through 14 October 1989. (Project 767154 - New)

\$50,000.00 - Department of the Army, Army Materiel Command, Dover, NJ, Synthesis of Polynitro Cage Molecules, Department of Chemistry (L. A. Paquette), 1 May 1988 through 29 April 1990. (Project 765379 - Continuation)

\$48,890.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, DC, Stability of Boundary Layers at High Supersonic and Hypersonic Speeds, Department of Mechanical Engineering (T. Herbert), 1 October 1988 through 31 March 1989. (Project 766854 - Continuation)

\$48,144.00 - National Science Foundation, Washington, DC, Presidential Young Investigator Award, Department of Civil Engineering (M. R. McCord), 1 January 1989 through 31 December 1989. (Project 766242 - Continuation)

\$45,139.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD, Comparative Aspects of Peripheral Lung Mechanics, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 December 1988 through 30 November 1989. (Project 765821 - Continuation)

\$41,600.00 - National Science Foundation, Washington, DC, 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), 1 February 1989 through 31 January 1990. (Project 767155 - New)

\$37,000.00 - National Science Foundation, Washington, DC, Molecular Beam Reactions Involving Metal Hydroxides and Hydrides, Department of Chemistry (J. M. Parson), 1 June 1989 through 31 May 1990. (Project 765988 - Continuation)

\$36,229.00 - National Science Foundation, Washington, DC, Secular Climate and Atmospheric Circulation Fluctuations over the Atlantic Area, Department of Geography (J. C. Rogers), 1 November 1988 through 31 October 1989. (Project 767077 - 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)

\$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, Fc 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)

\$197,939.00 - General Electric Company, Cincinnati, OH, Electromagnetic Characterization of Design Features for Propulsion Systems, Department of Electrical Engineering, ElectroScience Laboratory (P. H. Pathak and L. Peters, Jr.), 1 November 1988 through 31 January 1990. (Project 767136 - New)

\$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

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)

Comparison with Vehicle, Department of Ophthalmology (R. H. Keates), 1 October 1988 through 1 June 1989. (Project 767143 - New)

\$15,000.00 - Bio-Metric Systems, Inc., Eden Prairie, MN, A Comparison of Intraocular Lens Toxicity Within the Rabbit Eye, Department of Ophthalmology (R. H. Keates), 12 September 1988 through 31 March 1989. (Project 767142 - New)

\$12,500.00 and Personnel Services - Oceanroutes, Inc., Sunnysvale, 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 767153 - 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 767138 - 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)

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)

\$80,000.00 - American Cancer Society, Atlanta, GA, Function of the Herpes Simplex Virus Deoxyribonuclease, Department of Microbiology and Immunology (D. S. Parris), 1 January 1989 through 31 December 1989. (Project 765525 - Continuation)

\$70,400.00 - Harold Wetterberg Foundation, Roseland, NJ, A Role of Prolactin and Growth Hormone Phosphorylation and Glycosylation in the Metabolism of the Cow, Department of Veterinary Pathobiology (C. L. Brooks), 1 June 1988 through 31 May 1991. (Project 767163 - New)

\$70,200.00 - Medical College of Ohio, Toledo, OH, Health Promotion, Disease Prevention for Poor, Underserved, and Minority Older Women, College of Medicine - Administration (G. L. Trzebiatowski), 1 October 1988 through 30 September 1989. (Project 767114 - New)

\$42,360.00 - United Nations, Rome, Italy, Identification of Genomic Alterations in Plant Tissue After Long-Term Storage of Seed, Department of Agronomy - OARDC and Department of Agronomy (J. C. Kamalay), 1 December 1988 through 30 November 1989. (Project 766128 - Continuation)

\$38,000.00 - University of Nebraska, Lincoln, NE, A Research/Extension Awareness Program for Low-Input Agriculture in Ohio, Department of Agronomy - OARDC and Department of Agronomy (D. J. Ecker and R. Lal), 1 June 1988 through 30 September 1989. (Project 767127 - New)

\$31,050.00 - People's Republic of China, Beijing, China, Training in American Enterprise, Trade, and Technology Transfer in the 21st Century for Representatives of the People's Republic of China, Department of Mechanical Engineering (R. E. Bailey), 1 June 1988 through 31 December 1988. (Project 766956 - Continuation)

\$29,575.00 - Hildegard Doerenkamp-Gerhard Zbinden Foundation 1, Chur, Switzerland, Cell Culture Model for Spinal Cord Injury, Department of Physiological Chemistry (L. A. Horrocks), 1 November 1988 through 31 October 1989. (Project 767162 - New)

\$26,299.00 - Children's Hospital, Columbus, OH, Intestinal Transplantation in Inbred Rats, Department of Surgery (C. G. Orosz), 1 August 1988 through 31 July 1989. (Project 767161 - New)

\$22,484.00 - University Space Research Association, Houston, TX, USRA Aeronautics Pilot Program, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 15 August 1988 through 15 June 1989. (Project 767119 - Continuation)

\$20,427.00 - North Central Regional Center for Rural Development, Ames, IA, Regional Survey of Operators and Their Farming Partners, 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 December 1989. (Project 767159 - New)

\$16,643.00 - Central Ohio Diabetes Association, Columbus, OH, The Effect of Exercise Training on the Metabolic and Microvascular Complications Associated with Non-Insulin Dependent Diabetes Mellitus, School of Health, Physical Education and Recreation (W. M. Sherman), Department of Internal Medicine (K. Osei), Department of Veterinary Physiology and Pharmacology (R. Hamlin), and School of Allied Medical Professions (K. Ward), 1 October 1988 through 30 September 1989. (Project 767152 - New)

\$16,166.00 - American Quarter Horse Association, Amarillo, TX, Effect of Exercise on Articular Cartilage Repair in the Horse, Department of Veterinary Clinical Sciences (L. R. Bramlage), 1 October 1988 through 30 September 1989. (Project 767151 - 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)

\$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)

\$14,500.00 - Ruth Mott Fund, Flint, MI, A Demonstration Farm Comparing Conventional High Input, Integrated Lower Input, and Organic Low Input Systems, Department of Entomology - OARDC (B. R. Stinner), 1 November 1988 through 31 October 1989. (Project 767160 - New)

\$12,420.00 - Japan-United States Friendship Committee, Washington, DC, Acquisition and Cataloging of Japanese Language Works Dealing with Japanese Industry, Labor, Technology, Business, and Policymaking, University Libraries (M. Donovan), 1 October 1988 through 30 September 1989. (Project 767164 - Continuation)

\$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

\$54,000.00 - Edison Materials Technology Center, Kettering, OH, "Sheet Metal Formability: Evaluation and Development of Testing," Department of Materials Science and Engineering, 1 October 1988 through 31 March 1990. 88 through 31 March 1990. (312486)

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.

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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 it 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.

February 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 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.

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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.

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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.

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 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)

\$280,000.00 - Department of Energy, Argonne, Illinois, High Energy Physics, Department of Physics (High Energy Physics Group: S. Durkin, H. P. Kagan, R. D. Kass, K. D. Lane, T. Y. Ling, A. J. Niemi, W. F. Palmer, S. S. Pinsky, N. W. Reay, K. Reibel, T. A. Romanowski, J. Shigemitsu, R. A. Sidwell, N. R. Stanton, G. Steigman, K. Tanaka, and W. W. Wada), 16 November 1988 through 31 December 1988. (Project 762116 - 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. Cassidy 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. Malspeis), 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)

\$119,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Identification of Airborne Radar Targets, ElectroScience Laboratory, Department of Electrical Engineering (E. K. Walton, F. D. Garber and R. L. Moses), 11 January 1989 through 30 April 1989. (Project 765216 - Continuation)

\$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. McClenahan), 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 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Ultrasonic Near-Subbottom Characterization and Correlation with Time Variations in Entrainment and Deposition, Department of Civil Engineering (K. W. Bedford and C. M. Libicki), 1 January 1989 through 31 December 1989. (Project 766605 - Continuation)

\$45,000.00 - National Aeronautics and Space Administration, Washington, D.C., Cellular Polarity and Interactions in Plant Gravisperception, Department of Botany (F. D. Sack), 15 December 1988 through 14 December 1989. (Project 764883 - Continuation)

\$39,923.00 - 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)

\$29,447.00 - 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), 1 October 1988 through 30 September 1989. (Project 762621 - Continuation)

\$28,396.00 - 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 Unstructured Uncertainty, Department of Aeronautical and Astronautical Engineering (R. K. Yadavalli), 1 October 1988 through 15 September 1989. (Project 766964 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$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)

\$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. Huff), 1 June 1988 through 31 December 1988. (Project 766240 - Continuation)

\$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)

TOTAL - STATE OF OHIO AWARDS \$ 426,692.10

Industrial Research Contracts/Grants

\$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)

\$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)

\$90,000.00 - Roerig/Pfizer, New York, New York, A Prospective, Open, Non- Comparative Study of Cefoperazone-Sulbactam 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)

\$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)

\$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)

\$49,900.00 - Teledyne CAE, Toledo, Ohio, Propfan Characterization Study, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr.), 1 January 1989 through 31 December 1989. (Project 766312 - Continuation)

\$39,851.00 - Boeing Aerospace Company, Seattle, Washington, Frequency Selective Surfaces, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk and L. W. Henderson), 1 December 1988 through 30 November 1989. (Project 767222 - New)

\$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)

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)

\$37,307.27 - Merck and Company, Iselin, New Jersey, Determination of the Efficacy of Norfloxacin for the Treatment of Bacterial Skin Infections in Dogs, Department of Veterinary Clinical Sciences (J. J. Kowalski, K. W. Kwochka and D. J. Chew), 1 November 1988 through 31 January 1989. (Project 767204 - New)

\$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)

\$24,964.00 - General Electric Company, Cincinnati, Ohio, Electromagnetic Characterization of Detailed Design Features of Aircraft/Engine Exhaust Systems, ElectroScience Laboratory, Department of Electrical Engineering (P. H. Pathak, L. Peters, Jr. and R. C. Chou), 15 July 1988 through 14 July 1989.

\$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-Beta 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)

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)

\$3,451.00 - Astra Alab AB, Sodertalje, Sweden, Novel Drug Delivery Systems, College of Pharmacy (S. G. Frank), 1 January 1988 through 31 December 1988. (Project 762165 - Continuation)

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)

\$142,818.00 - National Training Fund for the Sheet Metal and Air-Conditioning Industry, Washington, D.C., National Training Fund University Center for the Sheet Metal and Air-Conditioning Industry, 1989-91, Center on Education and Training for Employment (R. D. Ryan), 1 January 1989 through 31 December 1989. (Project 767175 - 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)

\$2,500.00 - Egyptian Government, Washington, D.C., Cultural and Educational Bureau -- Peace Fellowship Program, Department of Biochemistry (D. H. Dean), 30 October 1988 through 29 March 1989. (Project 767216 - New)

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.

February 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 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.

February 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 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.

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**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.)

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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.

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Thereupon the Board adjourned.

Attest:

Madison H. Scott
Secretary

Leonard J. Immke
Chairman

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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)



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**THE OHIO STATE UNIVERSITY
 ENDOWMENT SUMMARY
 January 20, 1989**

Endowment Composition

	<u>06-30-88</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>01-20-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
Equities:				
Chicago Corp.	\$ 38,004,379	18.55%	\$ 38,139,473	17.09%
Nicholas-Applegate	10,454,591	5.10	10,543,708	4.72
Siebel	34,428,707	16.81	35,540,227	15.93
Mutual Fund	17,462,592	8.53	18,201,686	8.16
OSU Managed	<u>1,282,386</u>	<u>16.25</u>	<u>49,233,803</u>	<u>22.07</u>
Total Equities	\$133,632,655	65.24%	\$151,658,897	67.97%
Fixed Income:				
Cambridge	\$ 921,925	0.45%	\$ 921,813	0.41%
Centerre Trust	21,547,467	10.52	21,870,479	9.80
Duff & Phelps	9,983,561	4.87	9,817,127	4.40
STW Fixed Income	22,300,069	10.89	22,545,505	10.11
OSU - GNMA	9,954,372	4.86	9,811,444	4.40
OSU Managed	<u>6,502,840</u>	<u>3.17</u>	<u>6,499,131</u>	<u>2.91</u>
Total Fixed Income	\$ 71,210,234	34.76%	\$ 71,465,499	32.03%
Total Equities & Fixed Income	\$204,842,889	<u>100.00%</u>	\$223,124,396	<u>100.00%</u>
Real Estate	\$ 43,089,186		\$ 36,574,145 (1)	
Total Portfolio	<u>\$247,932,075</u>		<u>\$259,698,541</u>	

1) Real Estate reported at most recent appraised value.

Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value January '88 to January '89</u>	<u>Total Estimated Return</u>
Equity:			
Common Stock (Chicago Corp.)	3.53% (1)	8.64%	12.17%
Common Stock (Nicholas-Applegate)	1.93 (2)	14.91	16.84
Common Stock (Siebel)	3.79 (3)	10.74	14.53
Mutual Fund	3.20	18.64	21.84
Common Stock (OSU Managed)	4.16 (4)	17.45	21.61
Standard & Poor's Index	3.94	13.72	17.66
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 (Duff & 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.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>01-20-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-88)	\$247,932,075	Equities	\$106,627,811	41.06%
Principal Additions	7,704,621	Fixed Income	65,016,207	25.03
Principal Withdrawals	(99,910)	Real Estate	36,458,000	14.04
Change in Market Value	<u>4,161,755</u>	Cash	<u>51,596,523</u>	<u>19.87</u>
Current Market Value	<u>\$259,698,541</u>	Total Portfolio	<u>\$259,698,541</u>	<u>100.00%</u>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
No Activity			

Real Estate

<u>Sale</u>	<u>Total Investment</u>
No Activity	

**The Ohio State University
Common & Preferred Stock**

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
6,300	Wetterau, Inc.	Chicago	23.6944	\$ 149,275.00	\$ 6,552.00
7,500	Limited, Inc.	Nicholas- Applegate	27.1988	204,441.20	1,800.00
12,000	Neiman Marcus Group, Inc.	"	16.7512	201,734.50	2,400.00
282	Banc One Corp.*	OSU	23.1543	6,529.50	259.44
20	Figgie International, Inc. Cl. B*	"	92.0000	1,840.00	17.60
50	General Electric Co.*	"	45.3750	2,268.75	82.00
10	General Motors Corp., Cl. H*	"	25.6250	256.25	4.40
250	Huntington Bancshares*	"	17.7500	4,437.50	210.00
783	Putnam High Income Government Trust Fund*	"	10.0900	7,900.47	379.75
600	Standard Products Co.*	"	29.2500	17,550.00	480.00
200	Wendy's International, Inc.*	"	5.6250	1,125.00	48.00
598	Worthington Industries, Inc.*	"	22.0201	13,168.00	263.12
2,500	Apple Computer, Inc.	Siebel	40.8750	102,187.50	600.00
10,000	Becton Dickinson & Co.	"	53.8910	539,610.00	7,400.00
18,000	Holiday Corp.	"	27.2799	492,198.00	0.00
2,500	Motorola, Inc.	"	41.2500	<u>103,300.00</u>	<u>1,600.00</u>
				<u>\$1,847,821.67</u>	<u>\$22,096.31</u>

* Gift.

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
4,000	First Fidelity Bancorp.	Chicago	27.3750	\$ 109,256.35	\$ (43,961.82)
13,500	Oracle Systems Corp.	Nicholas- Applegate	17.9010	241,663.50	(29,261.50)
1,900	TW Services, Inc.	"	26.7500	50,709.30	19,519.52
171	Chevron Corp.*	OSU	47.3750	7,952.85	1.35
20	Figgie International, Inc. CL. B*	"	92.5000	1,841.80	1.80
50	General Electric Co.*	"	45.8750	2,274.67	5.92
15	Teledyne, Inc.*	"	331.2500	4,962.43	83.68
9,400	Burlington Northern, Inc.	Siebel	22.7110	212,818.28	28,993.53
28,700	Healthvest, Inc.	"	17.0100	486,161.72	(87,838.28)
12,000	Vista Chemical Co.	"	52.2550	<u>626,319.09</u>	<u>5,319.09</u>
				<u>\$1,743,959.99</u>	<u>\$(107,136.71)</u>

* Gift.

**The Ohio State University
Bonds/Notes**

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
900,000	U.S. Treasury Bond 9.125% 05/15/18	Cambridge	8.9874	8.9742	101.5312	\$ 913,781.25
575,000	General Motors Corp. 8.125% 04/15/16	Centerre	9.8565	10.0129	82.4330	473,989.75
3,406,000	U.S. Treasury Bond (Tigrs) 0.000% 11/15/10	"	0.0000	9.4860	13.2560	451,499.36
4,065,000	U.S. Treasury Bond (Tigrs) 0.000% 08/15/13	"	0.0000	9.2800	16.9640	689,586.60
7,170,000	U.S. Treasury Bond 10.375% 11/15/12	STW	9.3591	9.2388	110.8545	7,948,270.82
2,200,000	U.S. Treasury Note 9.250% 08/15/98	"	9.2178	9.1913	100.3494	<u>2,207,687.50</u>
						<u>\$12,684,815.28</u>

The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
900,000	U.S. Treasury Bond 8.875% 08/15/17	Cambridge	97.9062	\$ 881,156.25	\$ 1,125.00
500,000	British Petroleum of North America Corp. 10.000% 07/01/18	Centerre	98.9375	494,687.50	(1,937.50)
11,830,000	U.S. Treasury Bond (Tigrs) 0.000% 08/15/14	"	9.5900	1,134,497.00	(27,209.00)
12,320,000	U.S. Treasury Bond 7.250% 05/15/16	STW	82.5164	<u>10,166,022.66</u>	<u>562,134.11</u>
				<u>\$12,676,363.41</u>	<u>\$534,112.61</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
Building and 3.295 acres at 930 Kinnear Road	10.46X	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 Kenny Road	10.47	1961	659,930	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	1968	170,000	570,000	06/87
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/87
Hangar at Don Scott Field (Loan)	.00	1973	35,332 (1)	35,332	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	80,813 (1)	80,813	N/A
House and .23 acres of land, 760 Beautyview Court	.00	1986	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	1965	24,000	1,020,000	06/87
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/87
Undivided one-half interest in building and .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 Eiterman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,447,086</u>	<u>\$36,574,145</u>	

(1) Amount represents balance on loan made to Department of Aviation.



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THE OHIO STATE UNIVERSITY
UNIVERSITY CASH INVESTMENT SUMMARY
As of December 31, 1988

	<u>Month</u>	<u>Past 12 Months</u>
Cash Income	\$ 1,585,627	\$ 14,546,992
Average Maturity	2.8 years	2.8 years
Asset Balance	\$177,399,000	\$193,288,613
Yield to Maturity	8.050%	7.543%
Donoghue's U.S. Gov't & Agencies 30 day yield	7.780%	6.371%

<u>Portfolio Composition</u>	<u>12-31-88</u>	<u>Percent of Portfolio</u>
U.S. Treasury Notes & Bills	\$ 37,500,000	21.14%
U.S. Government Agencies	\$139,899,000	78.86%
Total	<u>\$177,399,000</u>	<u>100.00%</u>



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MEMORANDUM

Subject: Proxy Voting
Date: January 31, 1989
From: Alvin C. Rodack, Associate Treasurer *Alvin C. Rodack*
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)



Office of the Treasurer

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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:

Common stock	60%
Fixed-income	25
Real estate	<u>15</u>
	100%

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:

Equities	50-75%
Fixed-Income	25-50%
Real Estate	5-20%
Cash	0-20%

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:

Large-capitalization stock	35%
Small-capitalization stock	15
Foreign stock	<u>10</u>
Total stocks	60%
Bonds	25%
Real estate	<u>15%</u>
Total	100%

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

	<u>*Campaign Expectancies</u>	<u>Current Year Campaign Receipts (Jul 88-Dec 88)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1988</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$63,816,581	\$9,027,638	\$38,283,424	\$111,127,643	\$122,500,000	91
Friends	32,762,115	4,131,435	28,643,850	65,537,400	70,000,000	94
**Corporations	14,380,162	10,585,214	101,125,935	126,091,311	122,500,000	103
Foundations	<u>3,401,634</u>	<u>3,248,429</u>	<u>19,935,229</u>	<u>26,585,292</u>	<u>35,000,000</u>	76
Totals	\$114,360,492	\$26,992,716	\$187,988,438	\$329,341,646	\$350,000,000	94

*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

	Donors			Dollars		
	July	through	%	July	through	%
	<u>1987-88</u>	<u>December</u>	<u>Change</u>	<u>1987-88</u>	<u>December</u>	<u>Change</u>
		<u>1988-89</u>			<u>1988-89</u>	
Alumni	30,878	28,333	(8)	\$5,172,328	\$9,027,638	75
Non Alumni	13,887	13,041	(6)	4,316,609	4,131,435	(4)
Corporations	1,200	1,294	8	4,677,231	7,649,275	64
Corporate Foundations	202	195	(3)	1,120,484	1,349,723	20
Private Foundations	106	115	8	6,978,423	3,248,429	(53)
Other	<u>733</u>	<u>801</u>	9	<u>1,485,997</u>	<u>1,586,216</u>	7
TOTAL	47,006	43,779	(7)	\$23,751,072	\$26,992,716	14

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)

REPORT TO THE BOARD OF TRUSTEES
FROM THE SUBCOMMITTEE ON ACADEMIC AFFAIRS

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

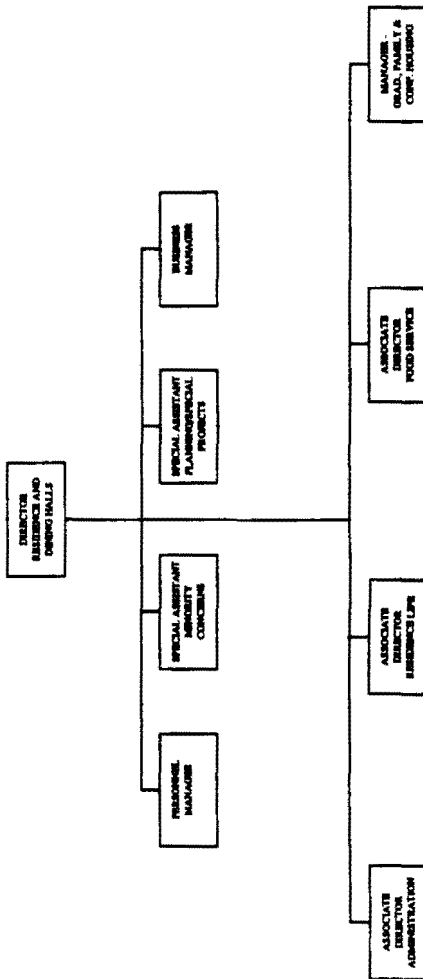
The mission of Residence and Dining Halls is to provide living and learning environments for students, faculty, staff and guests which contribute to and support the University mission of excellence in teaching, research, and service.

THE OHIO STATE UNIVERSITY
OFFICE OF RESIDENCE AND DINING HALLS
ORGANIZATIONAL OVERVIEW

William H. Hall
Director

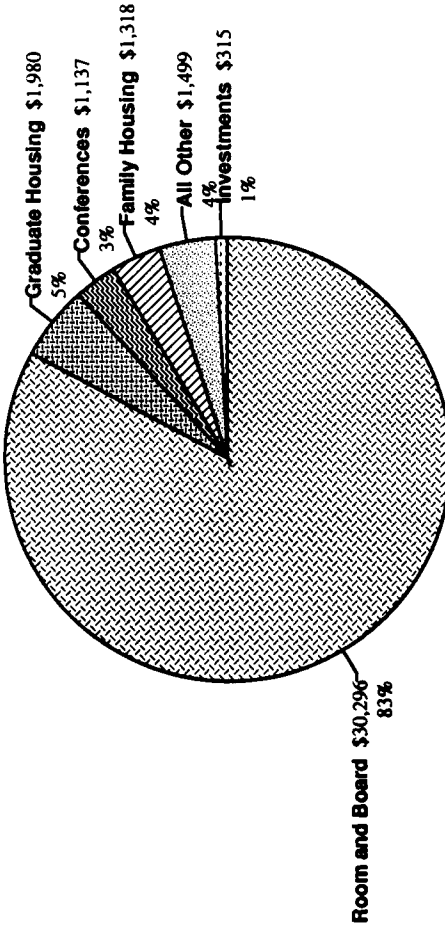
<u>Administrative Offices:</u>	600 Lincoln Tower, 1800 Cannon Drive
<u>Annual Budget:</u>	\$36,545,000
<u>Staffing:</u>	53 Administrative and Professional 37 Graduate 525 Civil Service 1,250 Student
<u>Students Housed:</u>	9,843 Undergraduates 783 Graduates 393 Student Families
<u>Conference/Workshop Bednights:</u>	81,500 (Average Annual)
<u>Facilities Managed:</u>	24 Undergraduate Halls 3 Graduate Halls 1 Cooperative House 71 Graduate Apartments 400 Family Apartments (33 Buildings) 6 Dining Commons 2 Regional Housing Operations (10 Buildings)
<u>Meals Served:</u>	3,380,000 (Average Annual)

RESIDENCE AND DINING HALLS ORGANIZATIONAL CHART



**Residence and Dining Halls
Budgeted Income Sources**

**1988-89
\$(000)**

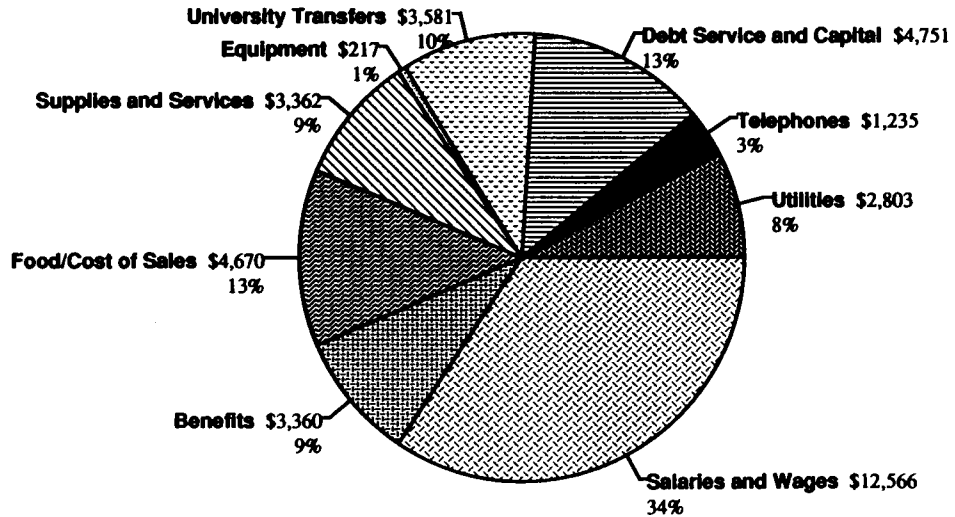


Total Revenue Budget \$36,545,000

Residence and Dining Halls Proposed Expenditures Budget

1988-89

\$(000)



Total Expenditures Budget \$36,545,000

**RESIDENCE AND DINING HALLS
CONSOLIDATED OPERATING SUMMARY FOR
DRF AND HC3 FUNDS**

	<u>FY 83-84</u>	<u>FY 84-85</u>	<u>FY 85-86</u>	<u>FY 86-87</u>	<u>FY 87-88</u>	<u>12/31/88 Projection FY 88-89</u>
<u>Income</u>						
Room and Board	\$30,283,911	\$30,261,149	\$31,225,750	\$31,081,733	\$33,288,950	\$35,849,000
Interest	1,038,356	935,689	694,820	421,996	485,952	700,000
Building Rentals and Miscellaneous	<u>1,077,328</u>	<u>623,713</u>	<u>651,451</u>	<u>1,168,888</u>	<u>681,176</u>	<u>687,000</u>
Total Income	<u>\$32,399,595</u>	<u>\$31,820,551</u>	<u>\$32,572,021</u>	<u>\$32,672,617</u>	<u>\$34,456,078</u>	<u>\$37,236,000</u>
<u>Operating Expenditures</u>						
Labor and Benefits	\$11,738,526	\$12,100,471	\$12,530,851	\$13,681,031	\$14,346,453	\$15,475,000
Food	5,073,475	4,922,833	4,656,402	4,508,421	4,535,697	4,750,000
Utilities	2,826,933	2,868,840	2,617,204	2,377,500	2,466,708	2,878,000
Telephone	744,017	866,585	991,161	998,517	1,048,506	1,340,000
Maintenance and Miscellaneous	3,530,195	2,383,212	3,772,934	5,584,209	4,073,468	4,135,000
Equipment	<u>695,542</u>	<u>336,776</u>	<u>1,322,265</u>	<u>845,931</u>	<u>202,698</u>	<u>217,000</u>
Subtotal	<u>\$24,608,688</u>	<u>\$23,478,717</u>	<u>\$25,890,817</u>	<u>\$27,995,609</u>	<u>\$26,673,530</u>	<u>\$28,795,000</u>
<u>Transfers</u>						
University	\$ 1,749,414	\$ 1,749,734	\$ 1,824,022	\$ 1,803,518	\$ 2,530,050	\$ 3,609,000
Debt Service	2,414,050	2,612,403	2,215,696	2,165,163	2,355,807	2,703,000
Capital	<u>2,052,962</u>	<u>4,632,731</u>	<u>9,584,717</u>	<u>478,178</u>	<u>900,087</u>	<u>2,034,000</u>
Subtotal	<u>\$ 6,216,426</u>	<u>\$ 8,994,868</u>	<u>\$13,624,435</u>	<u>\$ 4,446,859</u>	<u>\$ 5,785,944</u>	<u>\$ 8,346,000</u>
Total Expenditures	<u>\$30,825,114</u>	<u>\$32,473,585</u>	<u>\$39,515,251</u>	<u>\$32,442,468</u>	<u>\$32,459,474</u>	<u>\$37,141,000</u>
Net Income	<u>\$ 1,574,481</u>	<u>\$ (653,034)</u>	<u>\$(6,943,230)</u>	<u>\$ 230,149</u>	<u>\$ 1,996,604</u>	<u>\$ 95,000</u>
Year End Fund Balances	<u>\$ 7,175,559</u>	<u>\$ 6,522,525</u>	<u>\$ (420,705)</u>	<u>\$ (190,556)</u>	<u>\$ 1,806,048</u>	<u>\$ 1,901,048</u>

**5 YEAR COMPARISON
BIG TEN HOUSING SURVEY
FOR PREDOMINANTLY DOUBLE ROOMS
ROOM AND BOARD RATES
1984 THROUGH 1989**

School	Room & Board 1984-1985			Room & Board 1985-1986			Room & Board 1986-1987			Room & Board 1987-1988			Room & Board 1988-89		Five Year Average Increase
	\$A	%		\$A	%		\$A	%		\$A	%		\$A	%	
University of Illinois	\$2,670 [4]	\$204	7.6%	\$2,874 [5]	\$136	4.7%	\$3,010 [5]	\$150	5.0%	\$3,160 [5]	\$152	4.8%	\$3,312 [5]		5.5%
Indiana University	2,164 [5]	147	6.8	2,311 [5]	115	5.0	2,426 [5]	180	7.3	2,604 [5]	160	6.1	2,764 [5]		6.3
University of Iowa	2,051 [10]	76	3.7	2,127 [10]	117	5.5	2,244 [10]	122	5.4	2,366 [10]	123	5.2	2,489 [10]		5.0
University of Michigan	2,780 [2]	131	4.7	2,911 [2]	142	4.9	3,053 [2]	193	6.3	3,246 [2]	179	5.5	3,425 [2]		5.4
Michigan State University	2,412 [6]	69	2.9	2,481 [6]	57	2.3	2,538 [6]	96	3.8	2,634 [6]	99	3.8	2,733 [6]		3.2
University of Minnesota	2,427 [7]	69	2.8	2,496 [7]	75	3.0	2,571 [7]	129	5.0	2,700 [7]	150	5.5	2,850 [7]		4.1
Northwestern University	3,585 [11]	258	7.2	3,843 [11]	125	3.3	3,968 [11]	129	3.3	4,097 [11]	253	6.2	4,350 [11]		5.0
Ohio State University	2,694 [3]	105	3.9	2,799 [4]	84	3.0	2,883 [4]	144	5.0	3,027 [4]	270	8.9	3,297 [4]		5.2
Purdue University	2,500 [5]	130	5.2	2,630 [5]	110	4.1	2,740 [5]	90	3.3	2,830 [6]	120	4.2	2,950 [6]		4.2
University of Wisconsin	2,440 [6]	130	5.3	2,570 [6]	154	6.0	2,724 [6]	119	4.4	2,843 [5]	147	5.2	2,990 [5]		5.2
"Average"	\$2,572	\$132	5.0%	\$2,704	\$112	4.2%	\$2,816	\$135	4.8%	\$2,950	\$165	5.6%	\$3,115		4.9%

**5 YEAR COMPARISON
OHIO UNIVERSITIES
ROOM AND BOARD RATES
1964 THROUGH 1969**

School	Room & Board 1964-1965		Room & Board 1965-1966		Room & Board 1966-1967		Room & Board 1967-1968		Room & Board 1968-69		Five Year Average Increase
	\$	%	\$	%	\$	%	\$	%	\$	%	
Bowling Green State University	\$1,888 [1]	52	\$1,940 [17]	78	\$2,018 [12]	86	\$2,104 [12]	106	\$2,210 [11]	111	4.0%
University of Akron	2,406 [6]	144	2,550 [6]	102	2,652 [7]	46	2,700 [6]	108	2,808 [6]	9	3.9
Central State University	2,868 [2]	--	2,868 [2]	87	2,955 [2]	297	3,252 [2]	291	3,543 [1]	1	5.9
University of Cincinnati	2,955 [1]	111	3,066 [1]	123	3,189 [1]	66	3,255 [1]	261	3,516 [2]	2	4.5
Kent State University	2,288 [8]	108	2,396 [8]	96	2,492 [8]	140	2,632 [8]	106	2,738 [8]	9	4.6
Miami University	2,225 [9]	100	2,325 [18]	101	2,426 [11]	110	2,536 [11]	164	2,700 [18]	18	5.0
Ohio University	2,685 [5]	81	2,766 [5]	111	2,877 [6]	129	3,006 [6]	153	3,159 [6]	6	4.2
Ohio State University	2,694 [3]	105	2,799 [3]	84	2,883 [5]	144	3,027 [5]	270	3,297 [5]	5	5.2
University of Toledo	2,358 [7]	93	2,451 [7]	752	2,973 [5]	156	3,129 [5]	147	3,276 [5]	5	4.2
Wright State University	2,622 [5]	105	2,727 [5]	270	2,997 [3]	201	3,198 [1]	168	3,366 [1]	1	6.5
Youngstown State University	2,190 [16]	150	2,340 [9]	120	2,460 [16]	90	2,550 [16]	150	2,700 [16]	16	5.4
Cleveland State University	810 [12]	--	810 [12]	1,690	--	2,490 [9]	405	2,895 [7]	3,066 [7]	7	11.1

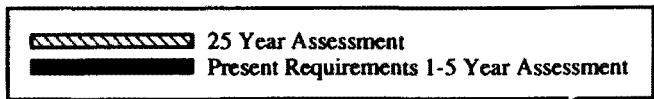
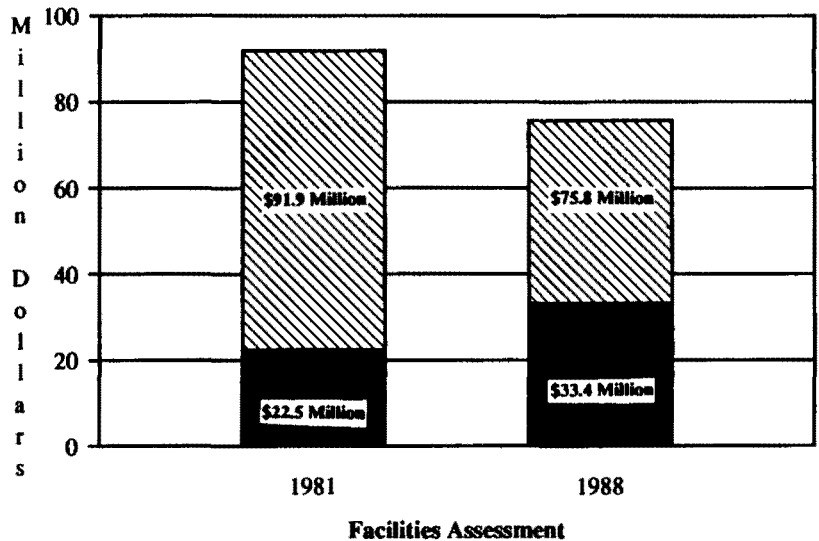
**RESIDENCE AND DINING HALLS
NET YIELD - AUTUMN QUARTER OPENING
TOTAL CONTRACTS OFFERED/RETURNED**

	<u>82-83</u>	<u>83-84</u>	<u>84-85</u>	<u>85-86</u>	<u>86-87</u>	<u>87-88</u>	<u>88-89</u>	<i>line</i>
<u>Renewals</u>								
Total offered	9558	9704	9408	9124	9012	8750	8684	1
Net for assignment	3993	4095	3771	3793	3728	3474	3119	2
Net yield %	41.8%	42.2%	39.8%	41.6%	41.4%	39.7%	35.9%	3
<u>NFQF</u>								
Paid Acceptance Fees	8512	8415	8100	8327	8536	7665	8762	4
Net for assignment	5396	5232	5056	5254	5484	5079	5791	5
Net yield %	63.4%	62.2%	62.4%	63.1%	64.2%	66.3%	66.1%	6
<u>Transfers & Others</u>								
Total offered	1872	1852	1701	1539	1461	1792	1609	7
Net for assignment	972	990	1020	720	634	932	912	8
Net yield %	51.9%	53.4%	60.0%	46.8%	43.4%	52.0%	56.7%	9

**RESIDENCE AND DINING HALLS
SEVEN YEAR MEAL PLAN, MEALS ONLY, AND ROOM ONLY TRENDS**

	<u>FY</u> <u>1983</u>	<u>FY</u> <u>1984</u>	<u>FY</u> <u>1985</u>	<u>FY</u> <u>1986</u>	<u>FY</u> <u>1987</u>	<u>FY</u> <u>1988</u>	<u>FY</u> <u>1989</u>
<u>Autumn Quarter</u>							
MEALS CONTRACTS	9991	10217	9004	9638	9436	8963	9905
Meals Only - Off Campus	306	306	246	249	229	284	429
Room Only	591	580	620	626	636	580	499
<u>Winter Quarter</u>							
MEALS CONTRACTS	9962	10133	9557	9529	8963	8865	9859
Meals Only - Off Campus	277	306	228	197	197	263	371
Room Only	733	483	560	586	583	554	491
<u>Spring Quarter</u>							
MEALS CONTRACTS	9666	9731	9097	9074	8637	8793	--
Meals Only - Off Campus	265	227	171	162	162	239	--
Room Only	573	601	546	569	596	571	--

**RESIDENCE AND DINING HALLS
FACILITIES REPAIR
COST PROJECTIONS**



**RESIDENCE AND DINING HALLS
MAJOR CAPITAL PROJECTS
FISCAL YEARS 1984-89**

Stadium Renovation	\$ 8,232,531
Buckeye Village	7,835,360
Jones Tower	1,991,258
Morrill and Lincoln Towers	1,046,159
North Commons	479,139
Raney Commons	469,407
ATI Residence Hall Purchase and Improvements	1,400,000
Stone Laboratory	200,000
Misc. Projects - roofs, HVAC, windows, elevators, modifications for physically challenged	<u>9,169,031</u>
	<u>\$30,822,885</u>

**RESIDENCE AND DINING HALLS STAFFING
8 YEAR COMPARISON OF REGULAR AND STUDENT STAFF FTE**

	<u>Total</u>	<u>Staff</u>	<u>Student</u>
1981	900.0	626.5	273.5
1982	870.6	599.9	270.7
1983	872.3	592.5	279.8
1984	846.1	569.8	276.3
1985	811.8	564.7	247.1
1986	844.4	564.5	279.9
1987	877.6	575.9	301.7
1988	822.0	549.2	272.8

**RESIDENCE AND DINING HALLS
6 YEAR COMPARISON OF AFFIRMATIVE ACTION DATA**

Executive, Administrative, Managerial (01)

	<u>Total</u>	<u>Female</u>	<u>Minority</u>
1983	9	44.5% (4)	0.0% (0)
1984	12	50.0% (6)	8.3% (1)
1985	16	50.0% (8)	25.0% (4)
1986	19	57.6% (10)	31.6% (6)
1987	19	52.6% (10)	26.3% (5)
1988	21	52.4% (11)	23.9% (5)

Technical and Paraprofessional (05)

	<u>Total</u>	<u>Female</u>	<u>Minority</u>
1983	3	33.3% (1)	0.0% (0)
1984	2	50.0% (1)	0.0% (0)
1985	2	50.0% (1)	0.0% (0)
1986	0	0.0% (0)	0.0% (0)
1987	0	0.0% (0)	0.0% (0)
1988	0	0.0% (0)	0.0% (0)

Professional Non-Faculty (03)

	<u>Total</u>	<u>Female</u>	<u>Minority</u>
1983	85	49.4% (42)	14.1% (12)
1984	79	58.2% (46)	16.5% (13)
1985	81	55.6% (45)	13.6% (11)
1986	83	56.6% (47)	19.3% (16)
1987	86	58.1% (50)	15.1% (13)
1988	80	53.8% (43)	11.3% (9)

Skilled Crafts (06)

	<u>Total</u>	<u>Female</u>	<u>Minority</u>
1983	14	0.0% (0)	14.2% (2)
1984	13	0.0% (0)	15.3% (2)
1985	12	0.0% (0)	16.6% (2)
1986	11	0.0% (0)	27.2% (3)
1987	10	0.0% (0)	20.0% (2)
1988	12	0.0% (0)	16.6% (2)

Clerical and Secretarial (04)

	<u>Total</u>	<u>Female</u>	<u>Minority</u>
1983	51	90.2% (46)	49.0% (25)
1984	50	90.0% (45)	50.0% (25)
1985	50	86.0% (43)	42.0% (21)
1986	52	88.5% (46)	40.4% (21)
1987	49	83.7% (41)	38.8% (19)
1988	44	84.1% (37)	43.2% (19)

Service/Maintenance (07)

	<u>Total</u>	<u>Female</u>	<u>Minority</u>
1983	455	55.3% (252)	69.4% (316)
1984	443	53.7% (238)	69.3% (307)
1985	427	52.4% (224)	69.5% (297)
1986	449	48.1% (216)	71.9% (323)
1987	441	48.0% (212)	71.4% (315)
1988	438	48.6% (213)	70.7% (310)

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)

The Ohio State University
College of Agriculture
Development Update
January 1989

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 Biegler, 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 agri-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)**

THE OHIO STATE UNIVERSITY PCB ELIMINATION AND ELECTRICAL SYSTEM UPGRADE

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:

- o 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.
- o 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
- o 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 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:

- o A cafeteria
- o A canteen
- o A vending machine area
- o A storage area for foodstuffs
- o 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:

- o Retrofit each transformer with non-toxic cooling fluids.
- o 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 refilling 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 refill option. The first is that it is quite difficult to keep a refilled 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 refill 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 refill 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 refill 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. Refill costs can run as high as 60% to 70% of the replacement costs.

The third major drawback to the refill 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 refilling 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 retrofit 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 \$14,869,526 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 26% 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

	A & P Salaries	Classi- fied	Specials	Wages	Benefits	Operations	Equip- ment	Capital/ Contingy	Overhead Assessment	Approved 1988-89
316500 Games & Sports	\$ 258,300.	\$ 64,000.	\$276,600.	\$	\$ 81,500.	\$	\$	\$	\$	\$ 680,400.
316501 Other Sports-Men	586,700.				119,800.					706,500.
316502 Football	567,200.	57,300.		81,900.	121,800.	2,172,500.	10,000.			3,010,700.
316503 Basketball-Men	168,700.	33,100.		30,500.	38,300.	558,200.	1,400.			830,200.
316504 Baseball-Men						155,230.	1,000.			156,230.
316505 Fencing-Men				500.		22,230.				22,730.
316506 Golf-Men						67,950.				67,950.
316507 Gymnastics-Men				1,500.		114,780.	1,050.			117,330.
316508 Ice Hockey-Men				6,300.		257,800.				264,100.
316509 Lacrosse-Men						27,200.				27,200.
316510 Pistol-Men						14,225.				14,225.
316511 Rifle-Men						12,190.				12,190.
316512 Soccer-Men				2,000.		29,380.				31,380.
316513 Swimming/Diving-Men				5,100.		138,559.				143,659.
316514 Tennis-Men						80,915.	1,200.			82,115.
316515 Track-Men				1,400.		187,365.				188,765.
316516 Volleyball-Men				2,400.		37,210.				39,610.
316517 Wrestling-Men				1,800.		155,210.				157,010.
316520 Athletic Awards						58,500.				58,500.
316521 Medical Services						342,500.				342,500.
316526 Other Sports-Women	479,100.	23,100.			95,200.					597,400.
316527 Basketball-Women				7,200.		282,580.				289,780.
316528 Softball-Women				500.		148,085.				148,585.
316529 Fencing-Women				675.		37,260.				37,935.
316530 Golf-Women						70,821.				70,821.
316531 Gymnastics-Women				900.		119,345.				120,245.
316532 Field Hockey-Women				100.		136,360.				136,460.
316533 Swimming/Diving-Women				5,400.		154,990.				160,390.
316534 Synch/Swimming-Women				5,000.		52,295.				57,295.
316535 Tennis-Women						91,406.	200.			91,606.
316536 Track-Women				1,600.		176,340.				177,940.
316537 Volleyball-Women				2,950.		172,405.				175,355.
316543 Cheerleaders				300.		17,100.				17,400.
316544 Equipment Care				81,300.	8,200.	81,000.	4,000.			174,500.
316545 Training				97,000.		123,100.	2,700.			222,800.
316546 Tutoring				42,300.	600.	5,700.				48,600.
316547 Parking				165,000.	2,000.	37,700.				204,700.
316548 Programs				3,000.		73,505.				76,505.
316549 Grant-in-Aid						(2,305,800.)				(2,305,800.)
	\$2,060,000.	\$177,500.	\$276,600.	\$546,625.	\$467,400.	\$3,906,136.	\$21,550.			\$7,455,811.

OSU ATHLETIC DEPARTMENT - Approved Budget - 1988-89 - EXPENDITURES - (Concluded)

	A & P Salaries	Classi- fied	Special	Wages	Benefits	Operating	Equipment	Capital/ Contingency	Overhead Assessment	Approved 1988-89
316550 Administration-Gen'l	\$ 771,750.	\$588,000.	\$	\$ 84,000.	\$317,310.	\$ 712,950.	\$100,000.	\$2,504,000.	\$ 981,520.	\$ 6,059,530.
316551 Publicity				33,600.	1,600.	239,200.	1,000.			275,400.
316552 Marketing & Promotions				3,000.		141,300.				144,300.
316553 Athletic Ticket Office				40,150.	4,000.	152,200.	3,000.			199,350.
316554 Band				12,200.		154,200.	9,300.			175,700.
316556 Clinic						60,000.				60,000.
316557 Buckeye Sports Camp			106,000.	22,600.	15,000.	281,400.				425,000.
316558 Sport Championships				3,200.		118,400.				121,600.
Sub total	\$ 771,750.	\$588,000.	\$106,000.	\$ 198,750.	\$337,910.	\$1,859,650.	\$113,300.	\$2,504,000.	\$ 981,520.	\$ 7,460,880.
316560 Athletic Plant Maint.	\$ 45,700.	\$	\$	\$ 501,850.	\$ 77,000.	\$ 104,100.	\$ 63,000.	\$	\$ 705,120.	\$ 1,496,770.
316561 Stadium Maintenance				15,000.	1,000.	198,050.	5,000.			219,050.
316562 Arena Maintenance						76,500.	5,000.			81,500.
316563 Field House Maint.						24,700.	5,000.			29,700.
316564 North Facility Maint.						223,075.	124,595.			347,670.
316565 Tennis Court Maint.						11,150.				11,150.
Sub total	\$ 45,700.			\$ 516,850.	\$ 78,000.	\$ 637,575.	\$202,595.		\$ 705,120.	\$ 2,185,840.
316570 Golf Course	\$ 32,000.	\$ 45,000.	\$	\$	\$ 18,000.	\$	\$	\$	\$	\$ 95,000.
316571 Golf Course Operating				205,000.	25,300.	257,700.	45,000.			533,000.
316572 Golf Course Pro Shop		44,000.		77,500.	13,300.	310,000.	5,000.			449,800.
316573 Golf Course Restaurant	30,000.			176,400.	35,000.	224,000.	3,000.			468,400.
Sub total	\$ 62,000.	\$ 89,000.	\$	\$ 458,900.	\$ 91,600.	\$ 791,700.	\$ 53,000.	\$	\$	\$ 1,546,200.
316575 Ice Rink	\$ 23,000.	\$ 30,000.	\$	\$ 87,000.	\$ 14,600.	\$ 176,200.	\$ 5,600.	\$	\$	\$ 336,400.
316591 Jesse Owens Classic	\$	\$	\$	\$	\$	\$ 58,000.	\$ 2,000.	\$	\$	\$ 60,000.
TOTALS	\$2,962,450.	\$884,500.	\$382,600.	\$1,808,125.	\$989,510.	\$7,429,261.	\$398,045.	\$2,504,000.	\$1,686,640.	\$19,045,131.

*\$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

	<u>INCOME</u>	
<u>OTHER SPORTS - MEN (316501)</u>	<u>Approved 1987-88</u>	<u>Approved 1988-89</u>
052 Tickets - Indiv.	\$ 12,000.00	\$ 12,000.00
061 Concessions	4,000.00	4,000.00
062 Guarantees	5,000.00	5,000.00
067 Miscellaneous	<u>15,000.00</u>	<u>15,000.00</u>
	\$ 36,000.00	\$ 36,000.00
 <u>FOOTBALL (316502)</u>		
050 Season Tickets - S&F	\$ 1,934,400.00	\$ 1,934,400.00
051 Season Tickets - G.P.	3,870,605.00	3,870,605.00
052 Tickets - Indiv.	1,229,609.00	1,229,609.00
054 Service Charge	10,000.00	15,000.00
055 Postage & Handling	45,000.00	45,000.00
056 Television	750,000.00	800,000.00
057 Broadcasting	1,134,000.00	602,225.00
061 Concessions	370,000.00	425,000.00
062 Guarantees	1,475,000.00	1,200,000.00
063 Guarantee-Visitor	(2,300,000.00)	(2,300,000.00)
067 Miscellaneous	<u>4,000.00</u>	<u>4,000.00</u>
	\$ 8,522,614.00	\$ 7,825,839.00
 <u>BASKETBALL (316503)</u>		
050 Season Tickets - S&F	\$ 253,810.00	\$ 264,000.00
051 Season Tickets - G.P.	670,734.00	715,400.00
052 Tickets - Indiv.	358,000.00	358,000.00
054 Service Charge	4,000.00	4,000.00
055 Postage & Handling	6,500.00	6,500.00
056 Television	700,000.00	750,000.00
057 Broadcasting	378,000.00	200,750.00
061 Concessions	70,000.00	90,000.00
062 Guarantees	10,000.00	20,000.00
064 Tournament Income Shares	150,000.00	100,000.00
067 Miscellaneous	<u>7,000.00</u>	<u>10,000.00</u>
	\$ 2,608,044.00	\$ 2,518,650.00

OSU ATHLETIC DEPARTMENT - Approved Budget 1988-1989 - INCOME - Page 2

	<u>Approved</u> <u>1987-88</u>		<u>Approved</u> <u>1988-89</u>	
<u>ICE HOCKEY (316508)</u>				
050 Season Tickets - S&F	\$ 6,000.00		\$ 6,000.00	
051 Season Tickets - G.P.	2,500.00		2,500.00	
052 Tickets - Indiv.	29,500.00		29,500.00	
062 Guarantees	10,000.00		10,000.00	
067 Miscellaneous	<u>2,000.00</u>		<u>2,000.00</u>	
	\$ 50,000.00		\$ 50,000.00	
 <u>OTHER SPORTS - WOMEN (316526)</u>				
050 Season Tickets - S&F	\$ 3,000.00		\$ 5,000.00	
051 Season Tickets - G.P.	9,000.00		20,000.00	
052 Tickets - Indiv.	58,000.00		58,000.00	
061 Concessions	15,000.00		20,000.00	
067 Miscellaneous	<u>3,000.00</u>		<u>3,000.00</u>	
	\$ 88,000.00		\$ 106,000.00	
 <u>PARKING (316547)</u>				
051 Season Tickets G.P.	\$ 110,000.00		\$ 110,000.00	
052 Tickets - Indiv.	160,000.00		180,000.00	
067 Settlement-Traf/Park	<u>(70,000.00)</u>		<u>(70,000.00)</u>	
	\$ 200,000.00		\$ 220,000.00	
 <u>PROGRAMS (316548)</u>				
058 Program Sales	<u>\$ 135,000.00</u>		<u>\$ 135,000.00</u>	
	\$ 135,000.00		\$ 135,000.00	

	<u>Approved 1987-88</u>	<u>Approved 1988-89</u>
<u>ADMINISTRATION GENERAL (316550)</u>		
032 Interest Income	\$ 200,000.00	\$ 400,000.00
061 Concessions	96,000.00	100,000.00
065 Facility Rental	50,000.00	140,000.00
067 Miscellaneous	5,000.00	100,000.00
068 Scoreboard Advertising	<u>800,000.00</u>	<u>1,135,000.00</u>
	\$ 1,151,000.00	\$ 1,875,000.00
<u>MARKETING & PROMOTIONS (316552)</u>		
067 Miscellaneous	<u>\$ 125,000.00</u>	<u>\$ 200,000.00</u>
	\$ 125,000.00	\$ 200,000.00
<u>CLINICS (316556)</u>		
073 Fees & Memberships	<u>\$ 50,000.00</u>	<u>\$ 75,000.00</u>
	\$ 50,000.00	\$ 75,000.00
<u>BUCKEYE SPORTS CAMP (316557)</u>		
073 Fees & Memberships	<u>\$ 355,000.00</u>	<u>\$ 650,000.00</u>
	\$ 355,000.00	\$ 650,000.00
<u>SPORTS CHAMPIONSHIPS (316558)</u>		
052 Tickets - Individual	\$ 20,000.00	\$ 31,000.00
058 Programs	1,000.00	1,000.00
061 Concessions	3,000.00	3,000.00
067 Miscellaneous	33,000.00	37,000.00
073 Entry Fees	<u>3,000.00</u>	<u>3,000.00</u>
	\$ 60,000.00	\$ 75,000.00
<u>GOLF COURSE-OPER (316571)</u>		
073 Fees & Memberships	\$ 862,869.00	\$ 908,305.00
075 Alumni Pool	<u>900.00</u>	<u>9,000.00</u>
	\$ 863,769.00	\$ 917,305.00

	<u>Approved 1987-88</u>	<u>Approved 1988-89</u>
<u>GOLF COURSE-PRO SHOP (316572)</u>		
070 Merchandise Sales	\$ 141,177.00	\$ 145,412.00
071 Rentals	151,425.00	166,725.00
072 Instruction	9,265.00	15,000.00
074 Miscellaneous Sales	<u>67,000.00</u>	<u>75,000.00</u>
	\$ 368,867.00	\$ 402,137.00
<u>GOLF COURSE-RESTAURANT (316573)</u>		
074 Miscellaneous Sales	\$ 5,000.00	\$ 1,000.00
075 Food Sales	289,309.00	303,000.00
076 Beverage Sales	<u>80,000.00</u>	<u>96,000.00</u>
	\$ 374,309.00	\$ 400,000.00
<u>ICE RINK (316575)</u>		
052 Tickets	\$ 48,000.00	\$ 60,000.00
070 Merchandise Sales	102,000.00	110,000.00
071 Rentals	120,000.00	130,000.00
072 Instruction	20,000.00	25,000.00
074 Miscellaneous	<u>15,000.00</u>	<u>15,000.00</u>
	\$ 305,000.00	\$ 340,000.00
<u>BOWL GAMES (316590)</u>		
067 Miscellaneous	<u>\$ 700,000.00</u>	<u>\$ 750,000.00</u>
	\$ 700,000.00	\$ 750,000.00
<u>JESSE OWENS CLASSIC (316591)</u>		
052 Tickets	\$ 30,000.00	\$ 30,000.00
061 Concessions	5,000.00	5,000.00
067 Miscellaneous	<u>20,000.00</u>	<u>15,000.00</u>
	\$ 55,000.00	\$ 50,000.00
	<u>\$16,047,603.00</u>	<u>\$16,625,931.00</u>

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 \$33.2 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, lets 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 an 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.

LOAN 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)

THE OHIO STATE UNIVERSITY
 1988-89 CURRENT FUNDS BUDGET
 2ND QUARTER REPORT

Summary of Proposed Resources
 (In Thousands of Dollars)

	Budgeted 1988-89	Estimated 1988-89	\$ Increase	% Increase
Central Campus				
Unrestricted General Funds	\$420,590	\$420,950	\$360	.1%
Earnings Operations	322,400	323,260	860	.3%
Restricted Funds	192,820	198,320	5,500	2.9%
Total Central Campus	\$935,810	\$942,530	\$6,720	.7%
Regional Campuses	24,240	24,330	90	.4%
OARDC	30,110	30,110	0	.0%
Grand Totals	\$990,160	\$996,970	\$6,810	.7%

THE OHIO STATE UNIVERSITY
 1988-89 CURRENT FUNDS BUDGET
 2ND QUARTER REPORT

Summary of Proposed Uses
 (In Thousands of Dollars)

	Budgeted 1988-89	Estimated 1988-89	\$ Increase	% Increase
Central Campus				
Unrestricted General Funds	\$420,590	\$420,590	\$0	.0%
Earnings Operations	322,400	323,250	850	.3%
Restricted Funds	192,820	198,320	5,500	2.9%
Total Central Campus	\$935,810	\$942,160	\$6,350	.7%
Regional Campuses	23,920	24,000	80	.3%
OARDC	30,110	30,110	0	.0%
Grand Totals	\$989,840	\$996,270	\$6,430	.6%

THE OHIO STATE UNIVERSITY
1988-89 CURRENT FUNDS BUDGET
2ND QUARTER REPORT

All Funds Resources Summary
(in Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1988-89	Budgeted 1988-89
Central Campus					
State Appropriations	\$247.97	\$.00	\$35.61	\$283.58	\$284.72
Student Fees	140.14	5.41	.00	145.55	144.55
Other Resources					
Federal Grants and Contracts	16.67	.00	79.50	96.17	94.03
Ohio Grants and Contracts	.41	.00	13.65	14.06	12.05
Local Grants and Contracts	.70	.00	11.86	12.56	12.44
Private Gifts and Grants	3.73	.00	50.00	53.73	51.00
Endowment Income	1.40	.00	7.70	9.10	9.10
Department and University Services	.41	27.02	.00	27.43	27.43
Auxiliary Sales & Charges	.02	81.33	.00	81.35	82.09
Hospital Sales & Services	.00	201.35	.00	201.35	201.35
Other Sources	9.50	8.15	.00	17.65	17.05
Total Other Resources	\$32.84	\$317.85	\$162.71	\$513.40	\$506.54
Total Central Campus	\$420.95	\$323.26	\$198.32	\$942.53	\$935.81
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
QARDC					
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 QARDC	\$.00	\$1.60	\$28.51	\$30.11	\$30.11
Total University					
State Appropriations	259.88	.00	55.17	315.05	316.44
Student Fees	149.05	5.66	.00	154.71	153.37
Other Resources	33.38	320.32	173.51	527.21	520.35
Total University	\$442.31	\$325.98	\$228.68	\$996.97	\$990.16

THE OHIO STATE UNIVERSITY
 1988-89 CURRENT FUNDS BUDGET
 2ND QUARTER REPORT

All Funds Uses Summary
 (In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1988-89	Budgeted 1988-89
Central Campus					
Educational & General	\$419.65	\$32.43	\$184.13	\$636.21	\$630.71
Auxiliary Enterprises					
Residence & Dining Halls	.00	37.45	.00	37.45	36.42
Intercollegiate Athletics	.00	17.10	3.60	20.70	20.70
Other Auxiliaries	.94	29.90	.00	30.84	31.02
Total Auxiliaries	\$.94	\$84.45	\$3.60	\$88.99	\$88.14
University Hospitals	.00	206.37	10.59	216.96	216.96
Total Central Campus	\$420.59	\$323.25	\$198.32	\$942.16	\$935.81
Regional Campuses					
Agricultural Technical Institute	4.75	.78	.38	5.91	5.83
Lima Campus	4.48	.12	.43	5.03	5.03
Manafield Campus	4.04	.08	.36	4.48	4.53
Marion Campus	3.60	.03	.42	4.05	3.88
Newark Campus	4.16	.12	.26	4.54	4.66
Total Regional Campuses	\$21.03	\$1.12	\$1.85	\$24.00	\$23.92
OARDC	.00	1.60	28.51	30.11	30.11
Total Uses	\$441.62	\$325.97	\$228.68	\$996.27	\$989.84

THE OHIO STATE UNIVERSITY
 1988-89 CURRENT FUNDS BUDGET
 2ND QUARTER REPORT

Distribution of 1988-89 Resources
 Central Campus, Regional Campuses & OARDC
 (In Thousands of Dollars)

	All Funds	Percent of Total	Unrestr. General(4)	Percent of Total
State Appropriations	\$315,050	31.6%	\$259,880	58.8%
Federal Grants & Contracts	102,820	10.3%	16,670	3.8%
Other Government Sources	26,620	2.7%	1,110	.3%
Student Fees				
Instructional (1)	149,050	15.0%	149,050	33.7%
Non-Credit Instruction	5,660	.6%	0	.0%
Hospitals Sales / Services	201,350	20.2%	0	.0%
Other Sales / Services (2)	108,780	10.9%	430	.1%
Private Gifts & Grants	53,730	5.4%	3,730	.8%
Endowment	9,100	.9%	1,400	.3%
Other Sources (3)	24,810	2.5%	10,040	2.3%
Total	\$996,970	100.0%	\$442,310	100.0%

- (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)**

Report to the Fiscal Affairs Committee
Waivers of Competitive Bidding Requirements
October-December, 1988

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:

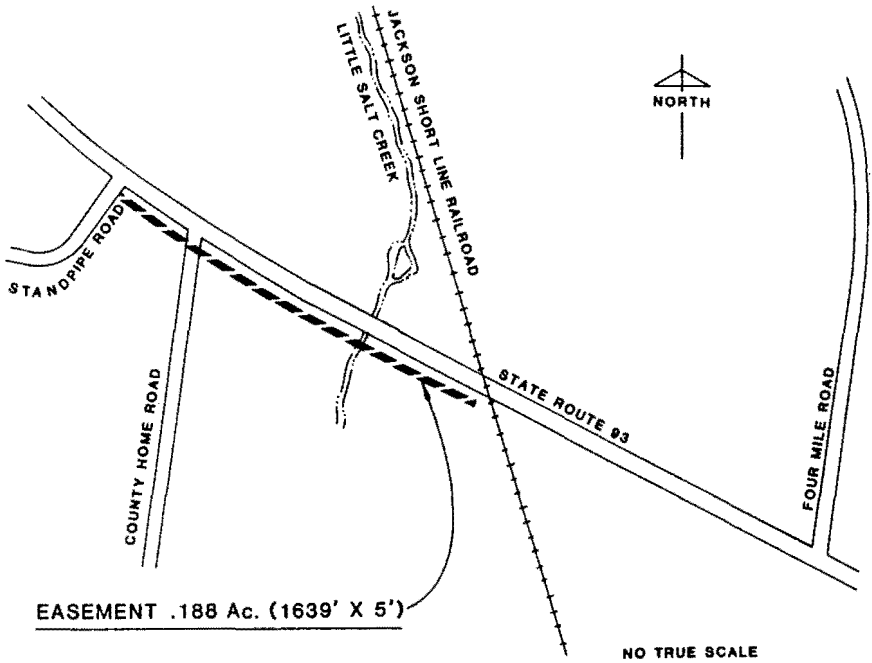
Instructional and Research Equipment	\$258,893	(7 waivers)
Instructional and Research Services	147,700	(8 waivers)
Hospital Equipment and Services	252,600	(6 waivers)
Travel, Accommodations, and Catering	119,988	(6 waivers)
Artists' Services	38,500	(2 waivers)
Research Park Construction Drawings	24,000	(1 waiver)

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

Commencement Speaker

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.

The Graduate School

Dean: Roy A. Koenigsnecht

Doctor of Philosophy

René Anand, Madras, India; B.S. (Loyola College); M.S. (Indian Institute of Technology); *OSU Biochemistry Program*
Dr. E. F. Vanin

Nicolae Anghel, Rumania; B.Sc., M.Sc. (University of Bucharest); *Mathematics*
Dr. Henri Moscovici

Peter Ankrah, Accra, Ghana; B.S. (The University of Ghana); M.S. (The University of Sidney); *Animal Science*
Dr. S. C. Loerch

David Charles Arters, Bedford; B.S. (University of Cincinnati); M.S., *Chemical Engineering*
Dr. Liang-Shih Fan

David Joel Bailey, Slippery Rock, PA; D.L. (Slippery Rock State College); M.A.; *Psychology*
Dr. Dorothy Jackson

Albert Bosma, Ontario, Canada; B.A.; M.A. (Lakehead University); *Education*
Dr. T. Stephens

Leslie Frances Johnson Brady, Minster; B.A. (Capital University); M.A.; *Education*
Dr. William W. Wayson

Craig Bernreuter Caldwell, Flagstaff, AZ; B.A. (Florida Southern College); M.F.A. (University of Florida); *Art Education*
Dr. Thomas E. Linehan

H. Lee Campbell, Columbus; B.S. (Oakland University); *Anatomy*
Dr. Jacqueline C. Bresnahan,
Dr. Michael S. Beattie

Kan-teh Chang, Taiwan, R.O.C.; B.S. (Kaohsiung Teacher's College); M.S. (University of Texas at El Paso); *Chemistry*
Dr. Daniel L. Leussing

Fan-Tien Cheng, Lung-Tan, Taiwan, R.O.C.; B.S.E.E. (National Cheng Kung University); M.S.; *Electrical Engineering*
Dr. David E. Orin

Shiuh-Kao Chiang, Taipei, Taiwan, R.O.C.; B.S. (National Tsing-Hua University); M.S. (University of Notre Dame); *Ceramic Engineering*
Dr. Dennis W. Readey

Shizhen Chou, Hong Kong; B.A. (The Baptist College of Hong Kong); M.A.; *East Asian Languages and Literatures*
Dr. Frank F. S. Hsueh

Peil-Ying Mark Chu, Taichung, Taiwan, R.O.C.; B.S.E.E. (National Taiwan University); M.S.; *Computer and Information Science*
Dr. Ming T. Liu

Jeffrey H. Cinnamond, Lakewood; B.A., M.A., M.A. (Bowling Green State University); *Education*
Dr. Robert Silverman

Frances Hamilton Courson, 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 Czerniak, Toledo; B.A. (The University of Toledo); M.A. (Bowling Green State University); *Education*
Dr. Roger Cunningham

Hashem Dezhbakhsh, Fars, Iran; B.S. (Shiraz University); M.A. (University of Akron); *Economics*
Dr. Jerry Thurshy

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 Couri

Uba Satch Ejike, Umuahia, Imo, Nigeria; LL.B. (Honors), M.S. (The University of Lagos); B.L. (Nigeria Law School); M.A.; *History*
Dr. K. Austin Ke'rr

Kamyar Enshayan-L, Babol, Iran; B.S.M.E., M.S.; *Agricultural Engineering*
Dr. Ted H. Short

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 Kleinman

Jeongmyung Gim, Seoul, South Korea; B.A. (Seoul National University); M.A.; *Health, Physical Education and Recreation*
Dr. Seymour Kleinman

Michael J. Girard, Santa Rosa, CA; B.S., B.S. (University of California at Santa Cruz); *Computer and Information Science*
Dr. Bruce W. Weide

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 Platiz

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. Csuri

Ahmed Ali Hayajneh, Jordan; B.S. (Helwan University); M.A. (Michigan State University); *Health, Physical Education and Recreation*
Dr. Barbara Nelson

Sharda Kattingeri Hebbur, 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 Hsu, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); M.S. (Stanford University); *Engineering Mechanics*
Dr. Carl H. Popelar

Tsorn-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. Sunder H. Advani, Dr. June K. Lee

Anita Patricia Jackson, Zanesville; B.S., M.A. (Ohio University); *Education*
Dr. Susan Sears

Yong-Deok Jeon, Taegu, South Korea; B.A. (Korea University); *Economics*
Dr. Edward J. Ray

Guochen Jia, Shiyn, Hubei, P.R.C.; B.S. (Wuhan University); *Chemistry*
Dr. Devon W. Meek, Dr. Andrew Wojcicki

- Tony Ramos Joaquim**, Newark, NJ; B.A. (Rutgers University); M.A.; *Plant Pathology*
Dr. Randall C. Rowe
- Mary Charlotte Johnson**, Columbus; B.S. (Kent State University); M.A.; *Education*
Dr. Maia Pank Mertz
- Diane Ruth Karius**, Chicago, IL; B.S. (Loyola University); *Physiology*
Dr. Albert L. Kunz
- Billie Louise Kerans**, Columbus; B.S., M.S. (Wright State University); *Zoology*
Dr. Peter Chesson, 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**, Tamilnadu, India; B.E. (Indian Institute of Science); B.S. (A.M. Jain College); M.E. (Regional Engineering College); *Welding Engineering*
Dr. William A. Baeslack
- Jong-Won Kwon**, Seoul, South Korea; B.S. (Hanyang University); M.S.; *Metallurgical Engineering*
Dr. George R. St. Pierre
- Ik-Mo Lee**, Incheon, South Korea; B.S., M.S. (Seoul National University); *Chemistry*
Dr. Andrew Wojcicki
- 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. Sunder H. Advani, 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 Marras, Dr. Robert L. Bartels
- Meily Lin**, Taipei, Taiwan, R.O.C.; B.S. (Cheng-Chi University); M.S.; *Statistics*
Dr. A. Dean
- Alison S. Linn-Mowery**, Delaware; B.S., M.A.; *Psychology*
Dr. Henry Leland
- Mark Owen Lombardi**, Smithfield, RI; B.A. (Purdue University); M.A.; *Political Science*
Dr. James E. Harf
- 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. Naglieri
- 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**, Middlebury, 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 Mullins**, Columbus; B.S.Ed., M.Ed. (Xavier University); *Education*
Dr. Sandra McCormick
- Cherryl McCrary Nappier**, Saint Louis, MO; B.S.Ed. (Central Missouri State University); M.Ed.; *Education*
Dr. James Wigtil
- Michael L. Nortman**, Bayonne, NJ; B.A. (University of Pennsylvania); M.A. (Marshall University); *Education*
Dr. Josue Cruz, Dr. Lorren Stull
- 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 Pfalzer**, 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 Grabner
- William Francis Punch 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 Marantz
- 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 Shewmon
- Wunjang K. Shieh**, Taiwan, R.O.C.; B.S.E.E. (Chung-Yuan University); M.S.E.E. (National Taiwan University); *Electrical Engineering*
Dr. Jogikal M. Jagadeesh
- Gideon Ngaka Shongwe**, Swaziland; B.S. (Western Illinois University); M.S. (University of Guelph); *Agronomy*
Dr. Samuel Traina, Dr. Terry Logan
- Gyung-Ho Song**, Seoul, South Korea; B.S. (Seoul National University); M.S.; *Chemical Engineering*
Dr. Liang-Shih Fan
- Sandhya Balakunthala Sridhar**, Bombay, India; B.A., M.A. (The University of Bombay); *Business Administration*
Dr. Janina C. Latack
- 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**, Mantua, NJ; B.A. (Goucher College); M.S.; *Chemistry*
Dr. Andrew Wojcicki, 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); *OSU Biochemistry Program*
Dr. M. D. Tsai

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. Zwilling

Olegario Guerrero Villoria, Jr., Lipa City, Philippines; B.S. (The University of the Philippines); M.S.; *Civil Engineering*
Dr. Zoltan Nemeth, Dr. Mark McCord

Xiaoming Wan, Wuhan, Hubei, P.R.C.; B.S. (Wuhan University); *Chemistry*
Dr. Laurence J. Berliner

David Alan Wright, Frazeysburg; B.S.; *Health, Physical Education and Recreation*
Dr. William M. Sherman

Simon H. Yen, Taipei, Taiwan, R.O.C.; B.B.A., M.S. (National Cheng-Kung University); M.B.A. (Saint Louis University); M.A.; *Business Administration*
Dr. Rene M. Stulz

Jeffrey Allan Yost, Barberton; B.S.B.A. (Miami University); M.B.A. (University of Akron); *Accounting and Management Information Systems*
Dr. Thomas J. Burns

Master of Applied Statistics

Li-Peng Ho, Taipei, Taiwan, R.O.C.; B.S. (National Chung-Hsing University); *Statistics*

Hweichy Lin, Taipei, Taiwan, R.O.C.; B.Arch. (Tunghai University); *Statistics*

Peter Bradford Shaw, Cincinnati; B.A. (Yale University); M.A. (The University of California at Los Angeles); Ph.D. (The University of California at Davis); *Statistics*

Wen-Dih Yao, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan College of Marine Science and Technology); *Statistics*

Master of Architecture

James Richardson Deane, Killeen, TX; B.S. (The University of Texas at Arlington); *Architecture*

Dimitris A. Farmakis, Thessaloniki, Greece; B.Arch. (Aristotle University of Thessaloniki); *Architecture*

Lora Ellen Sebald, Dayton; B.S.Arch.; *Architecture*

David Allen Youse, Worthington; B.S.Arch.; *Architecture*

Master of Arts

Linda Marie Aldrich, Ypsilanti, MI; B.A. (Hope College); *Psychology*

Spencer A. Alexander, Columbus; B.A. (The College of the City of New York); *English*

Paul William Almonte, Brooklyn, NY; B.A. (Southern University of New York at Binghamton); *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. (Chulalongkorn University); *Education*

Neil James Bardon, Bexley; B.S.Ed.; *Education*

June Reeder Bargar, Delaware; B.S.Soc. Adm.; *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; *Business Administration*

Stephen William Busonik, Columbus; B.Mus.; *English*

Joanna Lawyer Cavendish, Columbus; B.A.; *Education*

Holly Vanmeter 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. (Hanover 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 Doman, 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, MI; 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 Gersi, Dublin; B.S. (Miami University); *Journalism*

William Paul Getzey, Jr., Johnstown, PA; B.F.A. (Edinboro University); *Photography and Cinema*

Janet Sue Gibson, Pickerington; B.S. (Miami University); *Education*

Melisa Hill Graham, Zanesville; B.S.Ed.; *Education*

Jose Filipe Garcia Correia Guedes, Lisbon, Portugal; Bachelors; *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*

Jaqueline Mary Hazlett, Columbus; B.S. Al.Hth.Prof.; *Education*

Pamela Sue Heilman, Havre, MT; B.A. (Rocky Mountain College); *Theatre*

- James Robert Herd**, Fairborn; B.S.Ed.; *Education*
- Evelyn Chiyoko 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 Keating**, Traverse City, MI; B.A. (Michigan State University); *Philosophy*
- Bradford Lee Kess**, 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.Arch, M.Arch. (University of Virginia); *Business Administration*
- Kathryn Alison Kost**, Columbus; B.S. (The University of Wisconsin at Whitewater); *Psychology*
- Linda Catherine Kuhn**, Logan; B.A., B.S.Ed.; *Education*
- Annette Mealy Kuss**, Springfield; B.S.Ed. (Miami University); *Education*
- In-Sub Kwak**, Anyang, Gyeong-Gi, South Korea; B.A. (Pusan National University); *Economics*
- Tracey Weissfeld Lechner**, 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-Pai 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*
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Daniel Ray Lane, Marietta
Joseph Louis Layko, Raleigh, NC
Douglas Eugene Lyle, Columbus
Pamela Marie McDowell, Spottsville, KY
Alice Laurene Payne, Willoughby
Michael Ray Phelps, Troy
Willis Martin Ray III, Springfield
Brian David Rehard, Perrysburg
David Michael Roush, Gahanna
Nancy M. Smathers, 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 Barr, Worthington
Alvaro Gonzalo Barriga, 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 Canestraro, Urbana
Julie Ann Cawley, Urbana
Anna 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 Cousino, Sylvania
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 Erskine, 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 Gutridge, Newark
Jennifer Ruth Haenicke, Kalamazoo, MI
John Benton Hall, Columbus
Nathan Kurt Hall, Newcomerstown
Linda L. Harrison, London
Lorri Ruth Haskell, Auburn, ME
Todd Ellis Hassinger, Ashland
James Andrew Hillmuth, Vermilion
Jon Christopher Hockman, Upper Arlington
Margaret Katherine Holtslander, Sidney
Steven M. Hostetter, Hamburg, NY
Scott Edward Hoy, Grove City
Scott Ann Jacobs, Columbus
Cynthia Ann Jeffrey, Chesterland
Mark James Jeffreys, Gahanna
Lars Christopher Johnson, Worthington
Tracey Anne Judy, Dover
Rhonda Sue Kamins, Pepper Pike
Michael Aaron Kane, Shaker Heights
Douglas John Kay, Erie, PA
Catherine Jean Kessler, Galloway
Michael Sotire Kidididis, Columbus
Soonhyung Kim, Columbus
Steven Ross Klein, Cleveland Heights
Lawrence Alan Kohn, Beachwood
Kimberly Sue Kolacz, Newton Falls
Christopher Kotting, Chagrin Falls
Robert Swarup Kunchal, Aurora
Maureen Ann Lach, New Castle, PA
Michael James Lane, Kirtland
David Leslie LaRosa, Columbus
Ann Ridgway Ledman, Lancaster
Gui-Ah Jennie Lee, Worthington
John Curtis LeVally, Grove City
Florence Elisabeth 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 McQuaide, Worthington
Jeffrey Lynn Mengerink, Napoleon
Nancy Ann Messaros, Elyria
Liz Fazela Mohammed, Columbus
Jennifer Ann Moody, Centerville
April L. Morris, Columbus
Andrea Jeanne Mustard, Columbus
Nan April Navarro, Worthington
Elizabeth J. Norris, Massillon
Patricia Anne O'Carroll, Columbus
Tom Robert Palsgrove, Canal Winchester
James J. Pardi II, Columbus
Daniel Allen Peare, Springfield
Ted Carlton Phillips, Columbus
Jahnee Ranie Prince, Centerville
Mia Angela Prince, Columbus
Lisa 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 Stetz, Medina
Fred W. Strahorn, Cincinnati
John Stringer, Lakewood
Diane Marie Sullivan, Hicksville, NY
Holly Chrysal Sutro, Upper Arlington
Kathy Loren Tarrier, Columbus
Timothy Newton Taylor, Columbus
Jacqueline Tonie Tregellis, 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 Clarice Walker, Columbus
Hilary Beth Wallach, Columbus
Richard Alan Williams, Lima
G. Eric Woodland, Columbus
Richard Harris Wurst, Morristown, NJ
Cynthia Ann Zeck, Columbus
Mark Daniel Zura, Fremont

Bachelor of Science

Angela Kay Chesbrough, Columbus
James Clinton Copeland, Jr., Ashland
Ellen Phillips Cullman, Mansfield
Magda 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, Chardon
Curt Bernard Shaffner, West Chester
Laura M. Wiese, Columbus

School of Journalism

Bachelor of Arts in Journalism

Dara Lynn Albanese, Shadyside
Jodie Lynn Arnett, Monroe
Darrell Lawrence Browning, Cincinnati
Katherine Ann Burnes, Columbus
John Frederick Canaday, Columbus
Anthony Donald Cancelliere, Brecksville
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 Elsbree, 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 Hemming, Grove City
Lisa M. Herhold, Columbus
John Scott Hoskins, Heath
Kathryn Marie Hotchkiss, Salem
John William Keim, Lakewood
Cynthia Ann LeRose, Columbus
Marie Elaine 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 Parkavich, 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 Studer, New Washington
Catherine Lynn Sturgeon, West Chester
Bridgette Ann Tate, Columbus
Kevin Eugene Theessen, 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
Jeffrey Nick Brookhart, Tipp City
Benjamin Marvin Carpenter, Glenford
Matthew James Cessa, Cynnet
James Allen Chambers, Mansfield
Ann M. Champney, Columbus
Ann Marie Chanon, Maple Heights
G. Joseph Colucci, Ashtabula
Christopher John Corcoran, Chillicothe
Joseph Lee Daubenmier, 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 Fehrman, Dayton
Jeffrey Alan Flenniken, Alliance
Bryan Jeffrey Frisch, Avon Lake
Brian Wayne Garrett, Winchester
Michael Andrew Geiger, Creston
Karen Lea Goltz, Hilliard
Elaine Mary Grassbaugh, 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 Humbert, Jr., Fayette
Cheryl Lynn Hutchins, Canal Winchester
Christopher Eugene Keller, Somerville
David J. Koch, Columbus Grove
Jeffrey Todd Leeman, Brewster
Michael Wayne Lehman, Grover 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 Millhon, Westerville
William Harold Moellenkamp,
Wapakoneta
Richard Martin Morgan, Waynesville
David James Pease, Maumee
Holly Ann Perkins, Columbus
Richard Martin Petersen, Oak Harbor
Frank W. Pharazyn, Jr., Plain City
Laura Marie Pisciotta, Columbus
Cynthia Ann Pomeroy, Columbus
Susan Michele Potts, Sunbury
Kristina Marie Richards, Gahanna
Lynn M. Riepenhoff, Lima
Amy Jo Roberts, Malta
Timothy Alan Sarko, Cleveland
Mark Aaron Sayers, Grafton
Marianne Scheiderer, Marysville
Michael Carl Schneider, Chagrin Falls
Mary Elizabeth Smolko-Will, Zanesville
Sherril Ellen Speziale, Columbus
Ronald Russell Strader, Springfield
Steven Joseph Torma, Richfield
Edward Joseph Tuhela, Solon
William Richard VanNostran, Columbus
Michele Renee Vogt, Hamilton
Sandra Ann Wallace, Burgoon
Alex M. Woods, Whitehouse

Bachelor of Science in Food Science

Patricia A. Zullo, North Olmsted

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 Wilburn, 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, Dillionville
Ronald Joseph Dues, St. Henry
Evelyn Ruth Eisenbraun, Struthers
Bradley David Frantz, New Holland
Brett Joseph Gough, Barberton

Lydia Greer Harlamert, Wooster
Melissa Sue Horman, Milan
Jeffrey William Hornsby, Cincinnati
Gregory Martin Kehres, New Washington
Jeffrey Alan Lefever, Polk
Michael Patrick Maloney, Wickliffe
Jacqueline Gail Painter, Charleston, WV
Jamey Edward Rauch, Little Hocking
Dick Christian Reichenbach, Wooster
Lynn Marie Robinette, Wooster
Anthony Robert Stopar, Akron
Leann M. Tussing, Findlay
Joseph Patrick Zusack, St. Clairsville

College of Business

Dean: H. Justin Davidson

Bachelor of Science in Business Administration

Robert A. Ackerman, Worthington
Daniel Paul Ackert, Westerville
Raymond Francis Albertini, Olmsted Township
Debra Jean Allen, Garrison, KY
James Douglas Allen, Worthington
Michael Lee Andrews, Springfield
Tomoyuki Arai, Fairfax, VA
Mustafa Arin, Istanbul, Turkey
Gail Marie Armstrong, Hoosick Falls, NY
Jay E. Azbell, Lancaster
David Michael Barnhart, 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 Bettini, Clifton, VA
Bradley Norman Betts, Dublin
David Allen Bible, Clyde
Joseph Gerard Bidleman, Cincinnati
L. Mark Billeaud, Edwardsville, IL
Edgar Carl Bleick III, Cleveland
Lori Sue Bline, Newark
Douglas Edward Boes, Findlay
Frederick Arnold Borden, Columbus
Duane Douglas Borgelt, Shelby
Gerald Robert Brown, Columbus
Paul Joseph Bruggeman, 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 Coogle, Columbus
J. David Cooke, Jr., Marion
James Thomas Crookston, Stow
Lynda M. Crossan, Worthington

Jeffrey Scott Crumrine, Newark
Kevin Charles Currier, Middletown
John Michael Curry, Galloway
Jacqueline S. Custer, Columbus
Janine Michelle Dabney, Youngstown
Robert Charles D'Amico, 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, Deshler
Eric Duane Dozier, Springfield
Carl Patrick Easton, DeGraff
Trent E. Edwards, Plain City
Craig Patrick Engle, Reynoldsburg
Christopher John Evans, Columbus
Stephanie Rose Evans, Toledo
Maiinda A. Everett, Pickerington
Joan Maureen Fernandez, Columbus
Jeffrey Ray Festog, Galloway
Robert Joseph Fischietto, Bedford
Julie A. Fisher, Prospect
Andrew R. Fodder, Columbus
Evan D. Forbes, South Euclid
Suzette Marie Foster, Bellaire
Earl Bruce Fralick, Niles
Mike E. Francis, New Carlisle
Julie Lynn Frasher, Columbus
Amy Jo Frontz, Bellville
Kristin Ann Garrett, Mansfield
Eric L. Gebler, Chagrin Falls
Bradley Joseph Gilbert, Strongsville
William James Guinco, Jr., Manassquan, 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 Guilford, Jr., Toledo
David Michael Haines, Worthington
Reginald R. Hamilton, Toledo
Brian Jeffrey Hamrock, Rocky River
Michael Leroy Hardin, 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 Holkenborg, Sandusky
Bradley D. Holman, Skokie, IL
Margaret Katherine Holtslander, 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. Husted, Centerville
Thomas W. Ireland, Powell
Jane Elizabeth Irwin, Marysville
Georgia Lynn Jackson, Hilliard
Karl F. Jaeger, Chagrin Falls

Andrew Corland James, Columbus
Janice Lee Jeffries, Chagrin Falls
Steven Gregory Jeray, 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
Keven K. Kenison, Upper Arlington
Joseph Robert Keslar, Wooster
Jenny Rebecca Key, Columbus
Edward Vincent Kiger, Bogota, Colombia
Shaun James King, Columbus
Alan Sean Kirschner, Cincinnati
John Michael Klausung, Delphos
Susan Diane Klingel, Cardington
Kelly Ann Knapp, Suffield
Jeffrey Albert Knightstep, Columbus
Beth A. Kostecka, Mentor
William N. Kulich, Jr., Massillon
Kevin Karl Kutler, Frostburg, MD
Thomas Edward Lah, Parma
Lois Lee, Cleveland
Kevin Neil Levine, South Euclid
Michael W. Lewis, Columbus
Michele Mazon Lincicum, Columbus
Darius Lamarr Longmire, Maple Heights
Bradley Ford Loomis, Elyria
John Philip Lopez, Dayton
Lamar Vincent Love, Columbus
Thomas Edwin Lowenkamp, Richmond Heights
Mark Jeffrey Ludwig, Lake Zurich, IL
Kenneth Bradley Luke, Centerville
Dan E. Lunde, Smithtown, NY
Michael Nolan Madden, Rosedale
William Frank Makowski, Parma
Christine A. Maltinsky, Minster
Jonathan Lesley Marcus, Berkeley Heights, NJ
Philip Marsh, Columbus
William W. Marshall III, Lorain
Robert John Martino, Novelty
Tammy Jo Meissner, Salem
Dina Marie Melchiorre, Columbus
Todd Alan Metcalf, 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
Phillip James Mosser, Fremont
Christopher Scott Neal, Cincinnati
Ross Bernard Nellesen, Springfield
Kenneth Ray Null, Jr., London
Thomas C. Orr, Columbus
Leonard E. Orzech, Strongsville
Shawn Vincent Osborne, Columbus
Laura Ann Pelelach, Huron
William John Pelts, West Jefferson
David Jackson Phillips, Kent
Linda Neikirk Piatt, Columbus
John Anthony Piccininni, Columbus
Timothy Floyd Poe, Columbus

Supaluck Poosaguansith, Cholburi, Thailand

Yuvaree Poosaguansith, Cholburi, Thailand

Andrew Portier, Columbus

Michael Wesley Predina, Chagrin Falls

David A. Prosser, Sandusky

Thomas Joseph Purcell, Columbus

George Alan Radcliff, Galloway

Prabha Ramani, Columbus

Maher Abdel Rasul, Ashtabula

T. Basil Rau, Worthington

Lisa Marie Regrut, Columbus

Joseph W. Reilman, Cincinnati

Brian Dean Rice, Bloomdale

Natalie Diane Richmond,

New Philadelphia

Craig Stephen Richter, Russell

John J. Rider, Centerville

Kathleen Teresa Rietschlin, Crestline

Mark E. Ritchey, Dublin

David Christopher Roach,

Fort Wayne, IN

Christopher Ronald Roberts, Westerville

Carey Ann Roebuck, Columbus

Donna Lynn Romell, Berlin Heights

Brian Chris Rondon, Galion

Lisa Marie Root, Lima

Guy C. Rosa, Maple Heights

Douglas Richard Rose, Euclid

Timothy Leroy Rosenberg, Mentor

Jeffrey Kent Ross, Waynesville

Ann Throckmorton Rotondo, Columbus

John Charles Ryan, Plainfield, IL

Douglas Stewart Saxe, Groveport

Anthony Joseph Saylor, Lima

Jeffrey Lee Schade, Youngstown

William R. Schenk, Vickery

Lori Anne Schneider, Worthington

Richard Lee Schnoor, Columbus

Carl Patrick Schnorf, Sylvania

Ronald Wayne Scott, Jr., Huron

Steven Secord, Lockport, NY

Stephen Charles Sedam, Columbus

David Michael Sewickley, Youngstown

Glen Michael Sharrer, Lexington

John Timothy Shave, Rocky River

Brian Thomas Shea, Newark

Pamela Lynne Shugarts, Newark

Darin Scott Simpson, Baltimore

Jana Lynn Simpson, Galion

Randy Allen Sine, New Carlisle

Norman Dean Sinreich, Rocky River

Andrew J. Song, Columbus

Patricia L. Spak, Columbus

Rodney Daniel Sparks, Galion

Richard Jay Strickling, Woodfield

Sukiman Suherman, Medan, Indonesia

Hasim Sukamto, Jakarta-Pusat, Indonesia

Sean Patrick Sullivan, Youngstown

Ian Mario Superville, Gahanna

Scott J. Takacs, Fairborn

Tow-Ee Tan, Singapore, Singapore

Stephanie Timberlake, Reynoldsburg

Scott Earl Tipton, Amelia

Kartini Tjuaja, Medan, Indonesia

Dianne Mae Tracey, Howard

Colin Trueman, Amlin

Denise Marie Vermillion, Columbus

Jennifer Lynn Weaver, Westerville

Kevin Christopher Welch, Upper

Arlington

Kevin Lee Wibbeler, New Knoxville

Brandon Scott Wigman, Cincinnati

John Raymond Williams, Delaware

Loren Russell Williams, Sylvania

William Howard Wintrow, Vandalia

Donna Lynne Wiseman, London

Richard Charles Wolfe, Pickerington

Kimberly Sue Woodward, Findlay

David Allen Wright, Youngstown

Sue-Yuan Lin Yeh, Houston, TX

Mark Michael Yonchak, Chesterland

Connie J. Zolciak, Waterville

College of Dentistry

Dean: William R. Wallace

Certificate of Graduate Dental Hygienist

Kim Denise Kennedy, Cleveland

College of Education

Dean: Donald P. Anderson

Bachelor of Science in Education

Andrew Donald Altenburger, Ottoville

Lynne Marie Aithoff, Columbus

Linda Joyce Ashworth, St. Clairsville

Diane Elizabeth Au, Reynoldsburg

Ann Davis Barnes, Gahanna

Douglas Gerald Beak, Mansfield

Wendy Rae Beerbower, Columbus

Joyce Lynn Beiden, Lima

Mark Samuel Benson, Columbus

Timothy Lynn Berridge, Columbus

David Scott Binau, Loudonville

Karen Ann Blair, Newbury

Shauna Marie Blue, Dublin

Ellis Edward Booth, Ravenswood, WV

Janeen Marie Calame, Medina

David James Campbell, Berea

Joseph Michael Canestraro, Steubenville

Lori Marie Capretta, Worthington

Kristy Elizabeth Casey, Lima

Steven Lee Childers, Columbus

Kevin Paul Clark, Ashland

Joy Anna Colburn, Wooster

Timothy Ann Cook, Columbus

Robin Lin Cook, Lima

Kathleen Lee Crowley, Powell

William James Curry, Worthington

Rodney Alan Daugherty, Mansfield

Sondra Sue Davis, Lima

Cynthia Ann Dean, LaRue

John Michael Denton, Galena

Lisa Kay Dickinson, Mt. Victory

Margaret Macrina Dorrian, Columbus

Laura Elaine Draper, North Canton

John Brooks Duncan, Columbus

Scott Allen Evans, Columbus

Manny Eugene Flowers, Utica

Michelle Renee Foltz, Vaughnsville

Anthony Paul Giacalone, Naperville

Jacqueline Ann Giles, North Fairfield

Lucille E. Gill-Lafferty, Crestline

Joseph Charles Ginter, St. Marys

Karen Louise Goetz, Worthington

Julie Ann Griffith, Columbus

Janelle Dawn Hadsell, Lima

Abby Lynn Hall, Germantown

Kenny Dale Harper, Worthington

Toree Lewis Heffner, Lima

Dianne Kathleen Herod, Lima

Phyllis M. Herzog, Columbus

Matthew Richard Hexter, Bay Village

Christine Marie Hines, Lancaster

Amy Suzanne Hinterschied, Columbus

Dianne Irene Hoehn, Lima

Carl Roy Hopple, Columbus

Mary Hunsinger, Lexington

Susan Marie Kirchner, Columbus

Robert Andrew Klinker, Waverly

Ellen Marie Laubis, Kenton

Michael Joseph Laurent, Lima

Teresa A. Laurita, Ada

Todd Wishart Lazenby, Marysville

Michelle Louise Levin, Grove City

Allan Jason Levine, Lakewood, NJ

Michelle Renee Lokai, Springfield

Cheryl Lynn Louis, Lyndhurst

Michael Allen Martin, Columbus

David Dean McBride, Mansfield

Thomas Patrick McBride, Cambridge

Kathleen Mary McGonagle, Lancaster

Gregg Allen McKee, Forest

Traci Lynn McQuillen, Lexington

Terry D. Metz, Marion

Sarah Anne Metzger, Lima

Daryl Logan Miller, Columbus

Regan Fair Miller, Big Prairie

Tina Marie Miller, Lima

George Albert Moroschan, Lakewood

Christine Paige Neff, Columbus

Curtis Ray New, Groveport

Tommy Joe Newson, Columbus

Maxwell Joseph Nichols, Lima

Link Alan Noykos, New Hampshire

Rebecca Ann O'Connors, West Jefferson

Kenn Lee Oglesbee, Columbus

Paul Anthony Oravetz, Jr., Elyria

Kimberly Kay Otermat, Fremont

David John Palguta, Bellbrook

Brian Andrew Patten, Newhall, CA

Giuseppina Pizzuti, Worthington

Donald Joseph Powers, East Aurora

Kim Ann Prochaska, Cleveland

Kim Edward Ray, Troy

Garrick Martin Richards, Columbus

Kimberly Kay Rinehart, Wapakoneta

Larry Allen Rianer, Bucyrus

Timothy James Roller, Shelby

William Darr Routzong, Worthington

Joyce Marie Schulze, Anna

Linda D. Schumacher, Westerville

Patrick Edward Schumer, Canfield

Stuart Andrew SHERK, Dayton

Nancie Catherine Shillington, Columbus

James Crayton Shumaker, Dresden
Amy Elizabeth Simpson, Ashland
Paul A. Stanca, Columbus
Diane Marie Stavole, Parma Heights
Nancy Ann Stecklein, Bexley
John Davidson Stock, Lewisburg
Melissa Sue Stoneburner, Pataskala
Shelley Ann Straits, Millersburg
Deborah Ann Sumpter, Clairton, PA
Mary B. Swank, Newark
Rebecca Sue Swason, Columbus
Lisa Marie Truitt, Lima
Michaele Christine Von Ville, Delaware
Dana Joy Weiss, Moreland Hills
Rebecca Sue Wettig, Van Wert
Tedd Eric Wiley, Canfield
Michael Alan Williams, Shiloh
Janet C. Wyant, Elida
Melinda Renee Young, Cincinnati

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. Glowler

Bachelor of Science in Aeronautical and Astronautical Engineering

Ronald John Bayless, Fremont
Gregg Kelly Fenton, Columbus
Dewayne Charles Kendall, Dayton
Robyn Lynn Reuss, Ashland
Lawrence Christopher Rogers, Fairborn
Kevin Allen Stockard, Toledo

Bachelor of Science in Agricultural Engineering

Nancy Lee Anderson, Lakewood
Troy Lee Brunn, Springfield
Eric Willson Clausen, Wauseon
Karen Martha Grenus, Fairlawn

Bachelor of Science in Aviation

Barry Alan Gloth, Erie, PA
Daniel Martin Johnson, Fostoria
Michael James Rosing, Ingleside, IL
Dana Jean Sessanna, Parma Heights
Andrew Edward Shillington, Columbus
Kenneth Randall Souder, Columbus
Greg W. Thorne, Mentor

Bachelor of Science in Ceramic Engineering

William Eldon Endres, Centerville
Marla Jane Gilkison, Columbus
Joel Coburn Preston, Radnor

Bachelor of Science in Chemical Engineering

David John Bartolec, West Lafayette
Stuart Franklin Doty, Findlay
Mario Anthony Formica, Cleveland
Dimitrios Slioupkidis, 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 Hirschfeld, 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, Hartville
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
Suryanus Neos, Ujung Pandang, Indonesia
Khe Seng Ong, Surabaya, Indonesia
Christopher James Roda, Willoughby
Tamara Lynn Schilling, Galion
Robert Eric Slawson, Worthington
Joseph Benjamin Stimpfl, Peninsula
Jay Albert Towstee, Hilliard
Michael L. Zachman, Marion

Bachelor of Science in Electrical Engineering

Mohamed Ayid Al-Majali, Karak, Jordan
James Richard Ambrose, Euclid
Matthew Timothy Bard, York, PA
Brian James Barrett, Columbus

Jeffrey Eugene Bauman, Westerville
Garry Lee Brannon, Centerville
Marc Carlo Carbeta, Mansfield
Lee Allen Clark, Napoleon
Thomas Bruce DeVore, Westerville
Hung Duc Do, Columbus
David Paul Duscheid, Worthington
Joyce Ann Fichtner, Hartsville
Joseph Theodore Heaphey, Granville
Larry Eugene Heisler, Tamaqua, PA
Greg Allen Katrenick, Uniontown
Ronald John Koch, Akron
Jeffrey Alan Lauro, Akron
Anthony Charles Lensing, Columbus
Patrick John Limpach, Ottawa
Douglas Edward Loyer, Worthington
Kerry George Maligas, Warren
Steven Edward Masonbrink, Marysville
Daniel Laurance May, Granville
Glenn Patrick McCarthy, Columbus
Brian Joseph Miller, Middleburg Heights
Christopher Aaron Miller, Columbus
Matthew Allan Moon, Columbus
Mark James Morscher, 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 Rojas, La Paz, Bolivia
Stephen Glenn Rudie, Chillicothe
Satoshi Sakurai, Worthington
Michael Allen Schy, Montvale, NJ
Tania Denise Streun, Van Der Bijl Park, South Africa
Timothy Lee Sustersic, Brecksville
Chuen-Kit Tan, Hong Kong
Anthony Robert Vasile, Jr., Rochester, NY
Nhan Huu 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 Petric, 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 Gail, Urbana
Sheryl Stephanie Jackson, Columbus
Bradley Harlan Laser, Mansfield
Jonathan Michael Linn, Cleveland
Kassim Abdul Mahdi, Freetown, Sierra Leone
Laura May McDonel, Northwood
Scott H. McLaine, Tipp City
Jeffrey Paul Oneth, Temple, TX

Anh Kim Pham, Columbus
David Peter Resetar, Ellicott City, MD
Don Scott Rimer, Vaughnsville
David Wesley Rubadeux, Toledo
Debra Lynn Schomer, Lima
Marta Alicia Stayonoff, Troy
Alice Anne Stelyn, Dayton
Monica Anne Topp, Centerville
Nancy Jean Trochilil, 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 Enzweiler,
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
Pam Lee Stoffer, Lorain
Jerry 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 Abdulrahman,
Damascus, Syria
Jack Lewis Bargaheiser, 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 Balding, Newark
Deborah J. Brinkley, Lewisburg
Emily Pintz Bush, New Concord
Lori Lee Campbell, Kettering
Diane Marie Del Balso, Richmond
Barbara Lynn Dressler, Copley
Charlene Rainett Dunmon, Mansfield
Michelle Allison Dzurko, Massillon
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 Hovatter, Uniontown
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
Maria Jo Kowitz, Mayfield Heights
Linda Kay Kruger, Beavercreek
Hwei-Nah Lin, Columbus
Kimberly Suzanne Loeb, Columbus

Laura Lynn Marryott, Columbus
Lynn Ann Nicolai, Bay Village
Sherry Lynne Orth, Columbus
Kimberly Renee Pierce, Cincinnati
Guilherme Saggese Pinto, Rio de Janeiro,
Brazil

Marcia Ann Polas, Poland
TaRell Derry Poling, Columbus
Celia Mabel Reyes, Zanesville
Marie Anne Ridgeway, Columbus
Bruce Howard Roth, Beachwood
Elizabeth Anne Rumm, Worthington
Maria Christina Salamony, Seattle, WA
Tammy Lynn Sergeant, Lorain
Mary Barr Sexton, Grove City
Laura Ellen Smith, Perrysburg
Laura Jean Sudkamp, Olmsted Falls
Toni Ann Thompson, Worthington
Rebecca Louise Vazquez, St. Clairsville
Jill R. Virts, Columbus
Tina Marie Welis, Woodsfield
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
Marykay Barnes, Euclid
Carlene Elizabeth Bennett, Sylvania

Jeffrey Stephen Binns, Columbus
 Victoria Ann Briggs, Columbus
 Laura Johnson Burge, Worthington
 April Louise Cnihfield, Mayfield Heights
 Wendy Lee Davis, Frederick, MD
 Rita Jean Dechant, Oberlin
 Leigh Ann Donatini, Canton
 Catherine Marie Driehaus, Cincinnati
 Kathy Jo Duncan, Loudonville
 Karen Marie Finke, Cincinnati
 Nicole E. Forman, Dayton
 Meg Marie Forthofer, North Ridgeville
 Steven Michael Frey, Forest
 George John Georgiandis, Steubenville
 Ruth Ann Gilbiand, 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 Kessler, Columbus
 Christine Anne Lachman, Hartsville
 Susan Mary Lamantia, Toronto
 Danelle Marie Macke, Dublin
 Alice Marie Maite, Columbus
 Annette Helen Marinelli, Mansfield
 Teresa H. Miller, Chillicothe
 Steven James Mitchell, Fairport Harbor
 Nancy Marie Monrig, Ironton
 Michael Henry Newhart, Bellaire
 Cynthia A. Palmer, Columbus
 Teresa Shutler Patterson, Jackson, MI
 David Woodburn Phelan, Reynoldsburg
 Lisa Ann Potts, North Canton
 Joanne Marie Prushing, Trenton
 Shelly Shaffer Reardon, Aurora
 Jeanne Marie Reilly, Upper Arlington
 Susan Marie Rice, Warren
 Melissa Lynn Richardson, Fairfield
 Angela Judith Rosenstock, Westerville
 Cynthia Kay Samlow, Napoleon
 Maria Terese Sarisky, Kirtland
 Sue Sheeran, New Lexington
 Shari Lynne Sigler, New Carlisle
 Cynthia Lynn Siudela, Bethel Park, PA
 Gina DiFranco Smith, Worthington
 Amy Lynne Stockslager, Tipp City
 Dorothy Irene Sturman, Fairview Park
 Ronald Gerard Thornburn, Cincinnati
 Pamela Jane Tyler, Canton
 Pamela Jean Vasiloff, Avon Lake
 Jocelyn Denise Wagley, Beaver Creek
 Robert Owen Whittington Jr., Columbus
 Sandra Kay Wilker, St. Marys
 Daphne Michele Ziegler, Niles

Certificate of Post Baccalaureate Circulation Technologist

Robert Norman Forest, Ashland
 B.S. (University of Maine)

Ann Marie Kozlowski, Bay Village
 B.S. (Eastern Kentucky University)

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 laleen Mossbarger, Mt. Sterling
 Monica Marie Poptic, Newton Falls
 Constance Elaine Vasser Roser, Delaware
 Mary Jean Vickers, Columbus
 Carol Ross Watkins, Mansfield

College of Pharmacy

Dean: John M. Cassady

Doctor of Pharmacy

James Thomas Morris, Coshocton

Bachelor of Science in Pharmacy

Lisa Ann Marie Darvanan, Youngstown
 Douglas Edward Gallo, Columbus
 Ayad Kamal Ghani, Dublin
 Thomas Christopher Howe, Newark
 James William Jones, Columbus
 Lisa Ann Joseph, Zanesville
 Seyoum Kiffle, 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 circricular distinction and dedication to high educational goals.

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 Nathan
 Terese Marie Tiburzio
 Jacqueline Tonie Tregellis

Summa Cum Laude

Christopher Allen Bergsman
 Lori Marie Capretta
 James Thomas Crookston
 Julie Anne Hearson
 Thomas Evan Lowenkamp
 Thomas Richard Miller
 Carrie Jane Niese
 Linda Neikirk Piatt
 Susan Marie Rice
 Resa Ann Robinson
 Marianne Scheiderer
 Cynthia Lynn Siudela
 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
 Pandel Lee Collaros
 Jennifer Ruth Haenicke
 Stacy Anne Hickenbottom
 Keven K. Kenison
 Todd Alan Metcalf
 Mark James Morscher
 David Michael Roush
 Loren Russell Williams

With Honors in the Liberal Arts

Mary Louise Gallagher
 Jon Christopher Hockman

With University Honors

Peggy Louise Halley
Vera Clarice Walker

Nancy M. Smathers
Diane Marie Stavole
Tow-Ee Tan
Nancy Jean Trochlil
Michele Renee Vogt
Deborah Kay Weiss
William Howard Wintrow

Cum Laude

Jay E. Azbell
Joyce Lynn Belden
Emily Pintz Bush
Janeen Marie Calame
Beverly Ann Caley
Kevin Paul Clark
Jennifer Lynn Cofer
Karen Ann Cook
Kathleen Lee Crowley
Joseph Lee Daubemier
Cynthia Ann Dean
Jay Michael DeLong
Dana Ann Elliott
Phillip Dale Farnbacher
Kyra Marie Fleming
Bradley Joseph Gall
Kristin Ann Garrett
Karen Louise Goetz
Ann Catherine Grimm
Tracy Beth Hall
Marcine Gail Harenberg
Cynthia Ann Hassil
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 Reardon
Don Scott Rimer
Jerry C. Rockwell
Donna Lynn Romell
Constance Elaine Vasser Roser
Satoshi Sakurai
Mark Aaron Sayers
Joyce Marie Schulze

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.

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Minutes of the last meeting were approved.

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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.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Sophia L. Paige, and Laurel A. Davis.

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Mr. Immke announced the appointment of the following persons to the Nominating Committee:

Shirley D. Bowser, Chairperson
Hamilton J. Teaford
John J. Barone

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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.

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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

**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.

**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 other words, 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 dual mission of technical education for a particular occupation or the first two-years of liberal education that would transfer to a baccalaureate degree.

**PERSPECTIVE ON LAND-GRANT UNIVERSITIES IN THE 1990'S
AND BEYOND (contd)**

President Jennings: (contd)

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-Burkeley, 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.)

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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. Percel 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.

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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.

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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

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 expectations 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.)

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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.

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.

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**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.

**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)

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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.)

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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.

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

- (B) "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 to participating in governance at the departmental and college levels, but may not participate in promotion and tenure matters of regular faculty.

Balance unchanged.

3335-5-471 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.

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DISTINGUISHED SERVICE AWARDS

Resolution No. 89-84

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 Hosteller, a major capital campaign has become viable for the College.

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

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.

April 7, 1989 meeting, Board of Trustees

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.

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HONORARY DEGREE

Resoluton 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:

April 7, 1989 meeting, Board of Trustees

HONORARY DEGREE (contd)

Julian B. Rotter

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.

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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 6, 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.

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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.

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PERSONNEL ACTIONS

Resolution No. 89-88

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

NAME: RICHARD A. HOLLINGSWORTH
Title: Dean of Student Life
Office: Student Life
Effective: March 1, 1989
Salary: \$55,080.00
Present Position: Acting Dean of Student Life

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. Alberty*

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. TYZNIK, 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 April 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.

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.

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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.

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.

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.

RESOLUTIONS IN MEMORIAM (contd)

Leslie H. Miller

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 18, 1989, of Leslie H. Miller, Professor Emeritus in the Department of Mathematics.

Dr. Miller was born in Ironton, Ohio, on March 21, 1914, and graduated from Ironton High School in 1931. He attended Rio Grande College, and earned a B.S. in Mathematics Education from Ohio University in 1935. He taught in the Ironton Public Schools for two years before returning to Ohio University, where he received an M.A. in Mathematics in 1937. From then until 1940, Dr. Miller taught at Cedarville College. He then started graduate work at The Ohio State University, where he earned a Ph.D. in Mathematics in 1943.

Dr. Miller served in the United States Navy from August 1943 until he was discharged in December 1944. He returned to The Ohio State University Mathematics Department, and remained there until his retirement as Professor Emeritus in 1979.

Dr. Miller was the author of three college-level textbooks. He developed mathematical methods for computer art, and continued this activity after his retirement. He was a member of several professional societies, including the American Mathematical Society; the Mathematical Association of America; the American Association for the Advancement of Science; and the National Council of Teachers of Mathematics.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Dr. 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.

Donald W. Riley

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.

April 7, 1989 meeting, Board of Trustees

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 19543-45 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.

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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 of 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.

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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.

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Steve Sloan: (contd)

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 text books 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 it 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. I 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 Koenigsnecht 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.

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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:

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 proposed 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. Yiamouyiannis: (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 Hecmanczuk, 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.)

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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.)

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FISCAL AFFAIRS COMMITTEE REPORT

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.

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

SUMMARY FOR JANUARY 1989

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	116	\$10,524,497.61
Engineering Experiment Station	87	\$ 1,036,244.00
Total	203	\$11,560,741.61
The Ohio State University Development Fund		
Establishment of Named Funds		
The Rita C. and Oscar L. Thomas, Sr. Fund (College of Business)		\$ 100,000.00
The Lloyd G. and Virginia Sharp Memorial Scholarship Fund for Carroll County (Scholarships)		\$ 22,984.19
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)		\$ 17,850.00
The Sue Ann Dowell Schott Agricultural Fund (Fund graduate fellowships, sponsor seminars or provide support for programs)		\$ 17,687.50
The Ohio State University Marion Campus Founders Scholarship Endowment Fund (Scholarships)		\$ 15,646.68
The Virginia A. Arnold Scholarship Fund in Elementary Education (Scholarships)		\$ 15,000.00
The Dr. Henry J. Detmers Fund in Veterinary Medicine (Discretion of the Dean)		\$ 15,000.00

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

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	98	\$ 6,335,011.00
Engineering Experiment Station	57	\$ 152,529.00
Total	155	\$ 6,487,540.00

The Ohio State University Development Fund

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

April 7, 1989 meeting, Board of Trustees

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - January 1989

Federal Research Contracts/Grants

\$1,545,000.00 - Department of Energy, Argonne, Illinois, High Energy Physics, Department of Physics (High Energy Physics Group: S. Durkin, H. P. Kagan, R. D. Kass, K. D. Lane, T. Y. Ling, A. J. Niemi, W. F. Palmer, S. S. Pinsky, N. W. Reay, K. Reibel, T. A. Romanowski, J. Shigemitsu, R. A. Sidwell, N. R. Stanton, G. Steigman, K. Tanaka and W. W. Wada), 1 January 1989 through 31 December 1989. (Project 762116 - Continuation)

\$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)

\$263,746.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, 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)

\$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)

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)

\$164,319.00 - National Science Foundation, Washington, D.C., Finite Deformation Hygrothermomechanical Response Evaluation of Geologic Media, Department of Engineering Mechanics (S. H. Advani and J. K. Lee), 1 January 1989 through 31 December 1990. (Project 767266 - New)

\$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. Orosz), 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-1 Infection, Department of Veterinary Pathobiology (R. G. Olson and L. E. Mathes), 1 December 1988 through 30 November 1989. (Project 765057 - Continuation)

\$153,967.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Thermodynamic and Diffusivity Measurements in Potential Ultra-High Temperature Composite Materials, Department of Materials Science and Engineering (J. D. Cawley and G. R. St. Pierre), 1 January 1989 through 30 September 1989. (Project 766346 - 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)

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)

\$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 - 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 1988 through 30 November 1989. (Project 767249 - New)

\$85,061.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Fentfluramine 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)

\$74,254.00 - National Science Foundation, Washington, D.C., Computer Graphics Laboratory for Teaching Geological Science, Department of Geology and Mineralogy (J. J. Daniels and T. J. Wilson), 15 January 1989 through 31 December 1990. (Project 767262 - 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)

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)

\$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)

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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 the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Modeling Cumulative Damage Processes in Composite Laminates, Department of Civil Engineering (R. S. Sandhu), 1 October 1988 through 30 June 1989. (Project 764779 - Continuation)

\$21,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Regulation of Splicing of Drosophila MLC-ALK Pre-mRNA, Department of Molecular Genetics (S. Falkenthal and B. G. Leicht), 1 February 1989 through 31 January 1990. (Project 766565 - Continuation)

\$15,350.00 - 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)

\$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)

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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 766953 - 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)

\$3,284.00 - State of Ohio, 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 - 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)

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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

\$880,146.00 - Abt Associates, Inc., Cambridge, Massachusetts, Evaluation of Transitions to Independence, Center on Education and Training for Employment (R. D. Ryan), 13 October 1988 through 1 March 1993. (Project 767267 - New)

\$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 Toleration 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 767239 - New)

\$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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$59,197.00 - Pfizer, Inc., Groton, Connecticut, 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 14 September 1988. (Project 765696 - Continuation)

\$53,687.00 - 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)

\$50,662.00 - Riker Laboratories, Inc., St. Paul, Minnesota, Open-Label Safety and Efficacy Study of Flecainide Acetate in the Treatment of Supraventricular Arrhythmias, Department of Internal Medicine (S. F. Schaal, S. D. Nelson and C. Love), 1 January 1989 through 13 December 1989. (Project 767247 - New)

\$49,975.00 - 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)

\$44,902.00 - Pfizer, Inc., Groton, Connecticut, Azithromycin in the Treatment of Acute Lower Respiratory Tract Infections -- A Multicenter, Third Party, Blinded Trial Employing Ceclor as a Comparative Agent, University Health Service (D. I. Charles), 1 October 1988 through 30 September 1989. (Project 767256 - New)

\$20,000.00 - 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)

\$19,966.00 - 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)

\$15,128.00 - 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)

\$15,015.00 - 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)

\$15,000.00 - 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 766275 - Continuation)

\$8,623.00 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

\$900.00 - Ohio Ground Water Consultants, Inc., Columbus, Ohio, Pollen Analysis, Byrd Polar Research Center (D. H. Elliot), 7 December 1988 through 31 March 1989. (Project 767271 - New)

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)

Equipment - Motorola, Inc., Phoenix, Arizona, Development of a Fast Parallel Processing Function for the Scanning Laser Imaging System, College of Pharmacy (J. M. Jagadeesh) and Comprehensive Cancer Center (L. D. Tomei), 1 August 1988 through 30 June 1989. (Project 767252 - New) (Approximate Dollar Value - \$6,750)

TOTAL - INDUSTRIAL AWARDS **\$2,472,699.30**

Other Non-Federal Research Contracts/Grants

\$182,759.06 - Indonesian Government, Jakarta, Indonesia, Partial Management Support Plan, College of Education - Administration (J. J. Buffer), 1 May 1988 through 31 December 1990. (Project 767036 - New)

\$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 767228 - New)

\$35,200.00 - Georgia Department of Education, Atlanta, Georgia, Pilot Test Procedures for Evaluating Georgia Secondary Vocational Education Programs, Center on Education and Training for Employment (R. D. Ryan), 1 January 1989 through 31 October 1989. (Project 767251 - New)

\$34,300.00 - Florida Power and Light Company, Miami, 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)

\$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)

\$23,858.00 - University of Arkansas, Fayetteville, Arkansas, Consortium for the Development of Professional Materials for Vocational Education, Center on Education and Training for Employment (R. D. Ryan), 1 December 1988 through 30 June 1989. (Project 767002 - Continuation)

\$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 III: 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)

\$17,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, A Mammalian Estrogenicity Testing System for Polyhalogenated Hydrocarbons: Genetic Toxicological Testing for Potentially Estrogenic Substances, Department of Dairy Science - OARDC (C. P. Hodgson and L. B. Willett), 1 January 1989 through 31 December 1989. (Project 765117 - Continuation)

\$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 - Miami Valley Research Institute, Kettering, Ohio, OSU Participation in the Artificial Intelligence Center at Wright-Patterson Air Force Base, Department of Computer and Information Science (B. Chandrasekaran) and Department of Chemical Engineering (J. F. Davis), 1 November 1987 through 15 October 1988. (Project 767213 - New)

\$7,000.00 - 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 766867 - 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)

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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 765208 - 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

\$150,032.00 - Armco Research and Technology, Middletown, OH, "Application of Swirling Melt/Gas Flow in Slab Caster Tundishes," Department of Materials Science and Engineering, 1 November 1988 through 31 October 1991. (312490)

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, Exts. 2 & 3)

\$52,894.00 - McDonnell Douglas Corp., St. Louis, MO, "Analysis of Electromagnetic Scattering from Electrically Large Ducts/Cavities," Department of Electrical Engineering, 31 October 1987, through 30 September 1989. (312436, Ext. 1)

\$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)

\$41,552.00 - IBM, Hopewell Junction, NY, "Thermoviscoelastic Characterization of a Polyimide Material for Electronics Applications," Department of Engineering Mechanics, 1 November 1988 through 31 October 1989. (529787)

\$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)

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)

\$25,168.00 - General Electric, AEBG, Evendale, OH, "Gleeble Study of Advanced Alpha-Two and Gamma Titanium Aluminides," Department of Welding Engineering, 3 November 1988 through 31 December 1988. (312487)

\$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)

\$10,000.00 - Chevron Oil Field Research Company, La Habra, CA, "Application of Characteristic Time Concepts for Hydraulic Fracture Configuration Design, Control and Optimization," Department of Engineering Mechanics, 1 January 1989 through 31 December 1989. (529788)

\$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.

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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

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 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.

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 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.

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.

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)

\$314,320.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Operation of an Educational Resources Information Center (ERIC) Clearinghouse on Science, Mathematics, and Education, Educational Studies: Humanities, Science, Technological and Vocational (R. W. Howe), 1 January 1989 through 31 December 1989. (Project 766518 - 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 Turbopan,

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 766661 - 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 767305 - New)

\$114,200.00 - 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 January 1989 through 31 December 1989. (Project 765832 - Continuation)

\$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)

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)

\$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)

\$79,930.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Gustatory System: Cellular and Synaptic Organization, Oral Biology (M. C. Whitehead), 1 February 1989 through 31 January 1990. (Project 766592 - Continuation)

\$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 T_C (Transition Temperatures) Superconductors, Department of Electrical Engineering (G. J. Valco), 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)

\$33,233.00 - Department of Defense, Defense Supply Service, Washington, D.C., The Problem of Net Assessment in an Historical Context, Mershon Center for Education (A. R. Millett), and Department of History (W. Murray), 1 October 1988 through 24 April 1989. (Project 765401 - 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, Paleoecology, 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)

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)

\$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)

TOTAL - FEDERAL AWARDS \$4,702,247.00

State of Ohio Research Contracts/Grants

\$200,000.00 - State of Ohio, Department of Aging, Columbus, Ohio, OSU Alzheimers Disease Research Center, College of Medicine - Administration (G. L. Trzebiatowski), 1 July 1988 through 30 June 1989. (Project 766254 - Continuation)

\$40,000.00 - State of Ohio, Rehabilitation Services Commission, Columbus, Ohio, Development of an "Air-Chair" for the Handicapped, Department of Electrical Engineering (H. R. Weed), 1 January 1989 through 31 December 1989. (Project 767277 New)

\$20,514.00 - 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 January 1989 through 30 June 1989. (Project 767301 - New)

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)

\$36,883.00 and Equipment - Apple Computer, Inc., Cupertino, California, The Engagement of Thinking Processes: A Three-Year Study of Selected Apple Classrooms of Tomorrow Students, Department of Educational Theory and Practice (R. J. Tierney), 1 January 1989 through 31 December 1989. (Project 766687 - Continuation) (Approximate Dollar Value of Equipment - \$3,135)

\$30,916.00 - Alcoa Defense Systems, Inc., San Diego, California, Advanced Antennas for Future Air Vehicles, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 October 1988 through 28 February 1989. (Project 766329 - 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)

\$23,428.00 and Equipment - Apple Computer, Inc., Cupertino, California, An Exploration of Hypertext upon the Thought Processes and Learning of Apple Classrooms of Tomorrow Students, Department of Education Theory and Practice (R. J. Tierney), 1 January 1989 through 31 December 1989. (Project 767318 - New) (Approximate Dollar Value of Equipment \$10,585)

April 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)

\$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 - Chemol, 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. Soloway), 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

\$36,300.00 - Virginia Power, Glen Allen, Virginia, Duke Power Company, Huntersville, North Carolina, and Southern California Edison Company, San Clemente, California, 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)

\$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 Seborrhic 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 767299 - New)

\$10,000.00 - Lake Erie Marine Trades Association, Cleveland, Ohio, The Economic Contribution of Marine Trades in Ohio, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (L. J. Hushak), 1 January 1989 through 31 August 1989. (Project 767306 - 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)

\$7,500.00 - American Trucking Association, Alexandria, Virginia, Feasibility Survey of the CFTD and TS Algorithms Applications in Conspicuity Problems of Truck Design, Department of Industrial Design (A. A. Bruckner), 19 December 1988 through 31 March 1989. (Project 767210 - New)

\$6,500.00 - Oklahoma Department of Education, Stillwater, Oklahoma and University of West Florida, Tallahassee, Florida, National Entrepreneurship Education Consortium, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766880 - Continuation)

\$2,500.00 - Oklahoma Department of Education, Stillwater, Oklahoma, National Consortium of State Career Guidance Supervisors, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766838 - Continuation)

\$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)

\$1,000.00 - American Astronomical Society, Washington, D.C., International Active Galactic Nuclei (AGN) Watch: Multi-Wavelength Monitoring of the Variable Seyfert Galaxy NGC 5548,

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)

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. (529200)

\$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).

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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.

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)

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.

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)

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,

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

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

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.

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

THE OHIO STATE UNIVERSITY FOUNDATION (contd)

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.

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**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.)

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**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

Date Received:	November 17, 1988
No. of Bids:	6
Low Bid:	\$ 65,000.00
High Bid:	\$ 93,500.00
Estimate of Cost:	\$ 90,000.00
Awarded to:	Gutknecht Construction, Columbus, OH

Plumbing Contract

Date Received:	November 17, 1988
No. of Bids:	4
Low Bid:	\$ 36,220 (accepted substitutions to total \$37,590)
High Bid:	\$ 51,370.00
Estimate of Cost:	\$ 45,000.00
Awarded to:	C. W. Construction, Groveport, OH

HVAC Contract

Date Received:	November 17, 1988
No. of Bids:	3
Low Bid:	\$ 72,680.00*
High Bid:	\$103,400.00*
Estimate of Cost:	\$ 75,000.00*
Awarded to:	Project Systems Mechanical, Columbus, OH

Electric Contract

Date Received:	August 16, 1988
No. of Bids:	4

* Recommended alternates reflected in these figures.

**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.

**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:	\$391,111.00*
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

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

PRESSEY HALL REMODELING - PHASE I (contd)

General Contract (contd)

Low Bid:	\$ 567,680.00 ⁺
High Bid:	\$ 685,698.00 ⁺
Estimate of Cost:	\$ 540,620.00 ⁺
Awarded to:	CWC/ABC, A Joint Venture, Groveport, OH

Plumbing Contract

Date Received:	October 6, 1988
No. of Bids:	3
Low Bid:	\$ 34,875.00 ⁺
High Bid:	\$ 49,023.00
Estimate of Cost:	\$ 23,100.00
Awarded to:	Edmonds Mechanical Contractors, Dayton, OH

HVAC Contract

Date Received:	October 6, 1988
No. of Bids:	4
Low Bid:	\$ 204,198.00 ⁺
High Bid:	\$ 277,300.00
Estimate of Cost:	\$ 185,640.00
Awarded to:	Edmonds Mechanical Contractors, Dayton, OH

Electric Contract

Date Received:	October 6, 1988
No. of Bids:	4

*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

*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.

**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. 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

**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. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXV for maps of 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, and Northwest Utilities - Water Line - Phase II, Section I, page 1033.)

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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

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APPENDIX XXVIII

PERSPECTIVE ON LAND-GRANT UNIVERSITIES

(See page 822)

Perspective on Land-Grant Universities
Edward H. Jennings
March 31, 1989

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.

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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)



Office of the Treasurer

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**THE OHIO STATE UNIVERSITY
 ENDOWMENT SUMMARY
 March 17, 1989**

Endowment Composition

	<u>06-30-88</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>03-17-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
Equities:				
Chicago Corp.	\$ 38,004,379	18.55%	\$ 38,765,606	17.11%
Nicholas-Applegate	10,454,591	5.10	10,703,722	4.72
Siebel	34,428,707	16.81	36,651,511	16.17
Mutual Fund	17,462,592	8.53	18,695,032	8.25
OSU Managed	<u>33,282,386</u>	<u>16.25</u>	<u>52,221,925</u>	<u>23.05</u>
Total Equities	\$133,632,655	65.24%	\$157,037,796	69.30%
Fixed Income:				
Boatmen's Trust (1)	\$ 21,547,467	10.52%	\$ 21,303,410	9.40%
Cambridge	921,925	0.45	905,504	0.40
Duff & Phelps	9,983,561	4.87	9,592,937	4.23
STW Fixed Income	22,300,069	10.89	21,751,369	9.60
OSU - GNMA	9,954,372	4.86	9,516,802	4.20
OSU Managed	<u>6,502,840</u>	<u>3.17</u>	<u>6,503,698</u>	<u>2.87</u>
Total Fixed Income	\$ 71,210,234	34.76%	\$ 69,573,720	30.70%
Total Equities & Fixed Income	\$204,842,889	<u>100.00%</u>	\$226,611,516	<u>100.00%</u>
Real Estate	\$ 43,089,186		\$ 36,571,244 (2)	
Total Portfolio	<u>\$247,932,075</u>		<u>\$263,182,760</u>	

(1) Formerly Centerre Trust.

(2) Real Estate reported at most recent appraised value.

Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value March '88 to March '89</u>	<u>Total Estimated Return</u>
Equity:			
Common Stock (Chicago Corp.)	3.56% (1)	0.24%	3.80%
Common Stock (Nicholas-Applegate)	1.85 (2)	6.95	8.80
Common Stock (Siebel)	4.07 (3)	6.08	10.15
Mutual Fund	3.08	9.28	12.36
Common Stock (OSU Managed)	4.60 (4)	8.27	12.87
Standard & Poor's Index	3.82	7.96	11.78

Real Estate: 4.37% -0- (11) 4.37%

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)	9.93 (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.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>03-17-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-88)	\$247,932,075	Equities	\$106,387,718	40.43%
Principal Additions	11,066,535	Fixed Income	60,591,598	23.02
Principal Withdrawals	(126,410)	Real Estate	36,458,000	13.85
Change in Market Value	<u>4,310,560</u>	Cash	<u>59,745,444</u>	<u>22.70</u>
Current Market Value	<u>\$263,182,760</u>	Total Portfolio	<u>\$263,182,760</u>	<u>100.00%</u>

maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
No Activity			

Real Estate

<u>Sale</u>	<u>Total Investment</u>
No Activity	

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
5,500	Aon Co.p.	Chicago	29.1520	\$ 160,693.50	\$ 7,040.00
2,700	Brown-Forman Corp.	"	60.7890	164,305.80	4,536.00
5,700	Westvaco, Inc.	"	28.5000	162,820.50	5,244.00
1,900	Fluor Corp.	Nicholas- Applegate	24.2500	46,189.00	76.00
100	Student Loan Marketing Assn.	"	93.7500	9,375.00	36.00
8,400	Tandem Computers, Inc.	"	19.8106	166,912.82	0.00
1,900	U.S. Air Group, Inc.	"	39.3330	74,846.70	228.00
2,450	Preformed Line Products*	OSU	71.0000	173,950.00	0.00
250	Fidelity Magellan Fund*	"	52.1200	13,037.24	0.00
5,000	Morton Thiokol, Inc.	Siebel	42.8290	<u>214,495.00</u>	<u>4,200.00</u>
				<u>\$1,186,625.56</u>	<u>\$21,360.00</u>

* Gift.

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
2,600	Commerce Clearing House, Inc.	Chicago	52.0000	\$ 135,200.00	\$ (19,500.00)
4,500	General Public Utilities Corp.	"	37.0000	166,201.95	12,645.00
800	Kaman Corp.	"	12.7815	10,175.20	(1,778.50)
8,500	Lance, Inc.	"	18.9375	160,437.50	2,625.00
5,000	New England Business Service, Inc.	"	20.5625	102,500.00	(2,500.00)
500	Albertson's, Inc.	Nicholas- Applegate	41.8750	20,906.80	6,584.90
1,400	Andahl Corp.	"	19.0000	26,515.11	169.67
1,900	Consolidated Freight- ways, Inc.	"	29.7530	56,414.81	(4,147.11)
4,900	Consolidated Rail Corp.	"	35.2730	172,537.72	14,936.82
700	Inland Steel, Inc.	"	45.5000	31,806.93	5,354.93
2,400	Novell, Inc.	"	31.1456	74,749.40	8,595.71
20,000	Apple Computer, Inc.	Siebel	34.5625	<u>690,000.00</u>	<u>(122,352.50)</u>
				<u>\$1,647,445.42</u>	<u>\$ (99,366.08)</u>

The Ohio State University
Bonds/Notes

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
1,295,000	Northwestern Bell Telephone Corp. 8.125% 03/15/17	Boatmen's	9.7305	9.8692	83.5000	\$1,081,325.00
550,000	Southwestern Bell Telephone Corp. 8.250% 04/01/17	"	9.7721	9.8994	84.4240	464,332.00
1,000,000	U.S. Treasury Bond 8.875% 02/15/19	"	9.2508	9.2772	95.9375	959,375.00
925,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	9.0735	9.0877	97.8125	904,765.63
2,100,000	U.S. Treasury Note 9.250% 08/15/98	STW	9.3633	9.4451	98.7900	<u>2,074,590.00</u>
						<u>\$5,484,187.63</u>

The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
1,065,000	Co-operative Utility Cajun Electric Power Corp. 10.125% 03/15/19	Boatmen's	101.6550	\$1,082,625.75	\$ 17,625.75
500,000	Eastman Kodak 9.950% 07/01/18	"	98.1100	490,550.00	(9,450.00)
925,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	95.5781	884,097.66	(20,667.97)
1,750,000	U.S. Treasury Bond 10.375% 11/15/12	STW	108.1563	<u>1,892,734.38</u>	<u>(44,032.07)</u>
				<u>\$4,350,007.79</u>	<u>\$(56,524.29)</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
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 Kenny Road	10.47	1961	659,930	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	1968	170,000	570,000	06/87
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/87
Hangar at Don Scott Field (Loan)	.00	1973	33,998 (1)	33,998	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	79,246 (1)	79,246	N/A
House and .23 acres of land, 760 Beautyview Court	.00	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	1965	24,000	1,020,000	06/87
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/87
Undivided one-half interest in building and .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 Eiterman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,444,185</u>	<u>\$36,571,244</u>	

(1) Amount represents balance on loan made to Department of Aviation.

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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

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The Ohio State University Ohio Revised Code Compliance Letter	VII

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.

March 21, 1989

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.

March 21, 1989

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

The Board of Trustees
The Ohio State University

March 21, 1989

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

Exposure Draft, "Accounting and Financial Reporting for Risk Financing and Related Insurance Issues".

Research Report - Information Needs of College and University Financial Decision Makers.

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.

Board of Trustees
The Ohio State University


November 23, 1988

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

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

University Systems

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.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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

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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.

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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.

THE OHIO STATE UNIVERSITY

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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.

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Billings and Accounts Receivable System (BARS)

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.

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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.

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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.

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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.

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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.

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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.

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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.

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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).

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Purchasing and Accounts Payable

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.

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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.

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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.

THE OHIO STATE UNIVERSITY

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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.

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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.

THE OHIO STATE UNIVERSITY

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JUNE 30, 1988

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.

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Business Management

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.

THE OHIO STATE UNIVERSITY

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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.

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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.

THE OHIO STATE UNIVERSITY HOSPITALS

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- 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.

THE OHIO STATE UNIVERSITY HOSPITALS

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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).

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- 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.

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- 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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

*8. 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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

11. Data Processing Standards and Policies Manual

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

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.

Board of Directors
The Ohio State University
Development Fund

August 12, 1988

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.

Touche Ross & Co.

Certified Public Accountants

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

LETTER OF RECOMMENDATION

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.

Mr. Dale Ouzts
WOSU Stations

October 31, 1988

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

WOSU STATIONS

LETTER OF RECOMMENDATIONS

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.

PARMS & Co., Inc.

CERTIFIED PUBLIC ACCOUNTANTS 400 EAST TOWN STREET - SUITE 200 - COLUMBUS, OHIO 43215 (614) 224-3078

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 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 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.

Parsons & Co., Inc.

Sincerely,

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.

Honorable Thomas E. Ferguson
Auditor of State of Ohio and
The Board of Trustees
The Ohio State University

November 23, 1988

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.

Thomas R. R. R.

Certified Public Accountants

*1. Citation

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.

* - Indicates repeat of prior year citation.

*4. Citation

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.

* - Indicates repeat of prior year citation.

5. Citation

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.

*6. Citation

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.

*6. Citation - (Continued)

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.

Respondent: (5) Stephen J. Summerhill, Asst. Vice Provost, International Studies

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.

*7. 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.

* - Indicates repeat of prior year citation.

*8. Citation

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.

* - Indicates repeat of prior year citation.

*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.

Page 1018 is blank

APPENDIX XXXI

SUMMARY OF REPORT ON AFFIRMATIVE ACTION

Presented to the Academic Affairs Committee
(See page 831)

The Ohio State University
Board of Trustees Meeting
April 7, 1989

Summary of Report on Affirmative Action

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)

Board of Trustees
205 Bricker Hall
190 North Oval Mall
Columbus, Ohio 43201-1162

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,

A handwritten signature in black ink, appearing to be 'Fyl' followed by a stylized flourish.

APPENDIX XXXIII

THE OHIO STATE UNIVERSITY COLLEGE OF AGRICULTURE
INTERNATIONAL PROGRAMS UPDATE

Presented to the Agricultural Affairs Committee
(See page 861)

The Ohio State University
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.

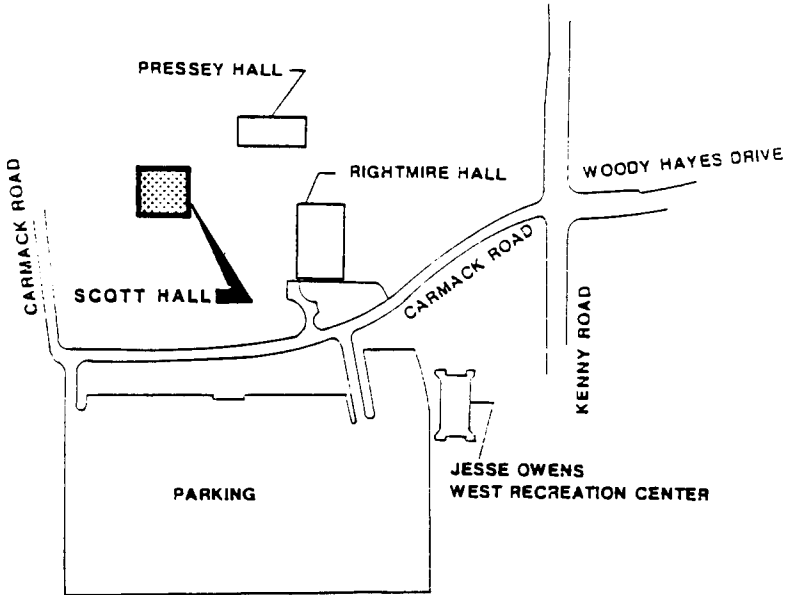
- (e) Program Support Grant - We receive an annual grant from AID of from \$125,000-150,000 to strengthen the ability of our faculty provide assistance to the above projects. This grant is part of a Joint Memorandum of Understanding between OSU and Fort Valley State College (a minority land grant institution) 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.
- (f) 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.
- (g) 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

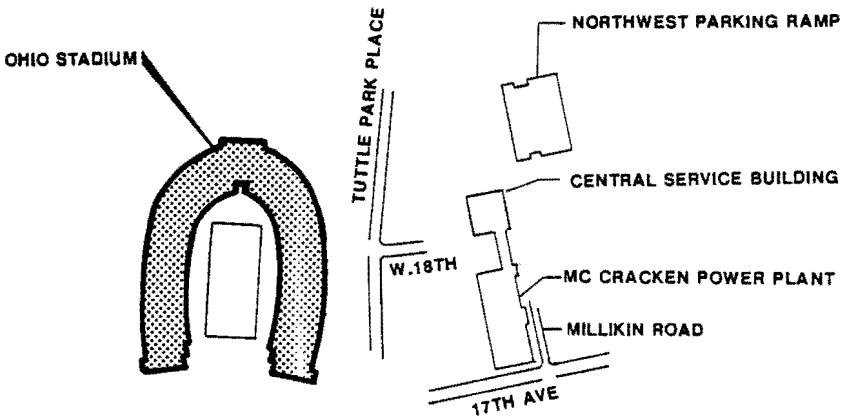
Adopted by the Board of Trustees April 7, 1989
(See page 902)

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

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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)

April 7, 1989

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.

	Low Bid	Estimate of Cost
General Contract Base Bid	\$825,000	\$828,994
Total General Contract	\$825,000	\$828,994
 TOTAL ALL CONTRACTS	 \$825,000	 \$828,994
TOTAL PROJECT COST	\$887,750	

Funding: University Athletic Department Funds

Plans and Specifications - 5/6/88
Report of Award of Contracts - 4/7/89

April 7, 1989

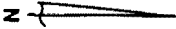
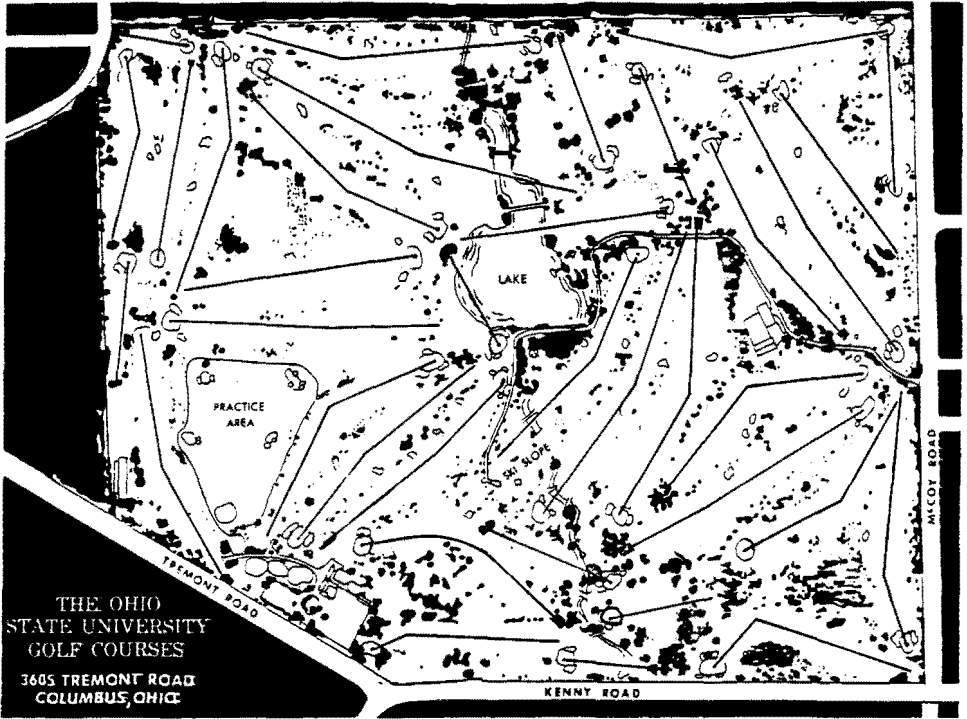
TABULATION OF BIDS
GOLF COURSE IRRIGATION SYSTEM

Bids Received - The Ohio State University
Date Received - December 21, 1988
Opened By - Tamara Bell
Tabulated By - Michael Whitehad

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>	<u>ALT G-1</u>
Estimate of Cost	\$828,994.00	-\$120,000.00
* Hilltop Glen Golf	\$825,000.00	+\$0.00
K & P Supply	889,500.00	-25,000.00
Ohio Irrigation	891,000.00	-30,000.00
<u>GENERAL CONTRACT (Cont)</u>	<u>ALT G-2</u>	<u>ALT G-3</u>
Estimate of Cost	+\$53,000.00	+\$6,000.00
* 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
<u>GENERAL CONTRACT (Cont)</u>	<u>ALT G-4</u>	<u>ALT G-5</u>
Estimate of Cost	+\$6,000.00	+\$500.00
* 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
<u>GENERAL CONTRACT (Cont)</u>	<u>ALT G-6</u>	
Estimate of Cost	+\$96,000.00	
* 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.

	Low Bid	Estimate of Cost
General Contract		
Base Bid	\$65,000	\$90,000
Total General Contract	\$65,000	\$90,000
Plumbing Contract		
Base Bid	\$36,220	\$45,000
Substitute - Air turret	+ 75	
Substitute - Gas turret	+ 75	
Substitute - D.I. ledge faucets	+ 720	
Substitute - Hub drain line	+ 500	
Total Plumbing Contract	\$37,590	\$45,000
HVAC Contract		
Base Bid	\$68,780	\$75,000
Alt. H-1 (Extend 3/4" HPS line)	+ 3,900	\$2,500
Total HVAC Contract	\$72,680	\$77,500

April 7, 1989

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

BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS (Cont)

	Low Bid	Estimate of Cost
Electric Contract		
Base Bid	\$143,400	\$153,000
Alt. E-2 (Growth chamber alarm system)	+2,100	+3,500
Alt. E-3 (Fire alarm system)	+1,900	+1,600
Alt. E-4 (Autoclave wiring and connections)	+380	+750
Alt. E-5 (Receptacles)	+840	+1,200
Total Electric Contract	\$148,620	\$160,050
TOTAL ALL CONTRACTS	\$323,890	\$370,050
TOTAL PROJECT COST	\$660,980	

Funding: University Funds

Plans and Specifications - 3/4/88
Report of Award of Contracts - 4/7/89

April 7, 1989

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

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>	
Estimate of Cost	\$90,000.00	
* Gutknecht Construction	\$65,000.00	
Ed Ross Construction	72,870.00	
J & M Bennett Co.	75,400.00	
C. W. Construction	87,900.00	
Waller & Lund	92,680.00	
Mid State Builders	93,500.00	
<u>PLUMBING CONTRACT</u>	<u>BASE BID</u>	
Estimate of Cost	\$45,000.00	
* C. W. Construction	\$36,220.00	
Farber Corp.	44,500.00	
Diewald & Pope	46,083.00	
Marco Plumbing	51,370.00	
<u>HVAC CONTRACT</u>	<u>BASE BID</u>	<u>ALT H-1</u>
Estimate of Cost	\$75,000.00	+ \$2,500.00
* Project Systems Mechanical	\$68,780.00	\$3,900.00
C. R. Legner	84,250.00	2,800.00
Farber Corp.	99,800.00	4,100.00
<u>ELECTRIC CONTRACT</u>	<u>BASE BID</u>	<u>ALT E-2</u>
Estimate of Cost	\$153,000.00	+ \$3,500.00
* Jess Howard Electric	\$143,400.00	+ \$2,100.00
Demos Electric	152,000.00	+ 2,239.00
Buckeye Electric	166,000.00	+ 2,197.00
Electric Power	203,900.00	+ 3,330.00
<u>ELECTRIC CONTRACT (Cont)</u>	<u>ALT E-3</u>	<u>ALT E-4</u>
Estimate of Cost	+ \$1,600.00	+ \$750.00
* Jess Howard Electric	+ \$1,900.00	+ \$380.00
Demos Electric	+ 1,900.00	+ 405.00
Buckeye Electric	+ 1,786.00	+ 334.00
Electric Power	+ 2,730.00	+ 610.00

April 7, 1989

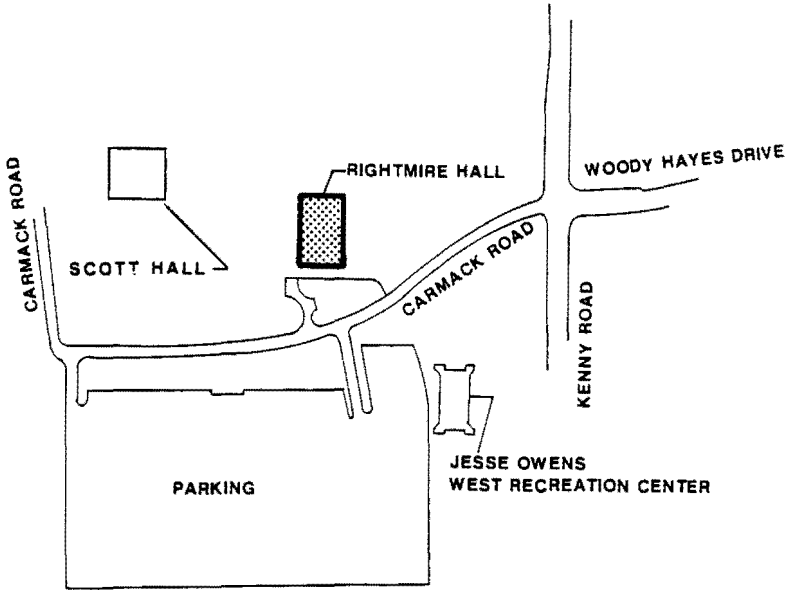
TABULATION OF BIDS (Cont)

BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS (Cont)

<u>ELECTRIC CONTRACT (Cont)</u>	<u>ALT E-5</u>	<u>ALT E-6</u>
Estimate of Cost	+\$1,200.00	+\$10,000.00
* Jess Howard Electric	+\$840.00	+\$7,934.00
Demos Electric	+1,980.00	+9,000.00
Buckeye Electric	+1,067.00	+11,500.00
Electric Power	+2,930.00	+9,100.00

* Contracts awarded to these bidders including Alternates H-1, E-2, E-3, E-4, and E-5.

BIOTECHNOLOGY CENTER RIGHTMIRE HALL GROWTH CHAMBERS



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.

	Low Bid	Estimate of Cost
General Contract		
Base Bid	\$226,675.98	\$289,313.00
Alt. G-1 (Additional 1/2" bituminous surface)	+23,088.80	+32,984.00
Alt. G-3 (Berming)	+4,443.75	+7,821.00
Alt. G-4 (Seeding)	+1,929.60	+1,920.00
Alt. G-5 (Painting)	+3,257.10	+10,340.00
Total General Contract	\$259,395.23	\$342,378.00
Electric Contract		
Base Bid	\$37,750.00	\$35,322.00
Alt. E-1 (Guidance signs Runway 9R)	+3,080.00	+3,276.00
Alt. E-2 (Guidance signs Runway 9-L)	+1,800.00	+1,688.00
Alt. E-3 (Helicopter hold signs)	+7,120.00	+6,944.00
Total Electric Contract	\$49,750.00	\$47,230.00
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

April 7, 1989

TABULATION OF BIDS

UNIVERSITY AIRPORT RENOVATIONS 1988/1989

Bids Received - The Ohio State University
 Date Received - December 1, 1988
 Opened By - Tamara Bell
 Tabulated By - Lynn Brooks

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>	<u>ALT G-1</u>
Estimate of Cost	\$289,313.00	+ \$32,984.00
* Columbus Asphalt Paving	\$226,675.98	+ \$23,088.80
Decker Constr.	236,900.50	+ 26,174.40
Central Ohio Paving	241,032.60	+ 24,152.80
Miller Paving	241,435.73	+ 21,599.20
Strawser Paving	242,881.40	+ 27,132.00
Shelly & Sands	248,618.73	+ 28,153.44
Heffner Constr.	258,552.56	+ 29,260.00
S. E. Johnson	291,240.00	+ 36,974.00
<u>GENERAL CONTRACT (Cont)</u>	<u>ALT G-2</u>	<u>ALT G-3</u>
Estimate of Cost	+ \$17,841.00	+ \$7,821.00
* Columbus Asphalt Paving	+ \$13,729.66	+ \$4,443.75
Decker Constr.	+ 13,950.30	+ 4,266.00
Central Ohio Paving	+ 13,919.20	+ 7,821.00
Miller Paving	+ 14,420.50	+ 4,443.70
Strawser Paving	+ 14,007.60	+ 4,621.50
Shelly & Sands	+ 14,931.54	+ 4,514.85
Heffner Constr.	+ 15,003.50	+ 3,555.00
S. E. Johnson	+ 17,004.65	+ 3,555.00
<u>GENERAL CONTRACT (Cont)</u>	<u>ALT G-4</u>	<u>ALT G-5</u>
Estimate of Cost	+ \$1,920.00	+ \$10,340.00
* Columbus Asphalt Paving	+ \$1,929.60	+ 3,257.10
Decker Constr.	+ 2,048.00	+ 2,585.00
Central Ohio Paving	+ 1,920.00	+ 7,755.00
Miller Paving	+ 1,920.00	+ 2,585.00
Strawser Paving	+ 1,984.00	+ 2,378.20
Shelly & Sands	+ 2,460.16	+ 2,274.80
Heffner Constr.	+ 1,120.00	+ 2,326.50
S. E. Johnson	+ 1,244.16	+ 2,326.50
<u>ELECTRIC CONTRACT</u>	<u>BASE BID</u>	<u>ALT E-1</u>
Estimate of Cost	\$35,322.00	+ \$3,276.00
* Scioto Electric	\$37,750.00	+ \$3,080.00
Jess Howard Electric	46,799.84	+ 4,097.20

April 7, 1989

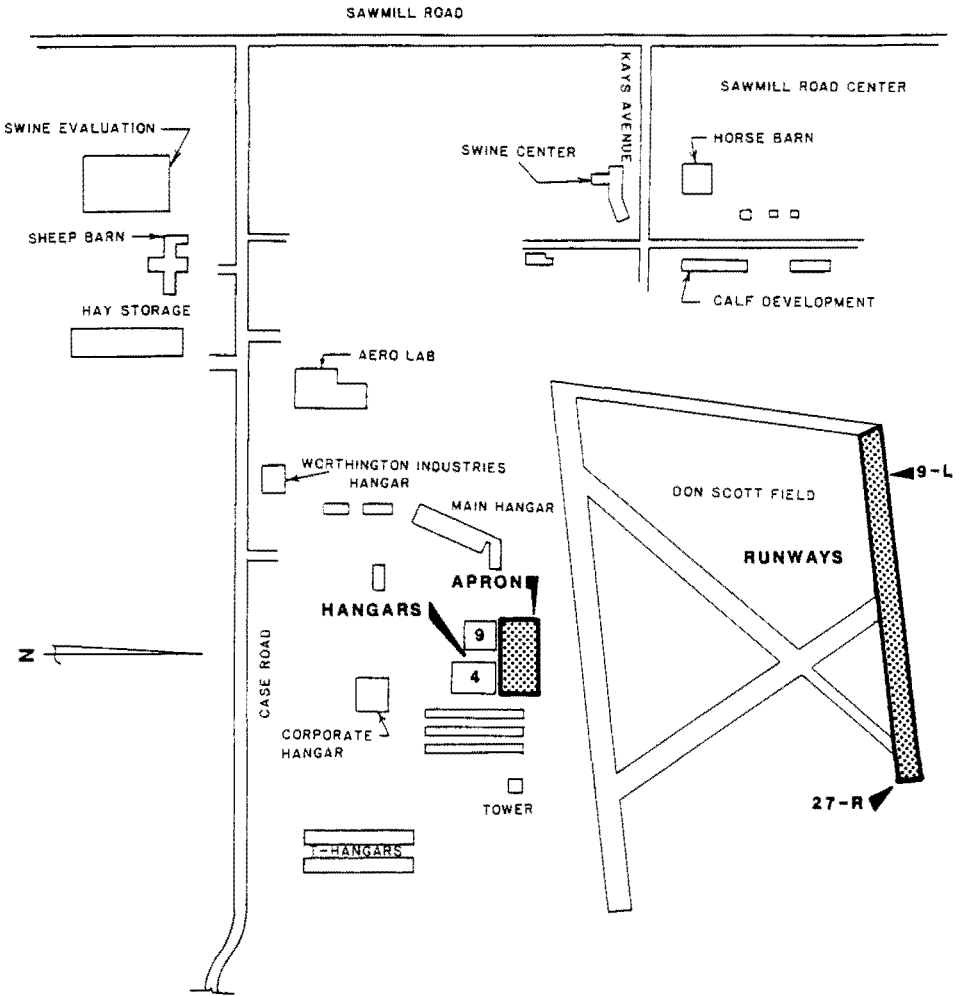
TABULATION OF BIDS (Cont)

UNIVERSITY AIRPORT RENOVATIONS 1988/1989 (Cont)

<u>ELECTRIC CONTRACT (Cont)</u>	<u>ALT E-2</u>	<u>ALT E-3</u>
Estimate of Cost	+\$1,688.00	+\$6,944.00
* Scioto Electric	+\$1,800.00	+\$7,120.00
Jess Howard Electric	+2,048.00	+7,688.72

* 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



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.

	Low Bid	Estimate of Cost
General Contract		
Base Bid	\$548,780.00	\$518,300.00
Alt. G-1 (Acoustical wall panels)	+ 18,900.00	+ 22,320.00
Total General Contract	\$567,680.00	\$540,620.00
Plumbing Contract		
Base Bid	\$34,875.00	\$23,100.00
Total Plumbing Contract	\$34,875.00	\$23,100.00
HVAC Contract		
Base Bid	\$204,198.00	\$185,640.00
Total HVAC Contract	\$204,198.00	\$185,640.00
Electric Contract		
Base Bid	\$194,500.00	\$177,360.00
Alt. E-1 (New Fluorescent fixtures)	+ 4,220.00	+ 11,020.00
Total Electric Contract	\$198,720.00	\$188,380.00
TOTAL ALL CONTRACTS	\$1,005,473.00	\$937,740.00
TOTAL PROJECT COST	\$1,230,212.00	

Funding: House Bill 870, House Bill 810 and University Funds

Plans and Specifications - 2/7/86
Report of Award of Contracts - 4/7/89

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

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>	<u>ALT G-1</u>
Estimate of Cost	\$518,300.00	+ \$22,320.00
* CWC/ABC, A Joint Venture	\$548,780.00	+ \$18,900.00
Concept Construction	618,000.00	+ 16,400.00
Williamson Builders	667,612.00	+ 18,086.00
<u>GENERAL CONTRACT (Cont)</u>	<u>ALT G-2</u>	
Estimate of Cost	+ \$5,110.00	
* CWC/ABC, A Joint Venture	+ \$4,600.00	
Concept Construction	+ 5,300.00	
Williamson Builders	+ 4,840.00	
<u>PLUMBING CONTRACT</u>	<u>BASE BID</u>	
Estimate of Cost	\$23,100.00	
* Edmonds Mechanical S.A. Comunale/D.E.	\$34,875.00	
Mech. (AJV)	47,554.00	
Mandeville/Marco (AJV)	49,023.00	
<u>HVAC CONTRACT</u>	<u>BASE BID</u>	
Estimate of Cost	\$185,640.00	
* Edmonds Mechanical Mandeville/Marco (AJV)	\$204,198.00	
S.A. Comunale/D.E. Mech (AJV)	233,390.00	
Wayne/J.A. Guy (AJV)	268,000.00	
	277,300.00	
<u>ELECTRIC CONTRACT</u>	<u>BASE BID</u>	<u>ALT E-1</u>
Estimate of Cost	\$177,360.00	+ \$11,020.00
* Smith & Bruce	\$194,500.00	+ \$4,220.00
Advantage Electric	224,910.00	+ 11,500.00
CWC/ABC (AJV)	240,000.00	+ 15,790.00
Avant/Romanoff (AJV)	286,100.00	+ 16,525.00

April 7, 1989

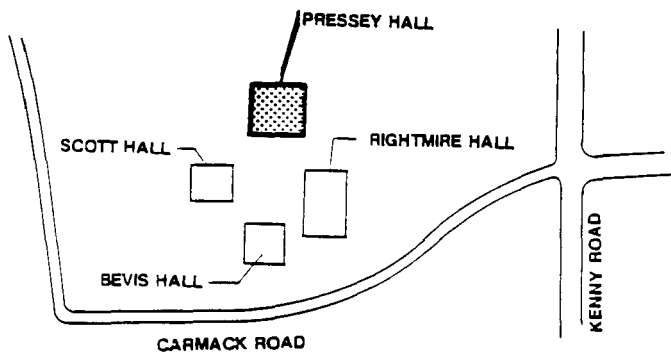
TABULATION OF BIDS (Cont)

PRESSEY HALL REMODELING PHASE I (Cont)

<u>ELECTRIC CONTRACT (Cont)</u>	<u>ALT E-2</u>
Estimate of Cost	+\$17,980.00
* 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.

	Low Bid	Estimate of Cost
General Contract		
Base Bid	\$712,730.00	\$989,704.00
Total General Contract	\$712,730.00	\$989,704.00
TOTAL ALL CONTRACTS	\$712,730.00	\$989,704.00
TOTAL PROJECT COST	\$829,425.00	

Funding: University Bonds and Senate Bill 386 Utilities and Renovation

Plans and Specifications -
Report of Award of Contracts - 4/7/89

April 7, 1989

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

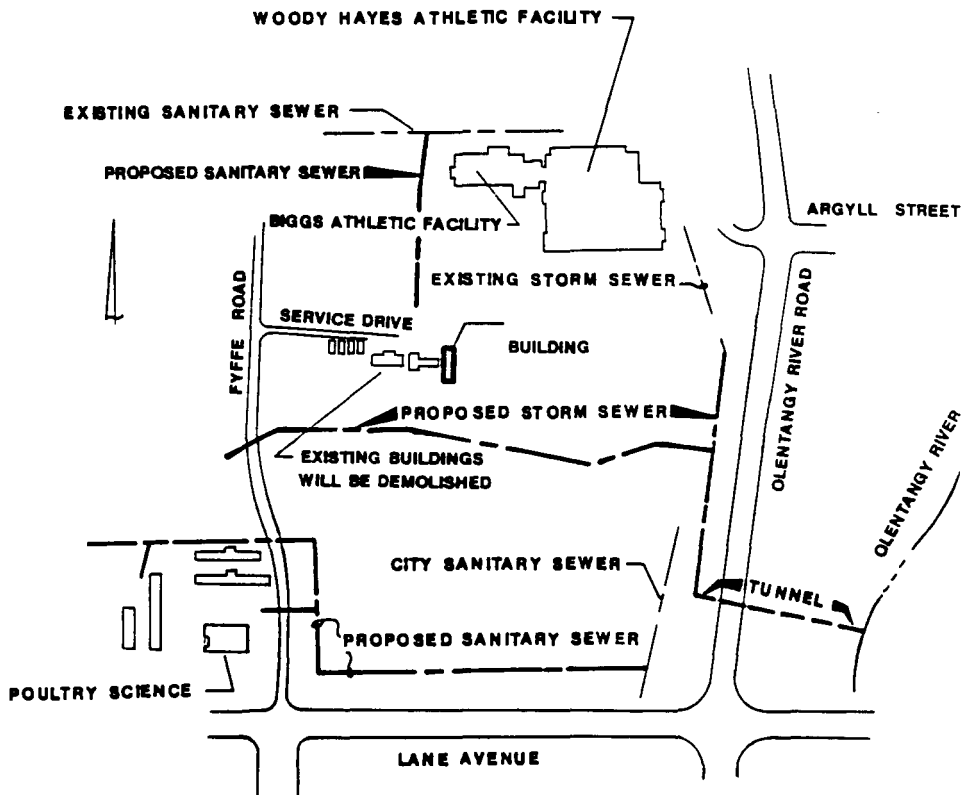
GENERAL CONTRACT

BASE BID

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>
Estimate of Cost	\$989,704.00
* The Righter Company	\$712,730.00
Gemini Constr.	768,723.00
Danbert Inc.	798,473.00
Savko & Sons	806,296.00
Concrete Constr.	808,486.00
George Igel Co.	819,000.00
Complete Constr.	857,176.00
Kenny Wilburn Constr.	862,317.08
Kokosing Constr.	868,703.00
Jack Conie & Sons	951,894.60
Walter Jones	953,953.00

* Contract awarded to this bidder.

NORTHWEST UTILITIES PHASE I STORM AND SANITARY SEWERS



OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 7, 1989

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.

	Low Bid	Estimate of Cost
General Contract Base Bid	\$117,500.00	\$127,550.00
Total General Contract	\$117,500.00	\$127,550.00
Electric Contract Base Bid	\$14,546.00	\$19,020.00
Total Electric Contract	\$14,546.00	\$19,020.00
TOTAL ALL CONTRACTS	\$132,046.00	\$146,570.00
TOTAL PROJECT COST	\$158,250.00	

Funding: University Funds

Plans and Specifications - 7/11/86
Report of Award of Contracts - 4/7/89

April 7, 1989

TABULATION OF BIDS

OARDC SUPPORT FACILITIES - BARN REPLACEMENT
THE OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER (Cont)

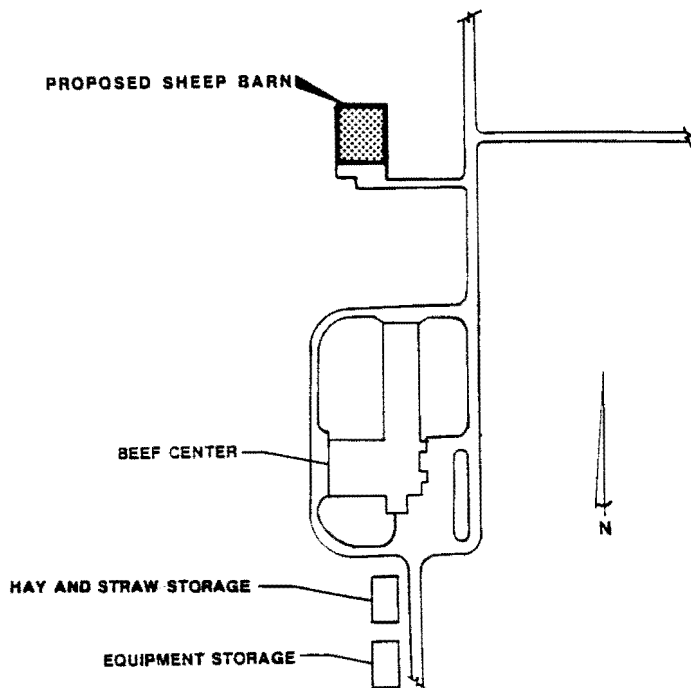
Bids Received - The Ohio State University
Date Received - March 2, 1989
Opened By: - Tamara Bell
Tabulated By: - John Frazier

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>
Estimate of Cost	\$127,500.00
* Finnagan Construction	\$117,500.00
Dawkins General Contr.	123,535.00
All Ohio Buildings	124,474.00
Stanley Miller	140,238.00

<u>ELECTRIC CONTRACT</u>	<u>BASE BID</u>
Estimate of Cost	\$19,020.00
* Wooster Electric	\$14,546.00
Buchman's Electric	15,300.00
Abbott Electric	15,375.00
Charnan Electric	15,820.00
Madison Electric	18,600.00
Power National Corp.	19,443.00
Stanley Miller	25,000.00

* Contracts awarded to these bidders.

OARDC SUPPORT FACILITIES BARN REPLACEMENT



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.

	Low Bid	Estimate of Cost
General Contract Base Bid	\$62,179.29	\$94,090.50
Total General Contract	\$62,179.29	\$94,090.50
TOTAL ALL CONTRACTS	\$62,179.29	\$94,090.50
TOTAL PROJECT COST	\$69,900.00	
Funding: University Bonds		

April 7, 1989

TABULATION OF BIDS

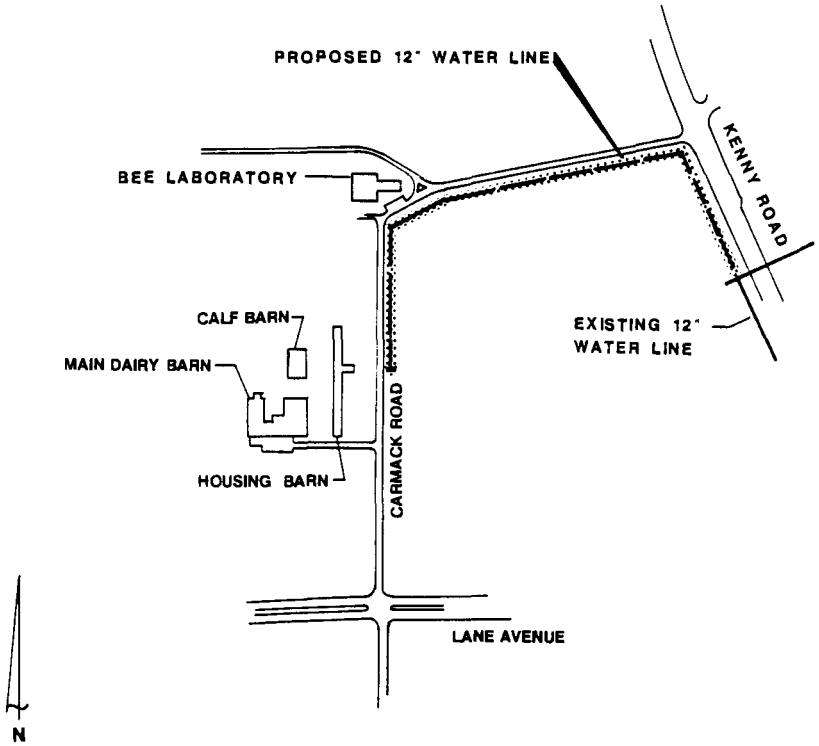
NORTHWEST UTILITES - WATER LINE - PHASE II, SECTION 1

Bids Received - The Ohio State University
Date Opened - January 19, 1989
Opened By - Tamara Bell
Tabulated By - Michael Whitehead

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>
Estimate of Cost	\$94,090.50
* N. M. Savko	\$62,179.29
Jack Conie & Sons	65,359.85
S. E. Johnson Cos.	68,280.35
Danbert Contractors	69,788.75
Gemini Construction	69,938.80
George Igel Co.	70,730.66
Walter Jones Constr.	72,421.75
The Righter Co.	72,567.75
S J & R Quality	75,526.00
Concrete Constr.	78,579.50
Tom Mayle & Sons	80,942.50
Woodward Excavation	84,359.89
Complete General Constr.	88,211.00
Smith & Bruce	91,229.39
Gaddis & Sons	107,651.00

* Contract awarded to this bidder.

NORTHWEST UTILITIES WATER LINE - PHASE II, SECTION 1



OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 7, 1989

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THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FIFTIETH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, May 4, 1989

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.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, Leslie H. Wexner, Sophia L. Paige, and Laurel A. Davis.

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**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.

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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

May 4, 1989 meeting, Board of Trustees

President Jennings: (contd)

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.

May 4, 1989 meeting, Board of Trustees

President Jennings: (contd)

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."

May 4, 1989 meeting, Board of Trustees

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."

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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 for 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.

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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

May 4, 1989 meeting, Board of Trustees

HOSPITALS BOARD COMMITTEE REPORT (contd)

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.

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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.

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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

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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.

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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.

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INVESTMENTS COMMITTEE REPORT (contd)

(See Appendix XXXVI for complete text of The Ohio State University Campaign, page 1145.)

(See Appendix XXXVII for complete text of The Ohio State University Endowment Summary, April 21, 1989, page 1149.)

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ACADEMIC AFFAIRS COMMITTEE REPORT

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.)

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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

RENAMING 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.

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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

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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).

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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.
- (8) Serve as secretary of the university faculty in accordance with rule 3335-5-21 of the Administrative Code. (B/T 3/4/83, B/T 5/5/88, B/T 5/4/89)

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.

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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.

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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

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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,

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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.

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POLICY ON PATENTS AND COPYRIGHTS (contd)

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

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.

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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.

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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

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POLICY ON PATENTS AND COPYRIGHTS (contd)

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.

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 VI(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.

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POLICY ON PATENTS AND COPYRIGHTS (contd)

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.

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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.

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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.

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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.

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May 4, 1989 meeting, Board of Trustees

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.

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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.

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May 4, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS

Resolution No. 89-103

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.

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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.

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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:

<u>Classification</u>	<u>Expiring Quarterly Rates 1988-89</u>	<u>Proposed Quarterly Rates 1989-90</u>	<u>Proposed Quarterly Rates 1990-91</u>
Student	\$ 72	\$ 89	\$ 98
Student & Spouse	221	216	239
Student, Spouse & Children	322	408	450
Student & Children	171	279	307

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STUDENT HEALTH INSURANCE (contd)

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.)

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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 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

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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, a opossum, 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 Tyrome 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

May 4, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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.

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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.)

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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 XXXXII for complete text of The Ohio State University 1988-89 Current Funds Budget - 3rd Quarter Report, page 1183, and Appendix XXXXIII 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.

May 4, 1989 meeting, Board of Trustees

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

SUMMARY FOR MARCH 1989

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	125	\$7,888,284.00
Engineering Experiment Station 44		\$ 557,700.00
Total	169	\$8,445,984.00
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)		\$ 77,875.06
The Wendell D. and Helen R. Postle Scholarship Fund (Scholarships - College of Dentistry)		\$ 57,810.73
Medical Director - Clinical Research Support Fund (Support of clinical research projects)		\$ 30,000.00
The Rho Pi Phi Scholarship Fund in Pharmacy (Scholarships)		\$ 20,000.00
The Thomas Stickley International Graduate Scholarship Fund (Scholarships)		\$ 15,935.00
The Kenneth W. Reisch Excellence in Teaching Fund (Sponsor a lecture or symposium - College of Agriculture)		\$ 15,914.00
Mary H. and J. Churchill Hodges Endowment Fund		
(Scholarships - residents of counties served by the Tri State Alumni Club)		\$ 15,229.00
The Dorothy Jones Williams Memorial Scholarship Fund (Scholarships - College of Business)		\$ 15,000.00
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. Zwillig), 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. Cassidy), 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 -- Trimetoquinol Analogs, College of Pharmacy (D. D. Miller and D. R. Feller), 1 April 1989 through 31 March 1990. (Project 761574 - 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)

\$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)

\$120,000.00 - Environmental Protection Agency, Washington, D.C., Biological Consequences of Global Atmospheric Hydrocarbons on Human Neonatal Fibroblasts: Molecular Models Applicable to the Analysis of Electronic and Steric Effects of Substituents on Structure-Toxicity Relationships, College of Pharmacy (D. T. Witiak), 22 February 1989 through 21 February 1991. (Project 767314 - New)

\$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)

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)

\$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)

\$110,190.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, Packet Radio Networks with Adaptive Arrays, ElectroScience Laboratory, Department of Electrical Engineering (R. T. Compton, Jr.) and Department of Electrical Engineering (R. L. Hamilton), 1 March 1989 through 28 February 1990. (Project 767335 - 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)

\$98,621.00 - National Science Foundation, Washington, D.C., Mesoscale Cyclone Dynamics Around Antarctica, Byrd Polar Research Center (D. H. Bromwich), 1 June 1989 through 31 May 1991. (Project 767340 - New)

\$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, Structure, 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)

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)

\$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)

\$63,328.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Fundamental Research on Erosion in Magnetoplasmadynamic Thrusters, Department of Mechanical Engineering (V. Subramaniam and J. W. Rich) 30 September 1989 through 29 September 1990. (Project 766307 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)

\$40,250.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Laser Diagnostic Studies of Plasma Thrusters, Department of Aeronautical and Astronautical Engineering (T. M. York), 1 May 1989 through 30 April 1990. (Project 767344 - 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)

\$30,301.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Identification of Airborne Radar Targets, ElectroScience Laboratory, Department of Electrical Engineering (E. K. Walton, R. L. Moses and F. D. Garber), 1 May 1989 through 31 October 1989. (Project 765216 - 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)

\$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, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Development and Plasticity of the Vertebrate Spinal Cord: Progress and Future Directions, Department of Anatomy (G. F. Martin, Jr.), 1 March 1989 through 28 February 1990. (Project 767345 - 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 Junctions, Department of Mechanical Engineering (B. J. Hamrock and K. Ishii), 1 October 1988 through 30 June 1989. (Project 767328 - New)

\$9,529.00 - 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)

\$8,000.00 - National Science Foundation, Washington, D.C., Studies of Petrified Paleozoic Fungi, Department of Botany (T. N. Taylor), 15 June 1989 through 31 January 1990. (Project 765204 - Continuation)

\$7,000.00 - Department of Agriculture, Forest Service, Burlington, Vermont, Quality Recreation in Developed Natural Areas: An Importance/Performance Analysis, Department of Natural Resources - OARDC and School of Natural Resources (J. E. Christensen), 15 June 1989 through 30 September 1991. (Project 767346 - New)

\$6,000.00 - 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.

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)

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)

\$34,000.00 - State of Ohio, Board of Regents, Columbus, Ohio, The Language of Soviet Media, Foreign Language Center (G. L. Ervin), 16 December 1988 through 30 September 1989. (Project 767356 - New)

\$25,000.00 - State of Ohio, Department of Health, Columbus, Ohio, Early Intervention Update Survey, Nisonger Center (E. King and S. R. Schroeder), 1 July 1988 through 30 September 1988. (Project 767019 - New)

\$21,000.00 - State of Ohio, Board of Regents, Columbus, Ohio, 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), 16 December 1988 through 30 September 1989. (Project 767316 - New)

\$18,991.00 - State of Ohio, Department of Education, Columbus, Ohio, 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), 1 January 1989 through 30 June 1989. (Project 767378 - Continuation)

\$17,875.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Geodetic Advisor for the State of Ohio, Center for Mapping (J. D. Bossler), 1 July 1988 through 30 June 1989. (Project 766336 - Continuation)

\$11,739.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Yellow Springs Urban/Rural Interface Project, School of Natural Resources (E. F. Epstein), 1 October 1988 through 30 September 1990. (Project 767374 - New)

\$7,407.00 - 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 - Continuation)

\$5,000.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, AIDS: The Artists' Response -- A National Conference, Wexner Center for the Visual Arts (R. Stearns), 3 December 1988 through 15 July 1989. (Project 767350 - New)

\$3,000.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, 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), 1 June 1989 through 1 June 1990. (Project 767338 - New)

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)

May 4, 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)

\$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)

May 4, 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)

\$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. Cassidy), 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)

\$25,981.00 - Butler County Children Services Board, Hamilton, Ohio, A Formative Evaluation of the Development of Living Skills Program, Cooperative Extension Field Operations (P. H. Simmons-Schear), 1 March 1989 through 30 June 1989. (Project 767380 - New)

\$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)

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)

\$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 July 1, 1987 through December 31, 1989. (312429, Ext. 2)

\$45,600.00 from Isotech, 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)

May 4, 1989 meeting, Board of Trustees

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

ENGINEERING EXPERIMENT STATION (contd)

Industry and Other Sponsored Research and Development (contd)

\$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.

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 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.

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**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

May 4, 1989 meeting, Board of Trustees

**EMPLOYMENT OF ARCHITECT/ENGINEER AND
REQUEST FOR CONSTRUCTION BIDS (contd)**

**EQUINE CENTER AND FOOD FACILITY FREEZER ADDITION -
STORES AND RECEIVING BUILDING (contd)**

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.

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**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,

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)

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

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)

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, Drees 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, walks, 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)

Estimated Construction Cost: \$ 45,000.00

Estimated Project Cost: \$ 53,000.00

MANSFIELD - ROADWAY AND PARKING LOT REPAIRS

This project will resurface the west entrance drive and parking lot.

Estimated Construction Cost: \$ 91,000.00

Estimated Project Cost: \$ 107,000.00

LIMA - ROOF AND MASONRY REPAIRS

This project will replace the roof, flashing, and deteriorated mortar joints to the J. McLean Reed Student Activities Building and Galvin Hall.

Estimated Construction Cost: \$ 155,000.00

Estimated Project Cost: \$ 170,000.00

LIMA - PARKING LOT LIGHTING UPGRADE

This project will retrofit 11 parking lot light fixtures on existing poles and rewire circuits that control these fixtures on three separate campus parking lots.

Estimated Construction Cost: \$ 43,000.00

Estimated Project Cost: \$ 51,600.00

NEWARK - GROUNDS IMPROVEMENTS

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.

Estimated Construction Cost: \$ 420,000.00

Estimated Project Cost: \$ 500,000.00

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)

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)

MCPHERSON 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.

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)

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

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**Report of Award of Contracts and
Establishment of Contingency Funds**

Background

(See Appendix XXXXVI 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
Amount:	\$4,915,000.00 *
Estimate:	\$6,769,109.00 *
Fire Protection Contract:	Franklin Fire Sprinkler Co., Columbus, Ohio
Amount:	\$171,436.00
Estimate:	\$173,670.00
Plumbing Contract:	J. A. Croson Co., Columbus, Ohio
Amount:	\$1,526,900.00 *+
Estimate:	\$1,177,904.00 *
HVAC Contract:	J. A. Croson Co., Columbus, Ohio
Amount:	\$3,310,900.00 *
Estimate:	\$4,140,565.00 *

+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)

Electric Contract:	Royal Electric Construction, Columbus, Ohio
Amount:	\$1,249,620.00 *
Estimate:	\$1,776,325.00 *
Finishes Contract:	Willima Cargile Contractor, Cincinnati, Ohio
Amount:	\$1,490,000.00 *
Estimate:	\$1,659,562.00 *
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:

General Contract:	Ed Ross Construction, Westerville, Ohio
Amount:	\$146,045.00 *
Estimate:	\$177,000.00 *
Plumbing Contract:	Marco Plumbing, Columbus, Ohio
Amount:	\$ 18,370.00
Estimate:	\$ 15,000.00
HVAC Contract:	J. A. Guy, Dublin, Ohio
Amount:	\$122,300.00
Estimate:	\$115,000.00

May 4, 1989 meeting, Board of Trustees

**Report of Award of Contracts and
Establishment of Contingency Funds (contd)**

Background (contd)

Postle Hall Oral Biology Laboratory (contd)

Electric Contract:	Frush & Homan, Columbus, Ohio
Amount:	\$ 36,701.00
Estimate:	\$ 37,000.00
Total All Contracts:	\$323,496.00
Contingency Allowance:	\$ 25,477.84 (7.9% of construction cost)
Total Project Cost:	\$409,000.00

St. John Arena - Roof Replacement

This project will replace the original, extremely deteriorated roof on St. John Arena with a new roofing system. The total project cost is \$824,950.00; funding is provided by the Department of Athletics. The estimated completion date is October 1989. The contract awarded is as follows:

General Contract:	Mid American Roof, Perrysburg, Ohio
Amount:	\$629,770.00
Estimate:	\$850,000.00
Total All Contracts:	\$629,770.00
Contingency Allowance:	\$ 50,411.00 (8% of construction cost)

**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.

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**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 XXXVII 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.

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May 4, 1989 meeting, Board of Trustees

**Purchase of Real Property
Cranston Center
1501 Neil 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 XXXXVIII 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.

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**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 Appedix XXXXVIII for map of Columbus Southern Power Company Easement Renewal, page 1233.)

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**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.)

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**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.)

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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. Notwithstanding 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.

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Mr. Stoffel: (contd)

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

May 4, 1989 meeting, Board of Trustees

Mr. Stoffel: (contd)

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 mistakenly 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 personal 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.

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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

	<u>*Campaign Expectancies</u>	<u>Current Year Campaign Receipts (Jul 88-Mar 89)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1988</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$64,471,979	\$10,506,043	\$38,283,424	\$113,261,446	\$122,500,000	92
Friends	32,648,785	5,144,016	28,643,850	66,463,651	70,000,000	95
**Corporations	13,806,954	13,682,929	101,125,935	128,615,818	122,500,000	105
Foundations	<u>3,071,734</u>	<u>3,900,281</u>	<u>19,935,229</u>	<u>26,907,244</u>	<u>35,000,000</u>	77
Totals	\$113,999,452	\$33,233,269	\$187,988,438	\$335,221,159	\$350,000,000	96

*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

	Donors				Dollars	
	July	through	March		July	through
	<u>1987-88</u>	<u>1988-89</u>	<u>% Change</u>	<u>1987-88</u>	<u>1988-89</u>	<u>% Change</u>
Alumni	39,525	36,484	(8)	\$7,372,265	\$10,506,043	43
Non Alumni	17,967	17,169	(4)	5,564,945	5,144,016	(8)
Corporations	1,687	1,823	8	6,370,378	9,683,934	52
Corporate Foundations	235	222	(6)	1,439,672	1,556,179	8
Private Foundations	128	136	6	7,680,563	3,900,281	(49)
Other	<u>1,002</u>	<u>977</u>	(2)	<u>1,970,642</u>	<u>2,442,816</u>	24
TOTAL	60,544	56,811	(6)	\$30,398,465	\$33,233,269	9

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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)



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**THE OHIO STATE UNIVERSITY
 ENDOWMENT SUMMARY
 April 21, 1989**

Endowment Composition

	<u>06-30-88</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>04-21-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
Equities:				
Chicago Corp.	\$ 38,004,379	18.55%	\$ 40,592,603	17.33%
Nicholas-Applegate	10,454,591	5.10	11,266,474	4.81
Siebel	34,428,707	16.81	38,260,246	16.33
Mutual Fund	17,462,592	8.53	19,678,036	8.40
OSU Managed	<u>33,282,386</u>	<u>16.25</u>	<u>53,533,900</u>	<u>22.86</u>
Total Equities	\$133,632,655	65.24%	\$163,331,259	69.73%
Fixed Income:				
Boatmen's Trust (1)	\$ 21,547,467	10.52%	\$ 21,655,681	9.25%
Cambridge	921,925	0.45	899,176	0.38
Duff & Phelps	9,983,561	4.87	9,872,939	4.22
STW Fixed Income	22,300,069	10.89	22,323,962	9.53
OSU - GNMA	9,954,372	4.86	9,655,027	4.12
OSU Managed	<u>6,502,840</u>	<u>3.17</u>	<u>6,498,010</u>	<u>2.77</u>
Total Fixed Income	\$ 71,210,234	34.76%	\$ 70,904,795	30.27%
Total Equities & Fixed Income	\$204,842,889	<u>100.00%</u>	\$234,236,054	<u>100.00%</u>
Real Estate	\$ 43,089,186		\$ 36,569,784 (2)	
Total Portfolio	<u>\$247,932,075</u>		<u>\$270,805,838</u>	

1) Formerly Centerre Trust.

(2) Real Estate reported at most recent appraised value.

Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value April '88 to April '89</u>	<u>Total Estimated Return</u>
Equity:			
Common Stock (Chicago Corp.)	3.61% (1)	9.37%	12.98%
Common Stock (Nicholas-Applegate)	1.82 (2)	17.79	19.61
Common Stock (Siebel)	4.24 (3)	15.47	19.71
Mutual Fund	3.03	17.79	20.82
Common Stock (OSU Managed)	4.79 (4)	14.87	19.66
Standard & Poor's Index	3.76	19.19	22.95
Real Estate:	4.37%	-0- (11)	4.37%
Fixed Income:			
Bonds (Boatmen's Trust, formerly Centerre Trust)	8.44% (5)	(3.54)%	4.90%
Bonds (Cambridge)	8.27 (6)	(3.14)	5.13
Bonds (Duff & Phelps)	8.85 (7)	(1.45)	7.40
Bonds (SIW Fixed Income)	9.27 (8)	(0.08)	9.19
Bonds (OSU - GNMA)	9.96 (9)	(3.01)	6.95
Bonds (OSU Managed)	8.00 (10)	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 SIW Fixed Income portfolio is made up of cash and cash equivalents which earn 9.1%.
- (9) 0.6% of OSU-GNMA 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.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>04-21-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-88)	\$247,932,075	Equities	\$109,090,546	40.29%
Principal Additions	11,694,162	Fixed Income	62,105,600	22.93
Principal Withdrawals	(126,410)	Real Estate	36,458,000	13.46
Change in Market Value	<u>11,306,011</u>	Cash	<u>63,151,692</u>	<u>23.32</u>
Current Market Value	<u>\$270,805,838</u>	Total Portfolio	<u>\$270,805,838</u>	<u>100.00%</u>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
500,000	U.S. Treasury Note 14.375% 04/15/89	Siebel	\$0.00

Real Estate

Sale

No Activity

Total Investment

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
5,200	McKesson Corp.	Chicago	30.7500	\$ 160,238.00	\$ 7,488.00
7,000	Autodesk, Inc.	Nicholas- Applegate	32.4152	226,906.25	0.00
4,300	Bausch & Lomb, Inc.	"	52.4722	225,888.30	4,988.00
8,200	Community Psychiatric Centers	"	26.4854	217,671.90	2,952.00
3,600	General Mills, Inc.	"	59.2707	213,590.40	6,768.00
4,000	Intel Corp.	"	28.8187	115,275.00	0.00
3,300	Merck & Company, Inc.	"	65.1370	215,150.10	5,412.00
7,500	Rubbermaid, Inc.	"	28.9134	217,300.60	3,300.00
16,700	Seagate Technology	"	13.8979	232,095.40	0.00
2,500	Tandem Computers, Inc.	"	18.6544	46,786.10	0.00
6,100	Telephone and Data Systems, Inc.	"	39.1250	238,662.50	1,586.00
5,221	Banc One Corp.*	OSU	22.8565	119,333.69	5,429.84
2,735	Van Kampen Merritt U.S. Gov't. Fund*	"	14.6200	39,985.75	0.00
5,100	Bancorp Hawaii, Inc.	Siebel	43.7500	<u>223,125.00</u>	<u>6,936.00</u>
				<u>\$2,492,008.99</u>	<u>\$44,859.84</u>

* Gift.

**The Ohio State University
Common & Preferred Stock**

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
7,800	Brunswick Corp.	Chicago	17.0000	\$ 132,127.58	\$(23,404.42)
5,832	Pall Corp.	"	28.2500	164,398.58	(13,878.69)
10,000	Black & Decker Corp.	Nicholas- Applegate	20.4120	203,513.03	(26,456.97)
12,500	Charming Shoppes, Inc.	"	14.3750	179,687.50	(32,812.50)
4,600	Consolidated Freight- ways, Inc.	"	29.3414	134,689.98	(11,933.60)
1,100	Consolidated Rail Corp.	"	33.8400	37,156.75	1,776.96
700	Eljer Industries, Inc.	"	27.2500	19,032.36	(2,078.31)
1,700	Household International, Inc.	"	62.9970	106,989.33	14,953.03
6,900	K Mart Corp.	"	38.1548	262,845.22	436.57
7,100	Ogden Corp.	"	27.1250	192,155.08	(23,682.95)
2,000	Salomon, Inc.	"	24.0020	47,882.39	893.93
700	Schwitzer, Inc.	"	14.7500	10,282.65	91.29
700	Scotsman Industries	"	12.8750	8,970.19	(857.19)
8,800	Stone Container Corp.	"	29.2688	257,028.90	(9,219.60)
3,500	Tyco Labs, Inc.	"	33.8750	118,348.54	34,588.29
3,300	Union Bank of San Francisco	"	24.8598	82,037.50	(7,062.50)
9,400	Varian Associates, Inc.	"	25.9558	243,412.35	(15,224.45)
1,160	Campbell Soup. Co.*	OSU	33.0000	37,974.22	256.72
2,450	Preformed Line Products*	"	73.0000	178,850.00	4,900.00
16,000	Hilton Hotels Corp.	Siebel	57.9130	925,617.11	212,897.11
8,300	Loews Corp.	"	91.6345	759,959.83	379,851.29
21,000	Springs Industries Cl. A	"	40.5292	849,615.31	125,115.31
40,000	VLSI Technology, Inc.	"	7.5000	<u>300,000.00</u>	<u>(292,500.00)</u>
				<u>\$5,252,574.40</u>	<u>\$316,649.32</u>

* Gift.

The Ohio State University
Bonds/Notes

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
575,000	Bear Stearns CMO 8.900% 06/01/17	Boatmen's	10.1896	10.2811	87.3437	\$ 502,226.56
600,000	Southwestern Bell Telephone 7.750% 09/01/09	"	9.6470	10.0296	80.3360	482,016.00
400,000	U.S. Treasury Bond 8.875% 08/15/17	"	9.1230	9.1430	97.2812	389,125.00
3,680,000	U.S. Treasury Bond (Stripped) 0.000% 05/15/04	"	0.0000	9.0680	26.2850	967,288.00
1,800,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	9.0187	9.0281	98.4062	1,771,312.50
6,800,000	U.S. Treasury Note 8.875% 11/15/98	STW	9.1299	9.3189	97.2081	<u>6,610,150.80</u>
						<u>\$10,722,118.86</u>

The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
550,000	Southwestern Bell Telephone 8.250% 04/01/17	Boatmen's	83.2370	\$ 457,803.50	\$ (6,528.50)
425,000	Community Program Loan Trust 4.500% 10/01/18	"	54.6250	232,156.25	1,263.42
100,000	Franklin Savings Assn. 9.500% 02/15/18	"	91.7840	91,784.00	(5,477.00)
100,000	Northwestern Bell Telephone 8.125% 03/15/17	"	82.4000	82,400.00	(1,100.00)
575,000	General Motors Corp. 8.125% 04/15/16	"	81.6570	469,527.75	(4,462.00)
3,100,000	U.S. Treasury Bond (Stripped) 0.000% 05/15/02	"	31.1990	967,169.00	73,594.00
900,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	97.2812	875,531.25	(10,406.25)
4,000	American Telephone & Telegraph* 7.000% 02/15/01	OSU	80.7500	3,322.56	0.00
6,800,000	U.S. Treasury Note 9.250% 08/15/98	SIW	99.5937	<u>6,772,375.00</u>	<u>(25,746.25)</u>
				<u>\$9,952,069.31</u>	<u>\$21,137.42</u>

* Gift.

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
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 Kenny Road	10.47	1961	659,930	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	1968	170,000	570,000	06/87
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/87
Hangar at Don Scott Field (Loan)	.00	1973	33,331 (1)	33,331	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	78,453 (1)	78,453	N/A
House and .23 acres of land, 760 Beautyview Court	.00	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	1965	24,000	1,020,000	06/87
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/87
Undivided one-half interest in building and .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 Eiterman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,442,725</u>	<u>\$36,569,784</u>	

(1) Amount represents balance on loan made to Department of Aviation.



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MEMORANDUM

Subject: Proxy Voting
Date: April 30, 1989
From: James L. Nichols, Treasurer *James L. Nichols*
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 Trustee;
- 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) Bemis 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

- 16) Consolidated Papers, Incorporated
- 17) Cooper Development Company
- 18) Cooper Industries, Incorporated
- 19) Crawford and Company
- 20) AT Cross Company
- 21) Cypress Semiconductor Corporation
- 22) Ethyl Corporation
- 23) Exxon Corporation
- 24) Federal National Mortgage Association
- 25) First Wachovia Corporation
- 26) Flight Safety International, Incorporated
- 27) FPL Group, Incorporated
- 28) Geico Corporation
- 29) General Electric Company
- 30) Georgia-Pacific Corporation
- 31) Great Lakes Chemical Corporation
- 32) Greyhound Corporation
- 33) Hilton Hotels Corporation
- 34) Holiday Corporation
- 35) Home Depot Corporation
- 36) Household International Incorporated
- 37) Hubbell, Incorporated
- 38) IBM Corporation
- 39) Inland Steel Industries Incorporated
- 40) K Mart Corporation
- 41) Lance, Incorporated
- 42) Lawson Products, Incorporated
- 43) Lin Broadcasting Corporation
- 44) Lincoln National Corporation
- 45) Lockheed Corporation
- 46) Loews Corporation
- 47) Longs Drug Store Corporation
- 48) Marriott Corporation
- 49) Martin Marietta Corporation
- 50) McGraw-Hill, Incorporated
- 51) MCI Communications Corporation
- 52) Millipore Corporation
- 53) National City Corporation
- 54) NED Bancorp, Incorporated
- 55) Nevada Power Company
- 56) Nordstrom, Incorporated
- 57) Nucor Corporation
- 58) Nynex Corporation
- 59) Olsten Corporation
- 60) Pacific Telesis Group
- 61) PepsiCo, Incorporated

- 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) Teleflex, Incorporated
- 84) Transco Energy Corporation
- 85) US Air Group Incorporated
- 86) UST 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. Koenigs knecht, Dean of the Graduate School - May 4, 1989

Dean Koenigs knecht 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 Koenigs knecht 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.

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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

<u>Staffing:</u>	8	Professional Staff-Columbus
	3	Professional Staff-Regional Campuses & ATI
	3	Support Staff
	3	Graduate Research Associates
	13	Student Employees
	148	Volunteers
<u>Professional Staff FTE:</u>	7.1	Columbus Campus
	2.0	Regional Campuses & ATI
	9.1	Total FTE
<u>Annual Budget:</u>	\$348,420	Columbus Campus
	47,310	Regional Campuses & ATI
	\$395,730	Total Budget *
<u>Clients Assisted:</u>	499	Learning Disabled Students
	211	Mobility Impaired Students
	66	Visually Impaired Students
	28	Hearing Impaired Students
	153	Other Disabled Students
	957	Total Number of Disabled Students
	468	Temporarily Impaired Students
	157	Disabled Faculty and Staff

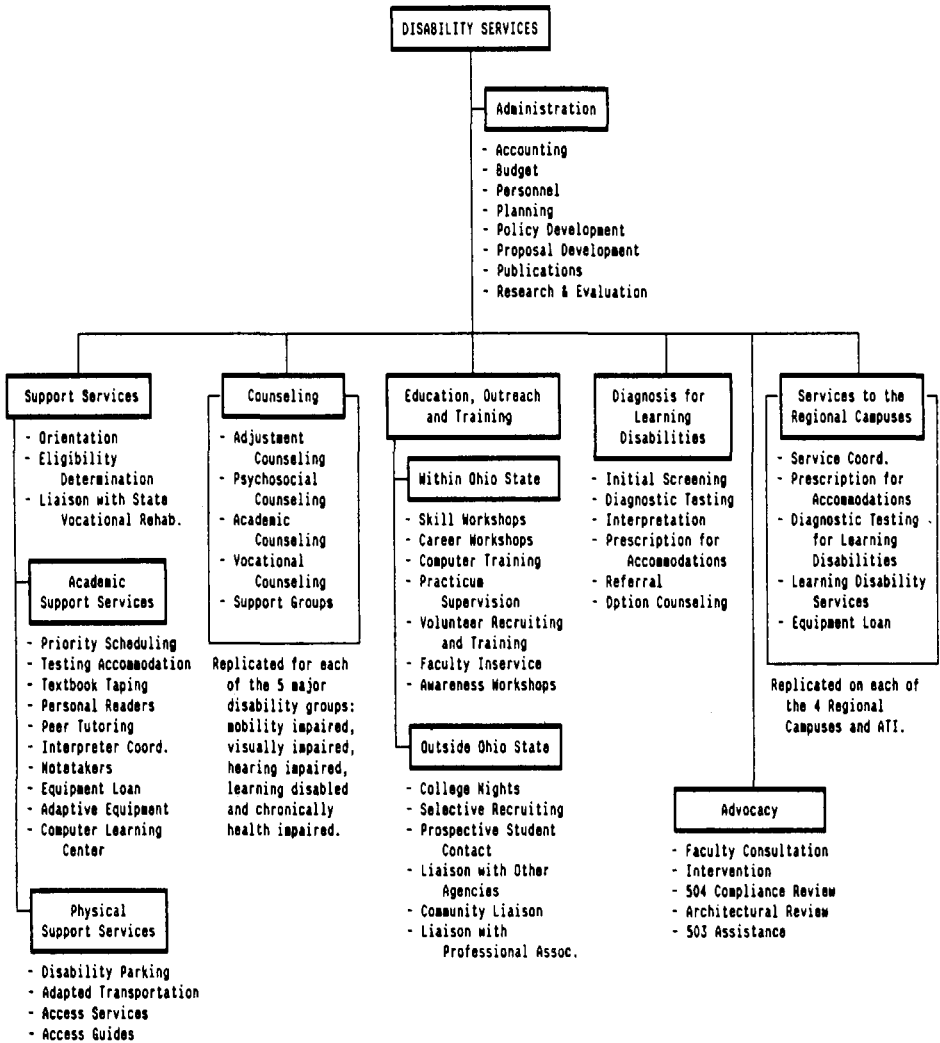
Statistics for '88-'89 **

5,002	Hours of Academic Testing Accommodations
625	Final Exams Proctored
317	Exams Taken Using the Closed Circuit TV
678	Hours of Textbook Recording
554	Hours of Volunteer Testing Assistance
504	Hours of Tutoring Assistance
264	Students Given Diagnostic Tests for Learning Disabilities
22,702	Adapted Transportation Passenger Trips
205	Disability Parking Permits Issued
811	Hours of Computer Instruction
173	Hours of Interpreter Usage

* Does not include benefits.

** From Spring '88 through Winter '89.

FUNCTIONAL ORGANIZATION CHART OF THE OFFICE FOR DISABILITY SERVICES



APPENDIX XXXXI

ORGANIZATIONAL REVIEW TEAM AND
THE ORGANIZATIONAL REVIEW RECOMMENDATIONS

Presented to the Agricultural Affairs Committee
(See page 1096)



Ohio Cooperative Extension Service

Administration
2120 Fyffe Road
Columbus, OH 43210-1010
Phone 614-292-6181

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.

3. Development and Coordination of Issue Programming.

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.

4. Structure and Organization for Support Units for the Ohio Cooperative Extension Service.

- 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.

ORGANIZATIONAL REVIEW RECOMMENDATIONS

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

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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)

THE OHIO STATE UNIVERSITY
 1988-89 CURRENT FUNDS BUDGET
 3RD QUARTER REPORT

Summary of Proposed Resources
 (In Thousands of Dollars)

	Budgeted 1988-89	Estimated 1988-89	\$ Increase	% Increase
Central Campus				
Unrestricted General Funds	\$420,590	\$420,950	\$360	.1%
Earnings Operations	322,400	323,590	1,190	.4%
Restricted Funds	192,820	198,320	5,500	2.9%
Total Central Campus	\$935,810	\$942,860	\$7,050	.8%
Regional Campuses	24,240	24,580	340	1.4%
OARDC	30,110	30,110	0	.0%
Grand Totals	\$990,160	\$997,550	\$7,390	.7%

THE OHIO STATE UNIVERSITY
 1988-89 CURRENT FUNDS BUDGET
 3RD QUARTER REPORT

Summary of Proposed Uses
 (In Thousands of Dollars)

	Budgeted 1988-89	Estimated 1988-89	\$ Increase	% Increase
Central Campus				
Unrestricted General Funds	\$420,590	\$420,950	\$360	.1%
Earnings Operations	322,400	323,580	1,180	.4%
Restricted Funds	192,820	198,320	5,500	2.9%
Total Central Campus	\$935,810	\$942,850	\$7,040	.8%
Regional Campuses	23,920	24,250	330	1.4%
OARDC	30,110	30,110	0	.0%
Grand Totals	\$989,840	\$997,210	\$7,370	.7%

THE OHIO STATE UNIVERSITY
 1988-89 CURRENT FUNDS BUDGET
 3RD QUARTER REPORT

All Funds Resources Summary
 (In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1988-89	Budgeted 1988-89
Central Campus					
State Appropriations	\$247.97	\$.00	\$35.61	\$283.58	\$284.72
Student Fees	140.14	5.41	.00	145.55	144.55
Other Resources					
Federal Grants and Contracts	16.67	.00	79.50	96.17	94.03
Ohio Grants and Contracts	.41	.00	13.65	14.06	12.05
Local Grants and Contracts	.70	.00	11.86	12.56	12.44
Private Gifts and Grants	3.73	.00	50.00	53.73	51.00
Endowment Income	1.40	.00	7.70	9.10	9.10
Department and University Services	.41	27.02	.00	27.43	27.43
Auxiliary Sales & Charges	.02	81.33	.00	81.35	82.09
Hospital Sales & Services	.00	201.93	.00	201.93	201.35
Other Sources	9.50	7.90	.00	17.40	17.05
Total Other Resources	\$32.84	\$318.18	\$162.71	\$513.73	\$506.54
Total Central Campus	\$420.95	\$323.59	\$198.32	\$942.86	\$935.81
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	2.08	3.49	3.24
Total Regional Campuses	\$21.36	\$1.12	\$2.10	\$24.58	\$24.24
OARDC					
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 OARDC	\$.00	\$1.60	\$28.51	\$30.11	\$30.11
Total University					
State Appropriations	259.88	.00	55.17	315.05	316.44
Student Fees	149.05	5.66	.00	154.71	153.37
Other Resources	33.38	320.65	173.76	527.79	520.35
Total University	\$442.31	\$326.31	\$228.93	\$997.55	\$990.16

THE OHIO STATE UNIVERSITY
 1988-89 CURRENT FUNDS BUDGET
 3RD QUARTER REPORT

All Funds Uses Summary
 (In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1988-89	Budgeted 1988-89
Central Campus					
Educational & General	\$420.01	\$32.43	\$184.13	\$636.57	\$630.71
Auxiliary Enterprises					
Residence & Dining Halls	.00	37.45	.00	37.45	36.42
Intercollegiate Athletics	.00	17.10	3.60	20.70	20.70
Other Auxiliaries	.94	29.90	.00	30.84	31.02
Total Auxiliaries	\$.94	\$84.45	\$3.60	\$88.99	\$88.14
University Hospitals	.00	206.70	10.59	217.29	216.96
Total Central Campus	\$420.95	\$323.58	\$198.32	\$942.85	\$935.81
Regional Campuses					
Agricultural Technical Institute	4.75	.78	.63	6.16	5.83
Lima Campus	4.48	.12	.43	5.03	5.03
Mansfield Campus	4.04	.08	.36	4.48	4.53
Marion Campus	3.60	.03	.42	4.05	3.88
Newark Campus	4.16	.12	.26	4.54	4.66
Total Regional Campuses	\$21.03	\$1.12	\$2.10	\$24.25	\$23.92
OARDC	.00	1.60	28.51	30.11	30.11
Total Uses	\$441.98	\$326.30	\$228.93	\$997.21	\$989.84

THE OHIO STATE UNIVERSITY
 1988-89 CURRENT FUNDS BUDGET
 3RD QUARTER REPORT

Distribution of 1988-89 Resources
 Central Campus, Regional Campuses & OARDC
 (In Thousands of Dollars)

	All Funds	Percent of Total	Unrestr. General(4)	Percent of Total
State Appropriations	\$315,050	31.6%	\$259,880	58.8%
Federal Grants & Contracts	102,820	10.3%	16,670	3.8%
Other Government Sources	26,620	2.7%	1,110	.3%
Student Fees				
Instructional (1)	149,050	14.9%	149,050	33.7%
Non-Credit Instruction	5,660	.6%	0	.0%
Hospitals Sales / Services	201,930	20.2%	0	.0%
Other Sales / Services (2)	108,780	10.9%	430	.1%
Private Gifts & Grants	53,730	5.4%	3,730	.8%
Endowment	9,100	.9%	1,400	.3%
Other Sources (3)	24,810	2.5%	10,040	2.3%
Total	\$997,550	100.0%	\$442,310	100.0%

- (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)

**WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS
JANUARY-MARCH, 1989**

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:

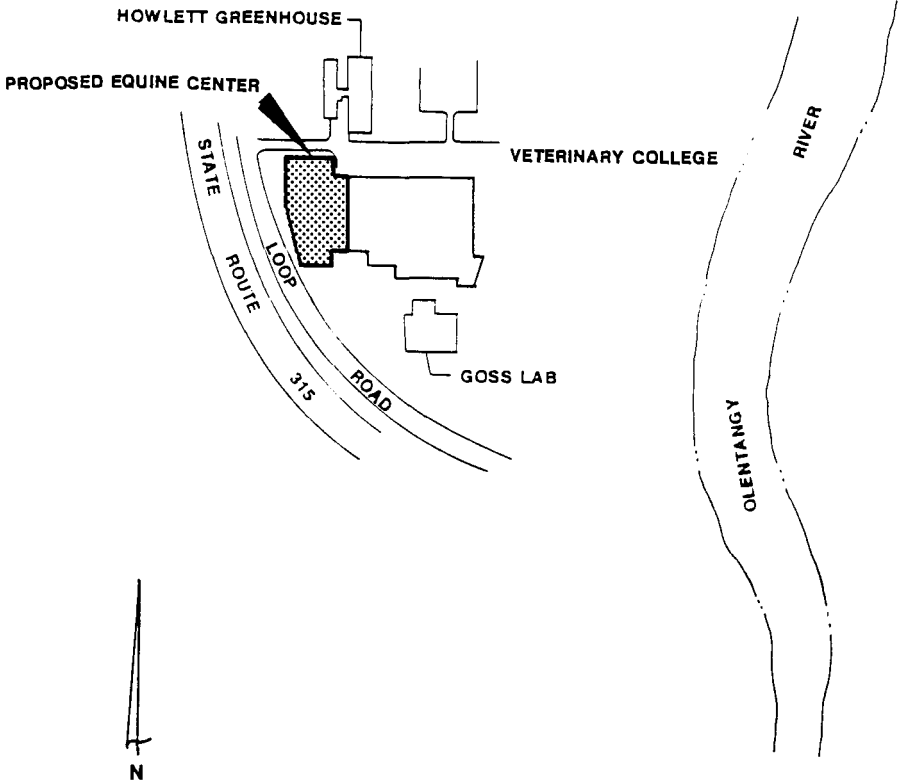
Radio & TV Programs	\$750,000	(1 waiver)
Hospital Equipment & Services	602,740	(4 waivers)
Emergency Helicopter Transport Services	515,000	(1 waiver)
Hospital Advertising	175,000	(1 waiver)
Professional Medical Services	122,000	(2 waivers)
Conference Facilities	160,000	(2 waivers)
Teaching & Research Equipment & Services	131,344	(8 waivers)
Historic Clothing	87,400	(2 waivers)
Fundraising Consulting & Services	50,955	(3 waivers)
Administrative Support Services & Equipment	46,930	(4 waivers)
Artists' Services	11,336	(1 waiver)

APPENDIX XXXXIV

EQUINE CENTER
FOOD FACILITY FREEZER ADDITION -
STORES AND RECEIVING BUILDING

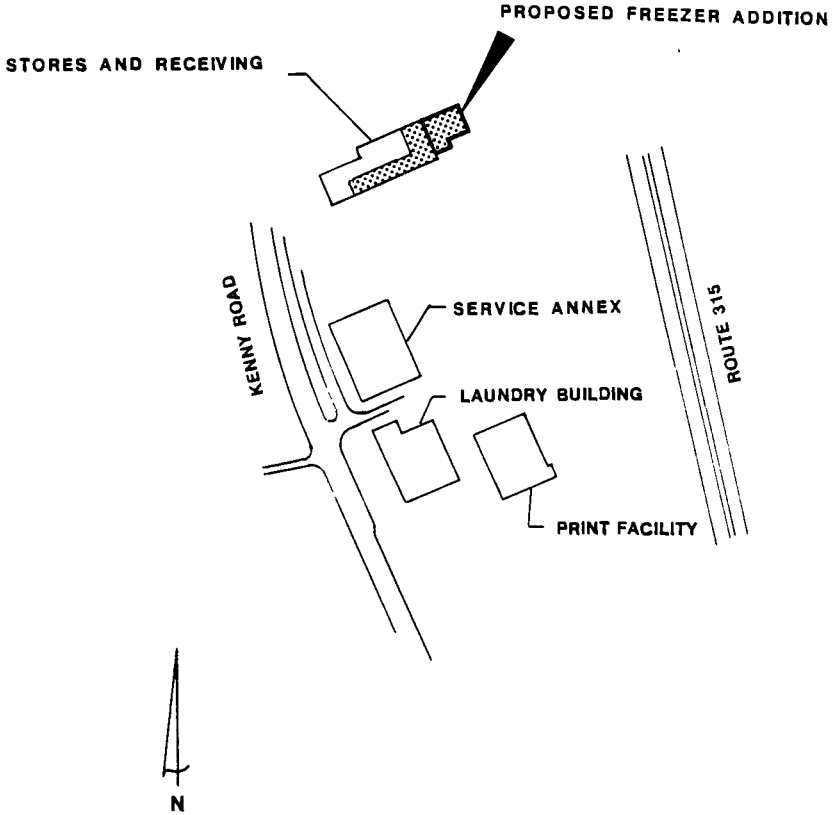
Adopted by the Board of Trustees May 4, 1989
(See page 1116)

EQUINE CENTER



OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

FOOD FACILITY FREEZER ADDITION STORES AND RECEIVING BUILDING



OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

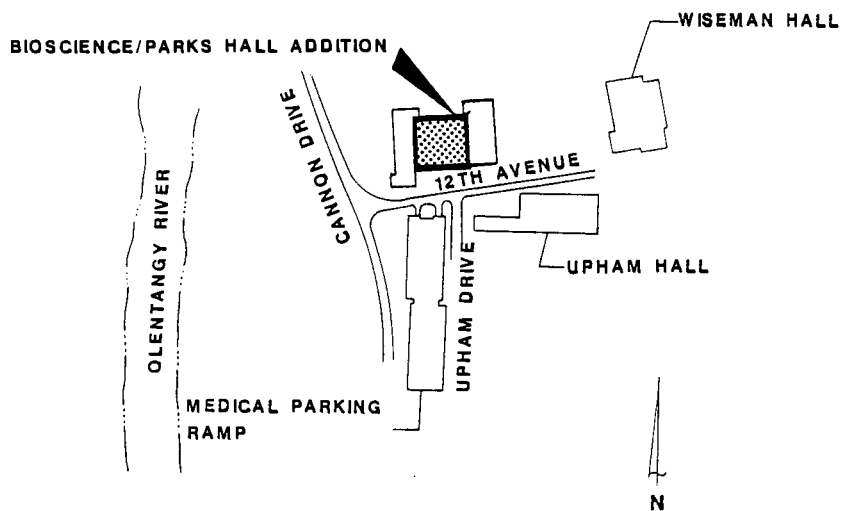
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APPENDIX XXXXV

PROJECTS FUNDED BY AMENDED HOUSE BILL 810

Adopted by the Board of Trustees May 4, 1989
(See page 1118)

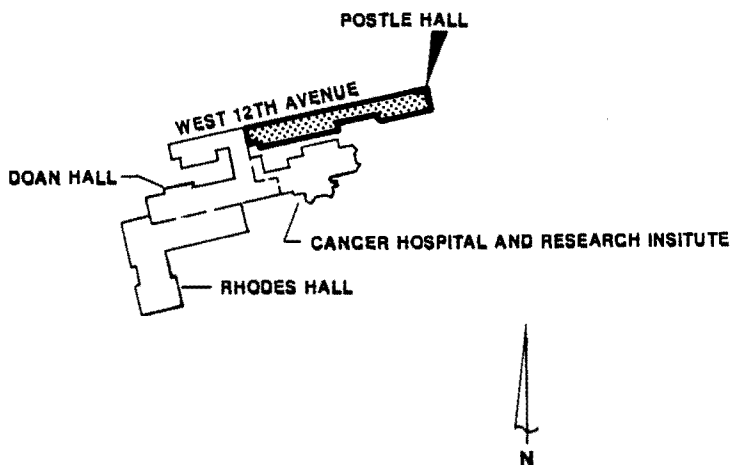
CAPITAL APPROPRIATION PROJECTS BIOSCIENCE/PARKS HALL ADDITION



OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

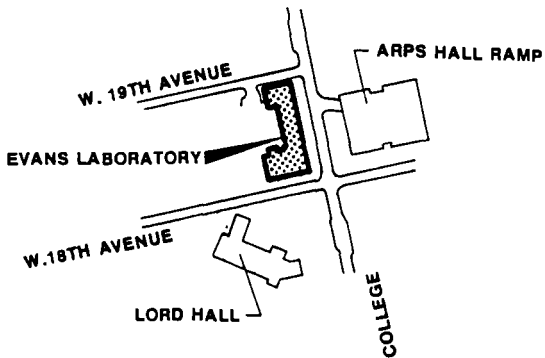
CAPITAL APPROPRIATION PROJECTS

DENTAL INSTRUCTIONAL LAB IMPROVEMENTS



OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

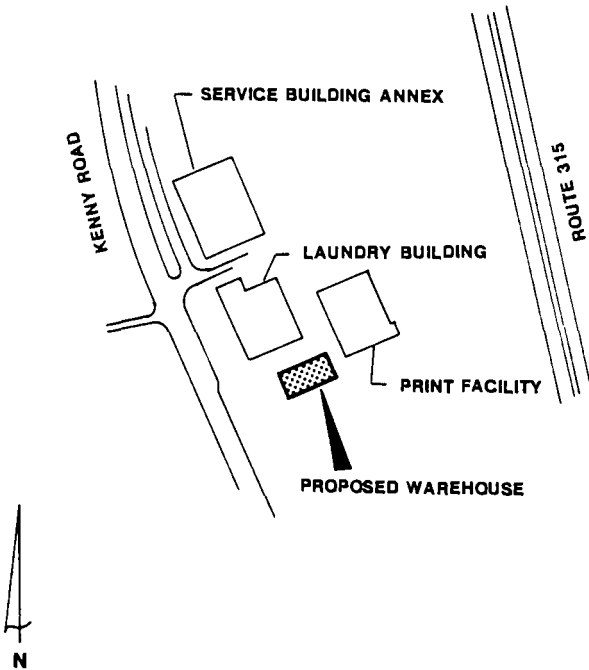
CAPITAL APPROPRIATION PROJECTS EVANS LABORATORY ADDITION



OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

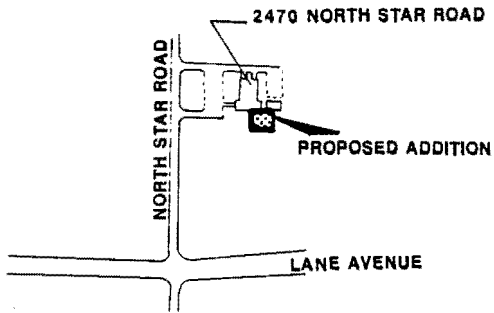
CAPITAL APPROPRIATION PROJECTS

LIBRARY BOOK WAREHOUSE



OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

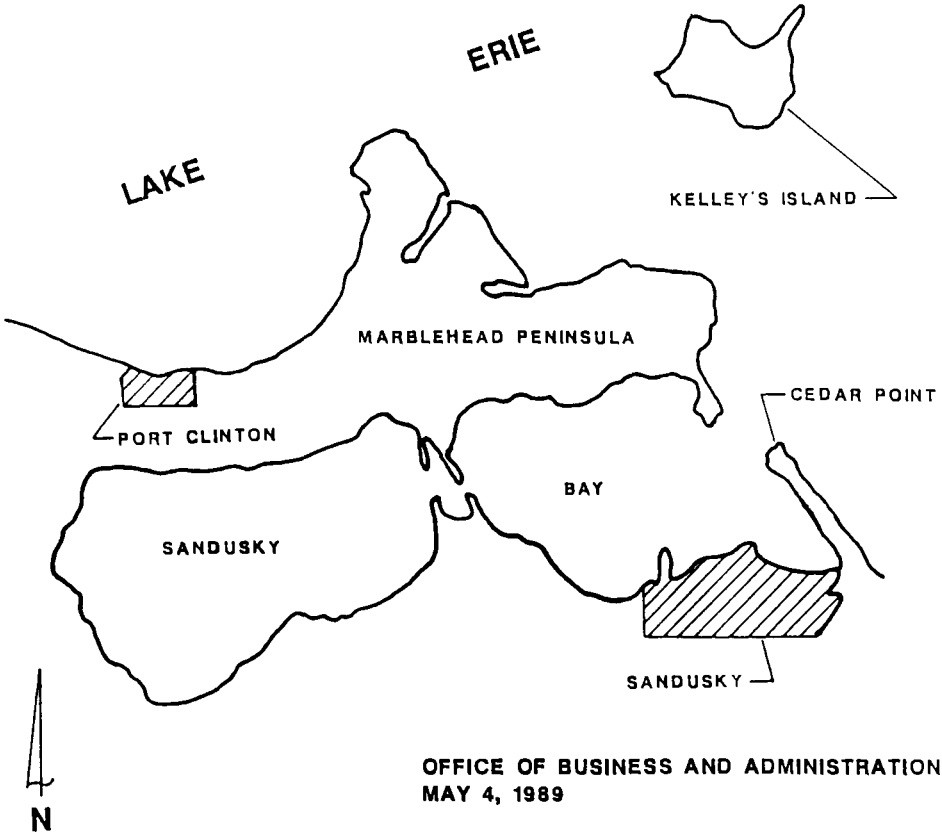
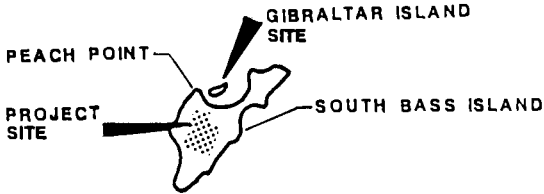
CAPITAL APPROPRIATION PROJECTS NORTH STAR BUILDING ADDITION



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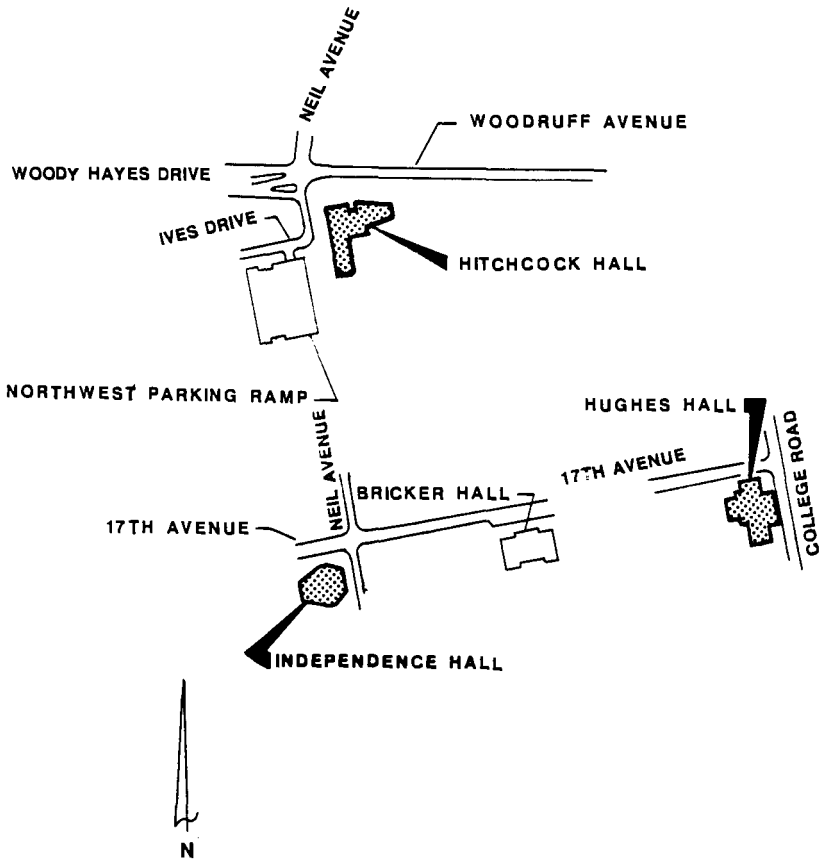
OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

CAPITAL APPROPRIATIONS PROJECTS SEAGRANTS SCHOOL PROJECTS SOUTH BASS AND GIBRALTAR ISLANDS



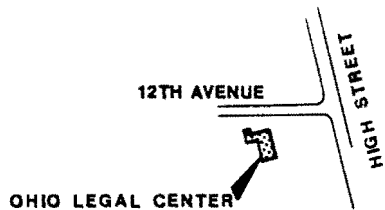
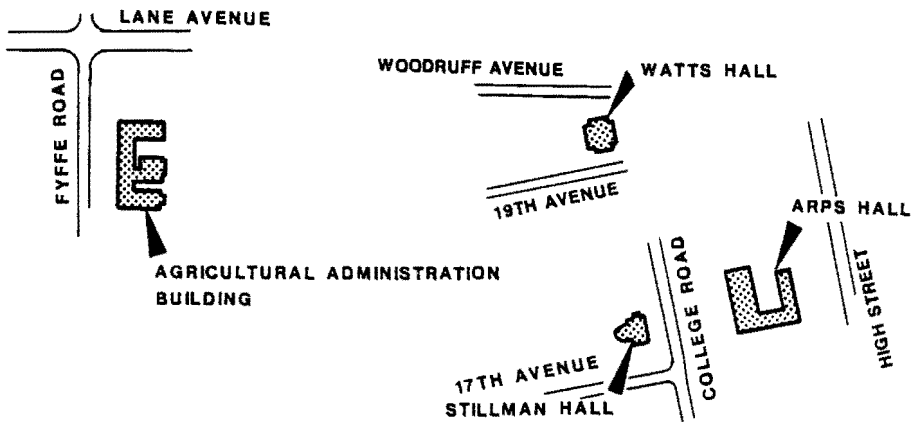
OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION CLASSROOM IMPROVEMENTS



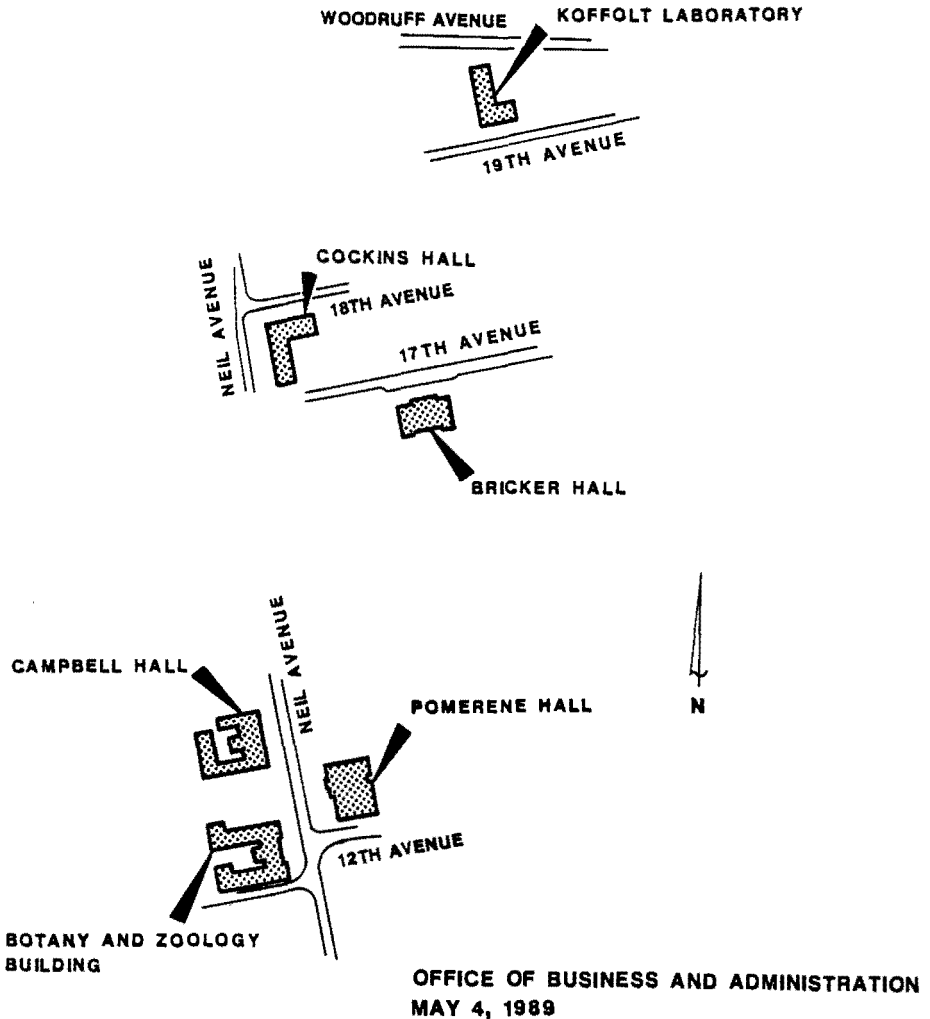
OFFICE OF BUSINESS AND ADMINISTRATIO
MAY 4, 1989

CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION ROOF REPLACEMENTS

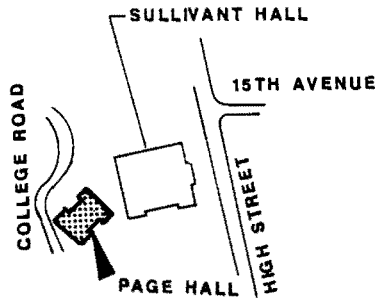
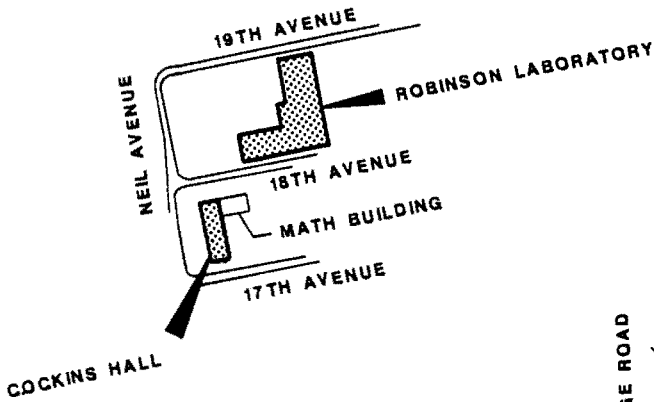


OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION MASONRY IMPROVEMENTS



CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION WINDOW REPLACEMENTS

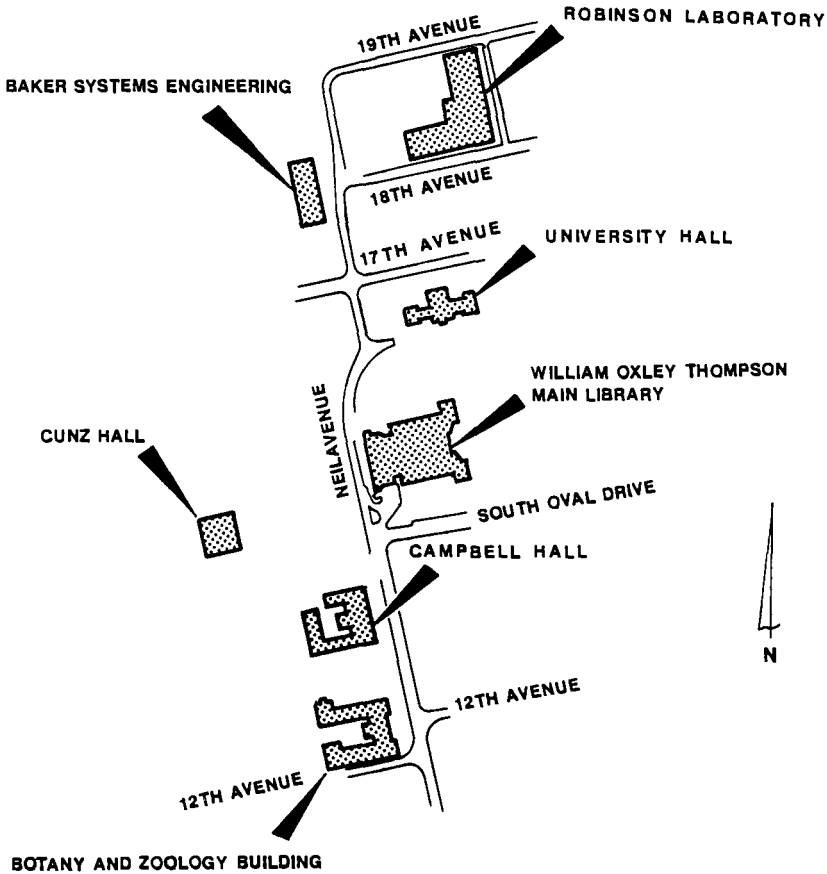


OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

CAPITAL APPROPRIATION PROJECTS

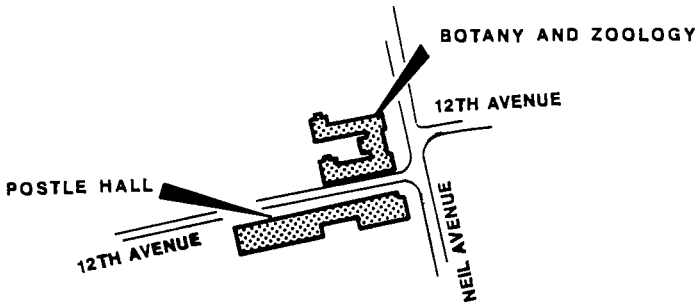
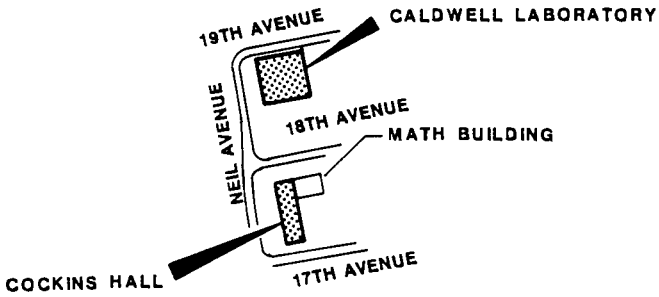
BASIC RENOVATION

CAMPUS ENERGY CONTROLS (HVAC SYSTEMS)



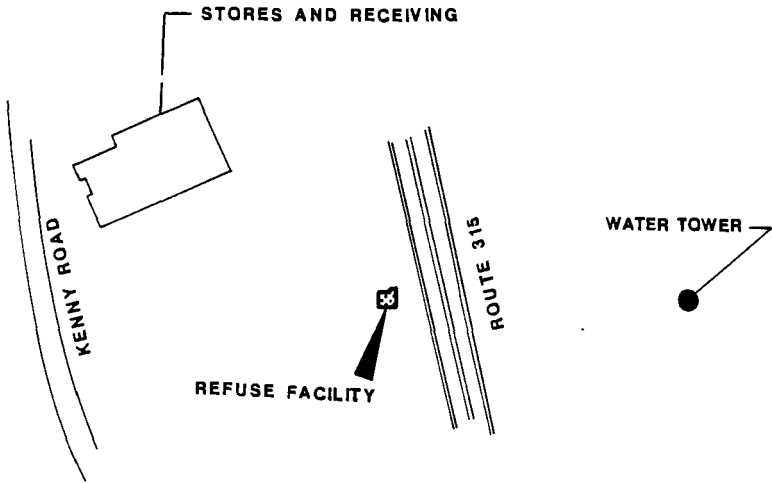
OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION ELEVATOR REPLACEMENTS



OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION REFUSE FACILITY UPGRADING

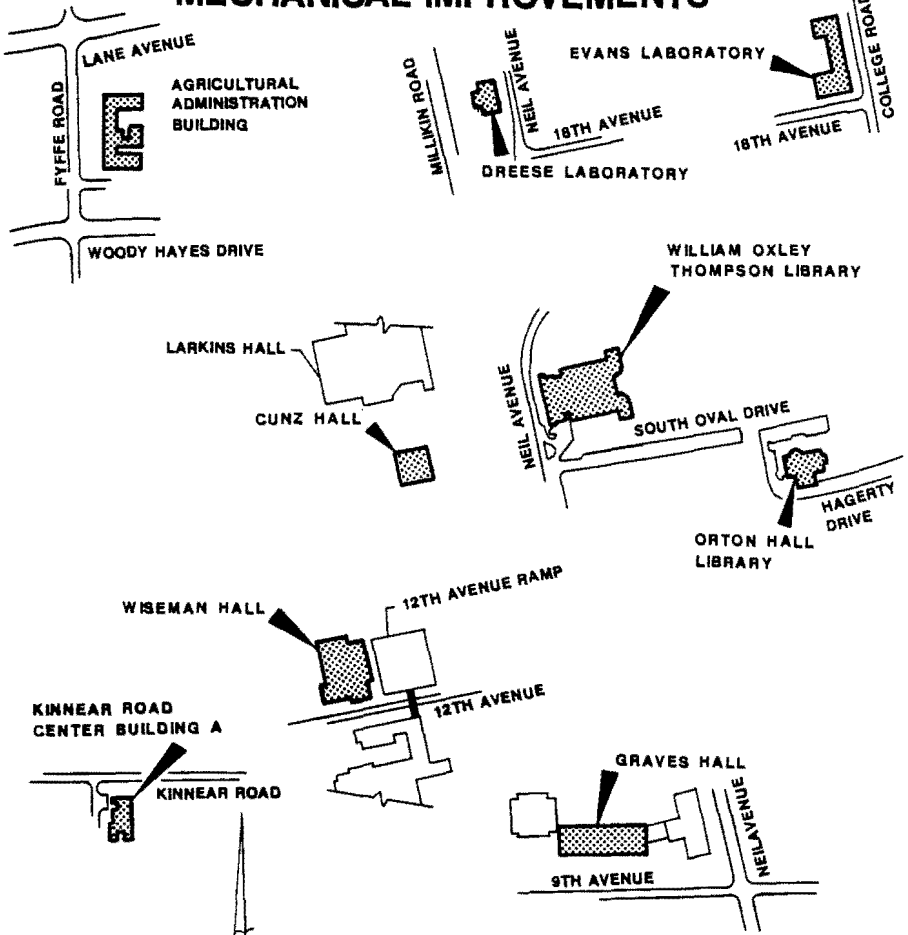


← WATERMAN FARMS



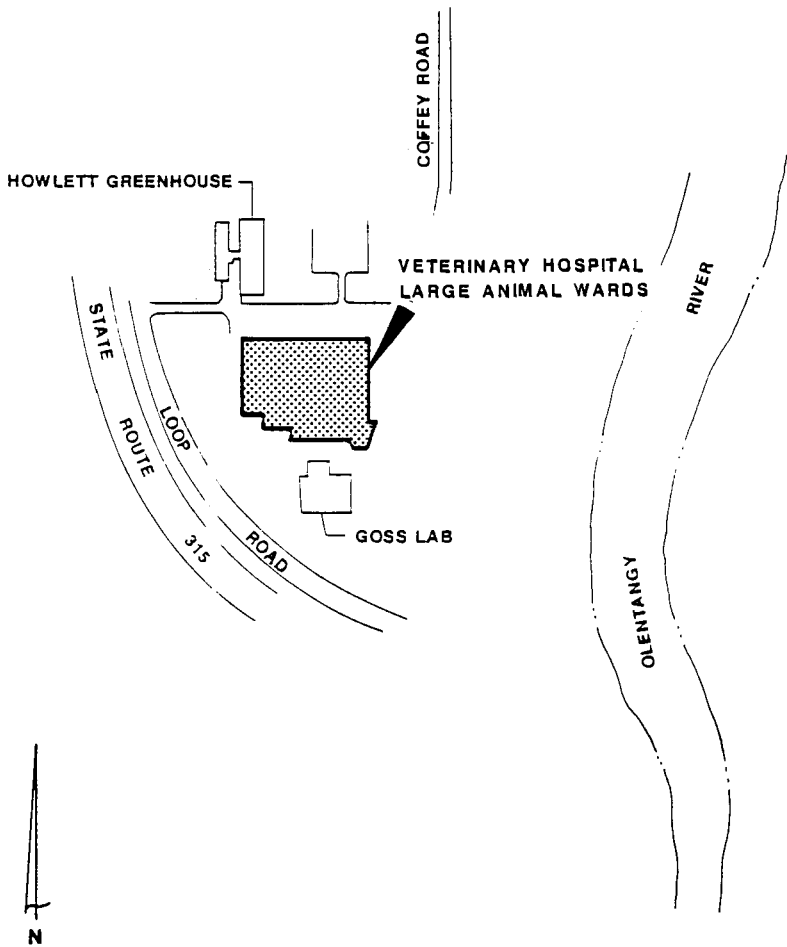
OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION MECHANICAL IMPROVEMENTS



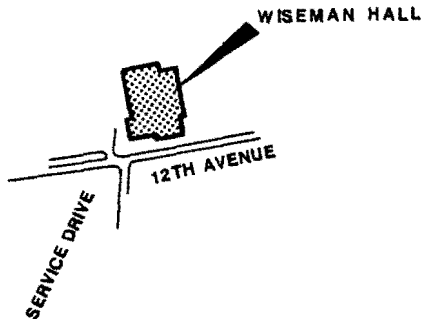
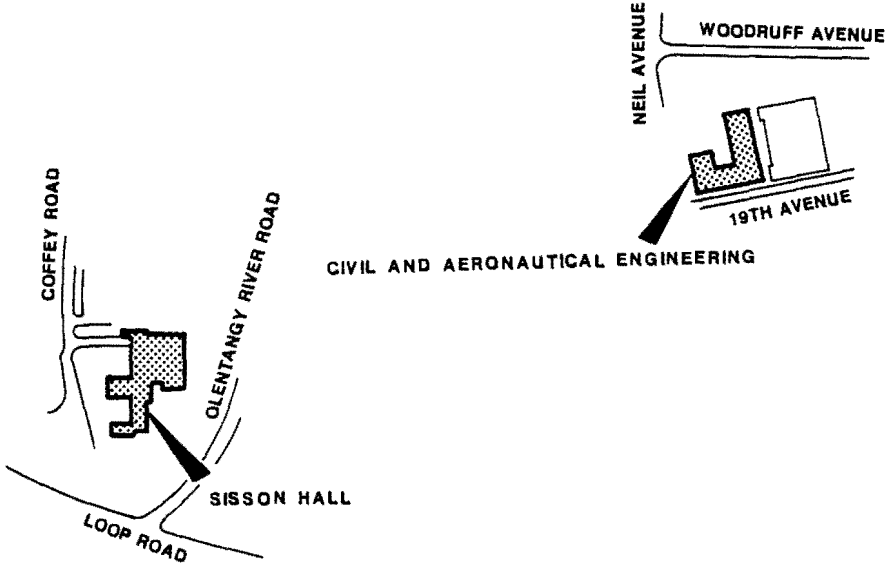
OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION VETERINARY HOSPITAL SPRINKLER SYSTEM



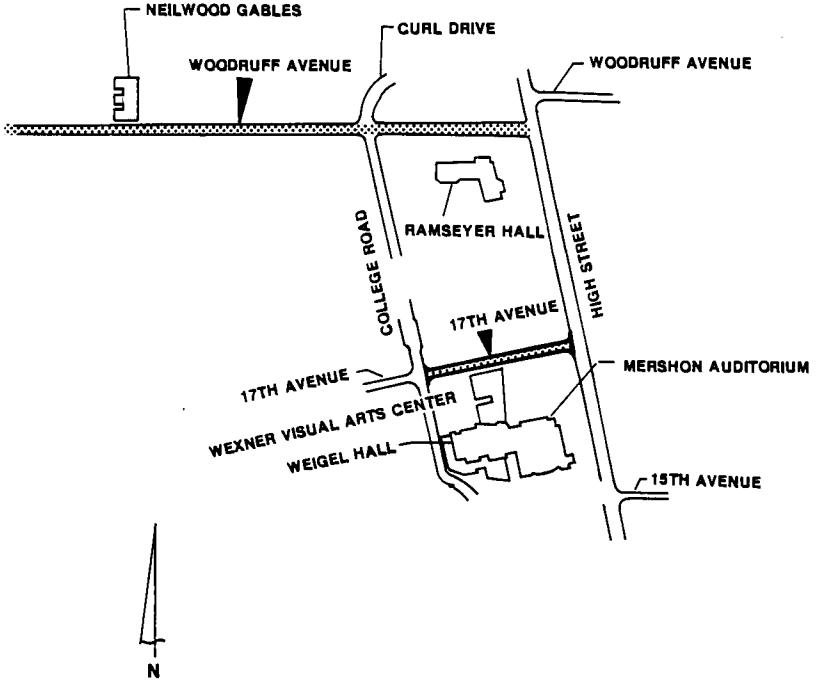
OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION CHILLER REPLACEMENTS



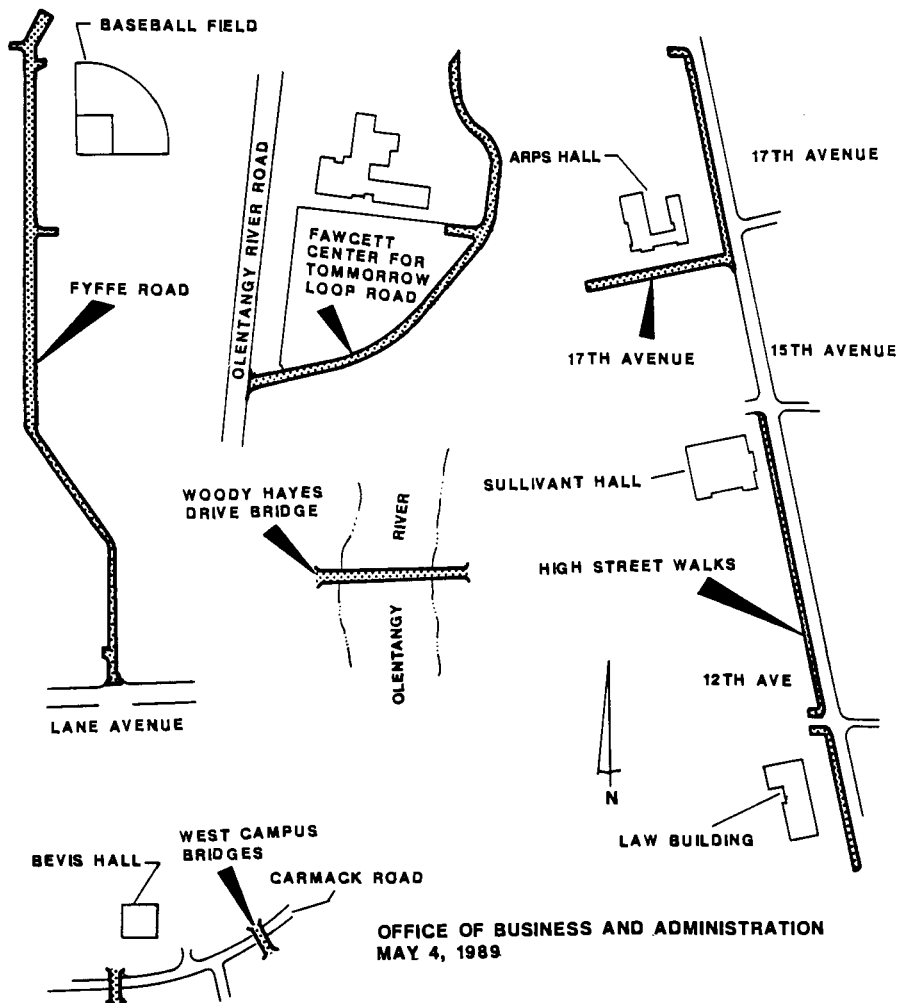
OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION SITE RENOVATIONS



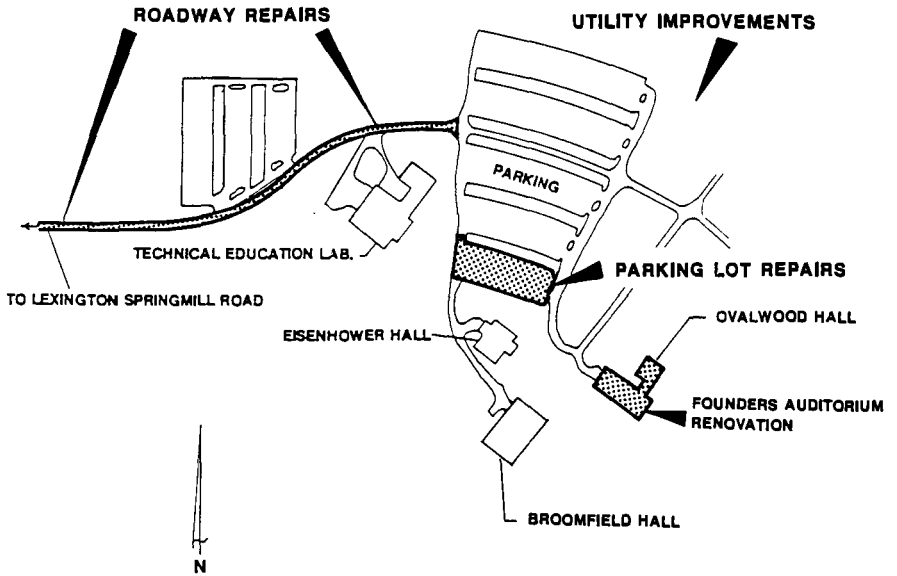
OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION BRIDGE AND STREET IMPROVEMENTS



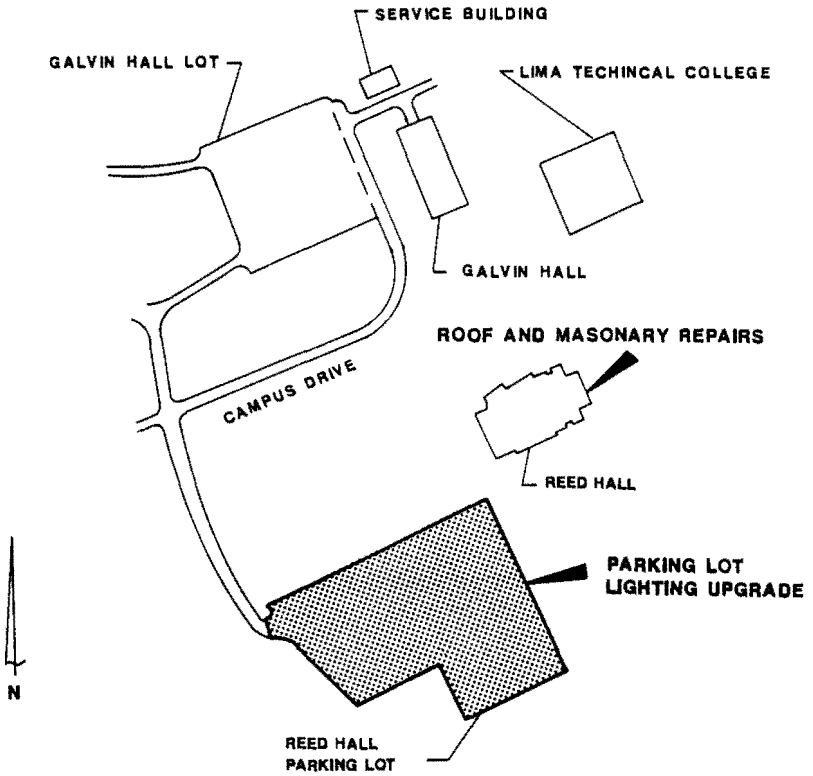
OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

BASIC RENOVATION PROJECTS REGIONAL CAMPUSES MANSFIELD



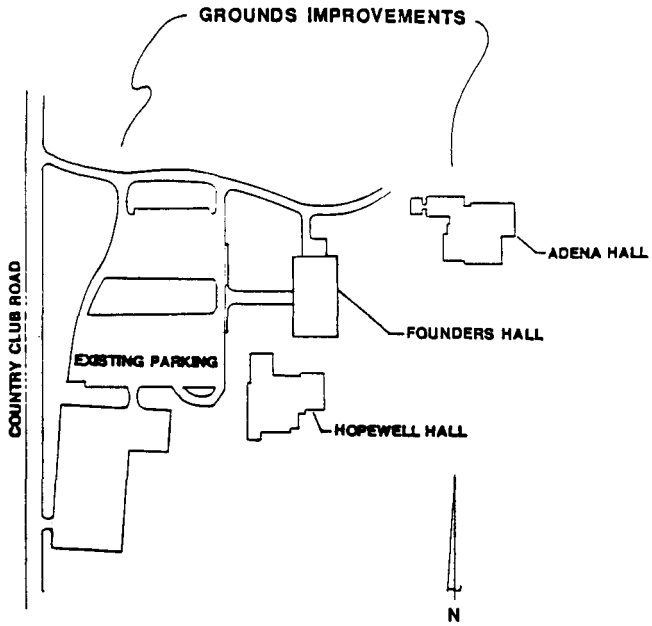
OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

BASIC RENOVATION PROJECTS REGIONAL CAMPUSES LIMA



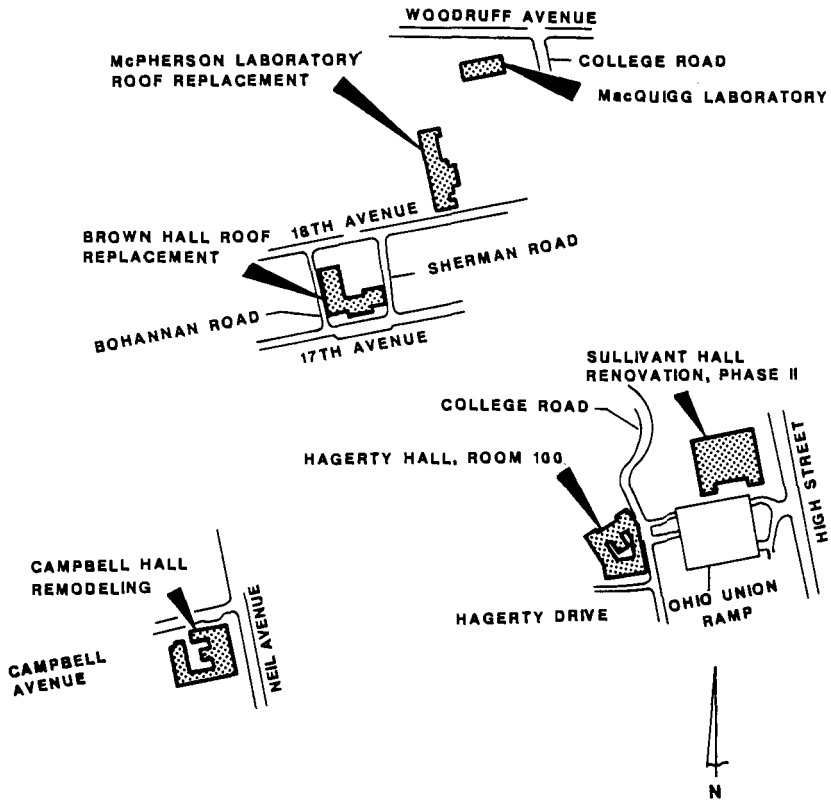
OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

**BASIC RENOVATION PROJECTS
REGIONAL CAMPUSES
NEWARK**



**OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989**

CAPITAL APPROPRIATIONS PROJECTS SUPPLEMENTAL RENOVATIONS



OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

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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	Estimate	Messer *	Smoot	Shook	Setterlin
Base Bid	\$6,618,311.00	\$4,834,000.00	\$4,824,000.00	\$4,947,000.00	\$4,980,000.00
Alt. G-1 (Cold Room 132)	\$29,600.00	\$22,000.00	\$20,500.00	\$18,500.00	\$18,700.00
Alt. G-3 (Cold Room 141)	\$29,600.00	\$22,000.00	\$20,500.00	\$18,500.00	\$18,700.00
Alt. G-4 (Fume Hoods A)	\$8,750.00	\$6,000.00	\$5,000.00	\$4,500.00	\$4,500.00
Alt. G-5 (Fume Hoods B)	\$82,848.00	\$31,000.00	\$64,500.00	\$32,000.00	\$31,300.00
Total General Contract (Includes all Alternates)	\$6,769,109.00	\$4,915,000.00	\$4,934,500.00	\$5,020,500.00	\$5,053,200.00
	Knowlton	Lincoln	Kokosing	Dunlop & Johnston	Dugan & Meyers
Base Bid	\$5,050,000.00	\$5,303,000.00	\$5,312,940.00	\$5,525,000.00	\$5,596,000.00
Alt. G-1 (Cold Room 132)	\$19,200.00	\$19,150.00	\$18,274.00	\$17,500.00	\$19,000.00
Alt. G-3 (Cold Room 141)	\$19,200.00	\$19,150.00	\$18,744.00	\$17,500.00	\$19,000.00
Alt. G-4 (Fume Hoods A)	\$4,600.00	\$4,700.00	\$4,637.00	\$4,500.00	\$4,700.00
Alt. G-5 (Fume Hoods B)	\$32,100.00	\$32,800.00	\$32,537.00	\$31,000.00	\$32,800.00
Total General Contract (Includes all Alternates)	\$5,125,100.00	\$5,378,800.00	\$5,387,132.00	\$5,595,500.00	\$5,671,500.00
Fire Protection Contract	Estimate	Franklin Fire Sprinkler *	Grunau Fire Protection	Capital Fire Protection	Culligan Fire Protection
Base Bid - No Alternates	\$173,670.00	\$171,436.00	\$189,288.00	\$210,377.00	\$244,000.00
Plumbing Contract	Estimate	J. A. Croson * +	Radico		
Base Bid	\$1,160,604.00	\$1,519,900.00	\$1,526,000.00		
Alt. P-1 (Cold Room 132)	\$1,000.00	\$800.00	\$1,000.00		
Alt. P-2 (Cold Room 141)	\$1,000.00	\$800.00	\$1,000.00		
Alt. P-3 (Fume Hoods A)	\$1,700.00	\$600.00	\$700.00		
Alt. P-4 (Fume Hoods B)	\$13,600.00	\$4,800.00	\$5,700.00		
Total Plumbing Contract (Includes all Alternates)	\$1,177,904.00	\$1,526,900.00	\$1,534,400.00		

+ 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.

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

HAMILTON HALL RENOVATION (Continued)

Tabulation of Bids (Continued)

HVAC Contract	Estimate	J. A. Crosron *	Julian Speer	Limbach	J. A. Guy
Base Bid	\$4,067,065.00	\$3,255,000.00	\$3,566,000.00	\$3,578,200.00	\$3,570,000.00
Alt. H-1 (Steam Service)	\$17,500.00	\$14,500.00	\$12,300.00	\$15,747.00	\$16,300.00
Alt. H-2 (Cold Room 132)	\$1,000.00	\$700.00	\$500.00	\$800.00	\$200.00
Alt. H-3 (Cold Room 141)	\$1,000.00	\$700.00	\$500.00	\$660.00	\$1,700.00
Alt. H-4 (Fume Hoods A)	\$6,000.00	\$4,700.00	\$5,000.00	\$3,270.00	\$6,700.00
Alt. H-5 (Fume Hoods B)	\$48,000.00	\$35,300.00	\$38,000.00	\$26,800.00	\$40,000.00
Total HVAC Contract	\$4,140,565.00	\$3,310,900.00	\$3,622,300.00	\$3,625,477.00	\$3,634,900.00
(Includes Alternates H-1 through H-5)					

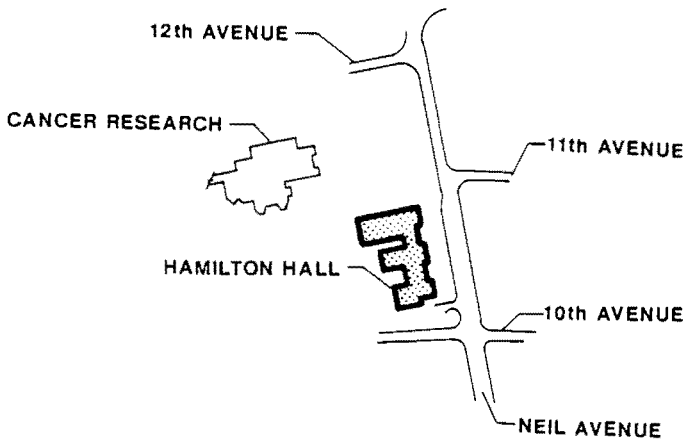
Alternates not taken:

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	Estimate	Royal *	Colgan	Buckeye	Electric Power
Base Bid	\$1,754,525.00	\$1,246,600.00	\$1,358,550.00	\$1,423,000.00	\$1,975,500.00
Alt. E-1 (Cold Room 132)	(\$350.00)	\$0.00	\$230.00	\$0.00	\$1,820.00
Alt. E-2 (Cold Room 141)	(\$350.00)	\$0.00	\$230.00	\$0.00	\$2,350.00
Alt. E-3 (Fume Hoods A)	\$2,500.00	\$520.00	\$1,286.00	\$100.00	\$5,650.00
Alt. E-4 (Fume Hoods B)	\$20,000.00	\$2,500.00	\$11,031.00	\$500.00	\$13,300.00
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	Estimate	Cargile *	Miles	Wise	Minority Allied/ Shook
Base Bid	\$1,500,000.00	\$1,360,000.00	\$1,438,000.00	\$1,443,000.00	\$1,524,000.00
Alt. F-1 (Sheet Vinyl Floor)	\$159,562.00	\$130,000.00	\$95,000.00	\$118,000.00	\$130,000.00
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



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

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 "*".

General Contract	Estimate	Ed Ross *	Farrell	Functional Development	Waller & Lund
Base Bid	\$146,000.00	\$137,470.00	\$132,200.00	\$139,539.00	\$152,000.00
Alt. G-1 (Metal Casework)	\$30,000.00	\$7,675.00	\$13,300.00	\$18,741.00	\$10,000.00
Alt. G-2 (New Ceiling)	\$1,000.00	\$900.00	\$1,800.00	\$1,025.00	\$1,000.00
Total General Contract (Includes all Alternates)	\$177,000.00	\$146,045.00	\$147,300.00	\$159,305.00	\$163,000.00
	M & P	Good Home Maintenance	Gutknecht	BS Contractors	Cody Zeigler
Base Bid	\$146,735.00	\$143,328.00	\$151,301.00	\$139,865.00	\$143,000.00
Alt. G-1 (Metal Casework)	\$15,050.00	\$20,688.00	\$13,768.00	\$18,425.00	\$22,000.00
Alt. G-2 (New Ceiling)	\$2,160.00	\$607.00	\$1,326.00	\$9,865.00	\$9,000.00
Total General Contract (Includes all Alternates)	\$163,945.00	\$164,623.00	\$166,395.00	\$168,155.00	\$174,000.00
	Hurley	Yadkin	Cargile	Altman	Williamson
Base Bid	\$155,850.00	\$161,000.00	\$160,597.00	\$153,135.00	\$166,200.00
Alt. G-1 (Metal Casework)	\$17,400.00	\$12,679.00	\$15,000.00	\$23,387.00	\$12,869.00
Alt. G-2 (New Ceiling)	\$850.00	\$1,350.00	\$1,000.00	\$650.00	\$300.00
Total General Contract (Includes all Alternates)	\$174,100.00	\$175,029.00	\$176,597.00	\$177,172.00	\$179,369.00
	R. D. Rogers	Scherl-Wilson			
Base Bid	\$154,493.00	\$174,900.00			
Alt. G-1 (Metal Casework)	\$28,065.00	\$15,000.00			
Alt. G-2 (New Ceiling)	\$2,275.00	\$3,000.00			
Total General Contract (Includes all Alternates)	\$184,833.00	\$192,900.00			

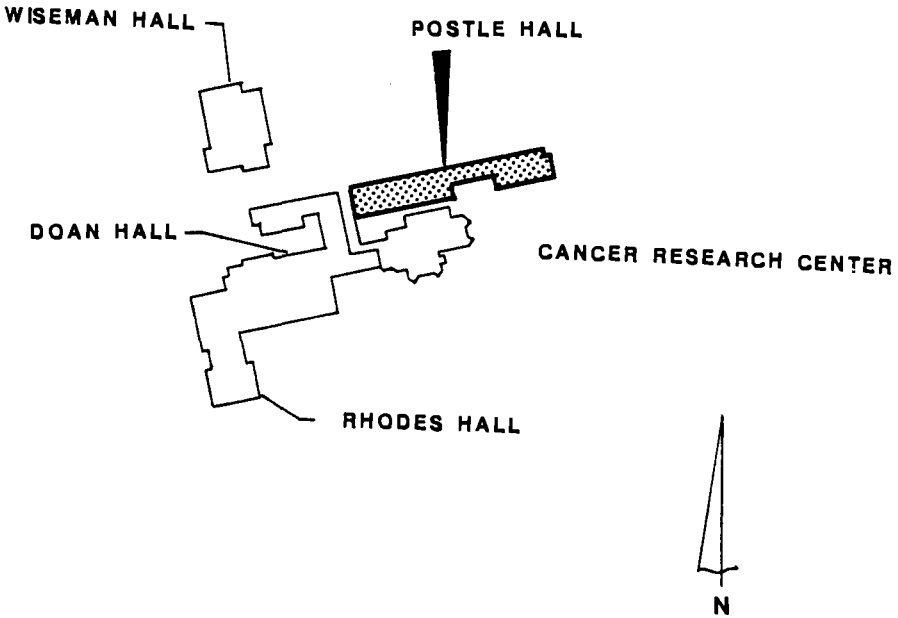
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS (Continued)

POSTLE HALL ORAL BIOLOGY LABORATORY (Continued)

Tabulation of Bids (Continued)

Plumbing Contract	Estimate	Marco *	Westland	Radico	Farber
Base Bid - No Alternates	\$15,000.00	\$18,370.00	\$19,800.00	\$20,800.00	\$23,700.00
HVAC Contract	Estimate	J. A. Guy *	Farber	Central	Radico
Base Bid - No Alternates	\$115,000.00	\$122,300.00	\$125,300.00	\$144,600.00	\$146,200.00
Electric Contract	Estimate	Frush & Homan *	Power National	Reco	Petter
Base Bid - No Alternates	\$37,000.00	\$36,701.00	\$38,743.00	\$40,806.00	\$43,200.00
	Goodin	Jess Howard	Jade	Romanoff	Altech
Base Bid - No Alternates	\$43,500.00	\$44,400.00	\$45,978.00	\$46,800.00	\$47,680.00
	Electric Power	Claggett	Claypool	States	
Base Bid - No Alternates	\$49,380.00	\$56,165.00	\$56,500.00	\$72,795.00	

POSTLE HALL ORAL BIOLOGY LABORATORY



OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

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

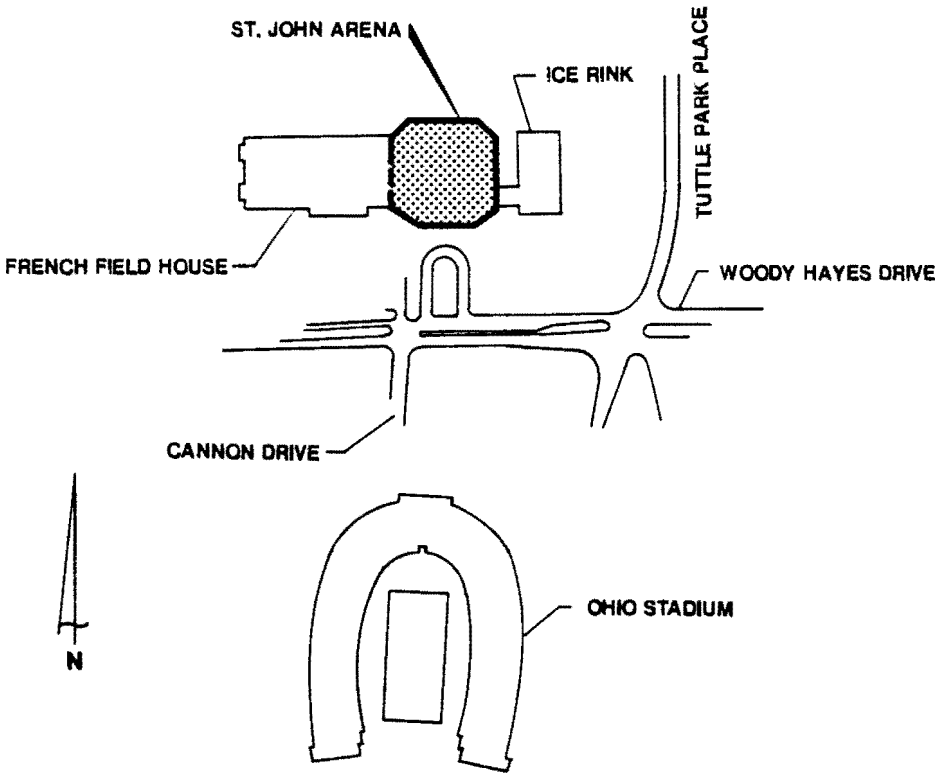
ST. JOHN ARENA - ROOF REPLACEMENT

Tabulation of Bids

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 **.

General Contract	Estimate	Mid American *	Industrial		
			First	Chem-Wood	Kramer & Son
Base Bid	\$850,000.00	\$629,770.00	\$643,500.00	\$671,031.00	\$679,799.00
	Nationwide	Harold Becker	Richard Smith		
Base Bid	\$775,292.00	\$777,417.00	\$827,376.00		

ST. JOHN ARENA ROOF REPLACEMENT



OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989

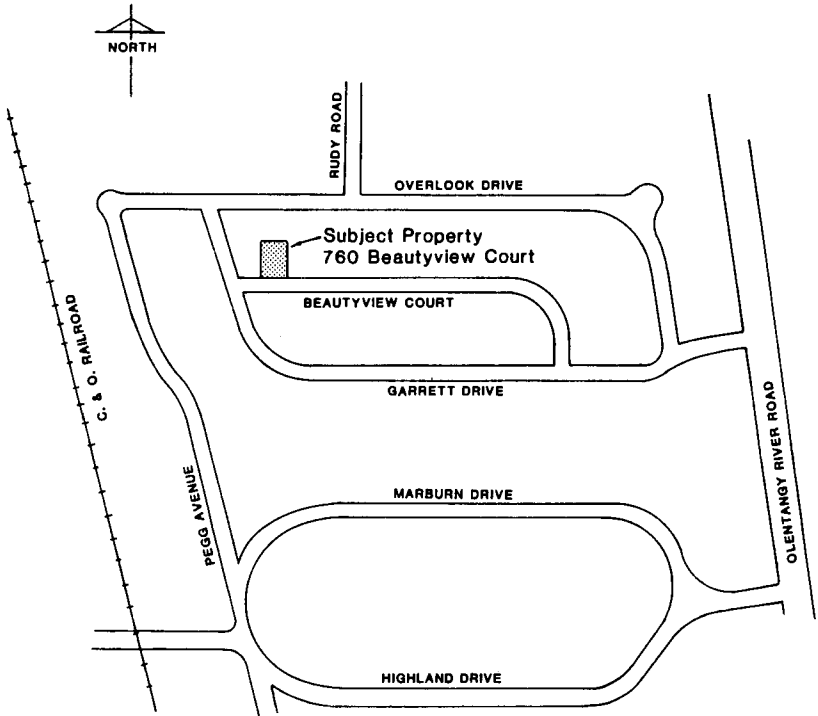
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APPENDIX XXXXVII

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



NO TRUE SCALE

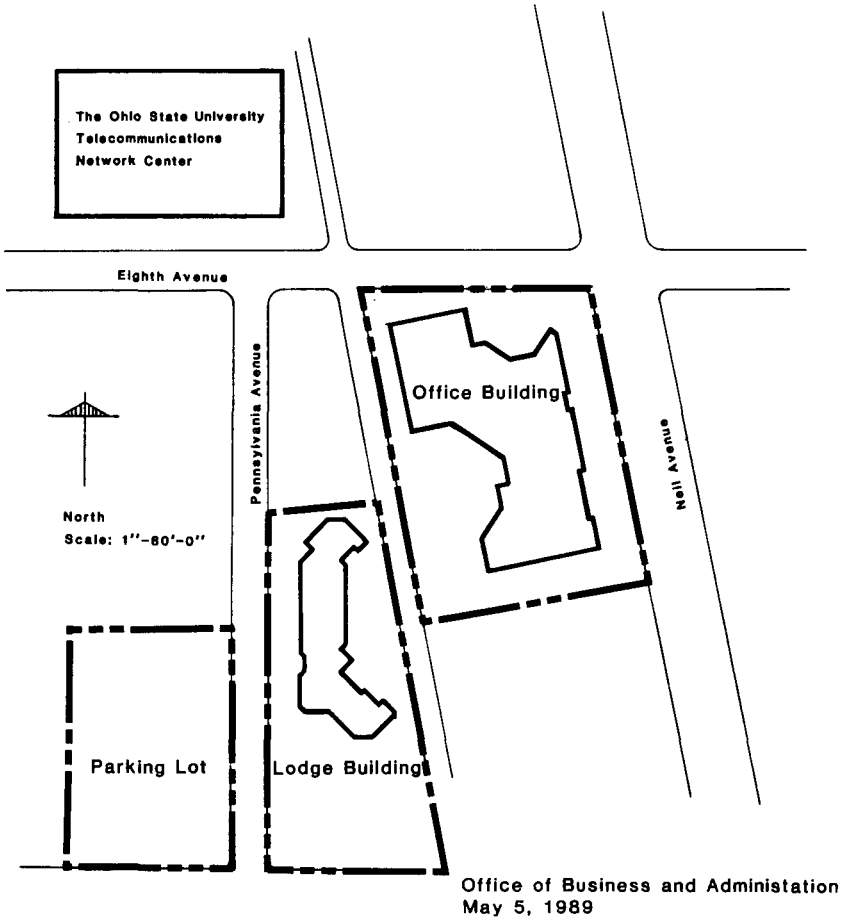
Office of Business and Administration
May 5, 1989

APPENDIX XXXXVIII

PURCHASE OF REAL PROPERTY
CRANSTON CENTER
1501 NEIL AVENUE, ET AL., COLUMBUS, OHIO

Adopted by the Board of Trustees May 4, 1989
(See page 1133)

Purchase of Real Property
Cranston Center
Columbus, Ohio

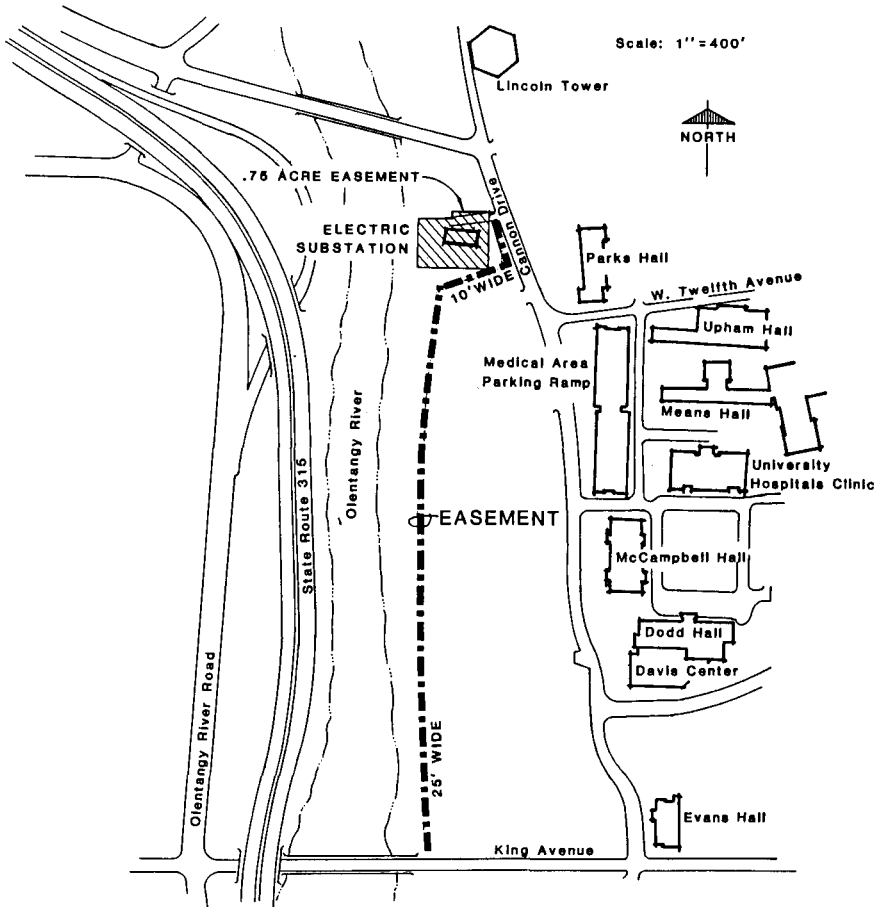


APPENDIX XXXXVIII

EASEMENT
COLUMBUS SOUTHERN POWER COMPANY

Adopted by the Board of Trustees May 4, 1989
(See page 1135)

Columbus Southern Power Company Easement Renewal



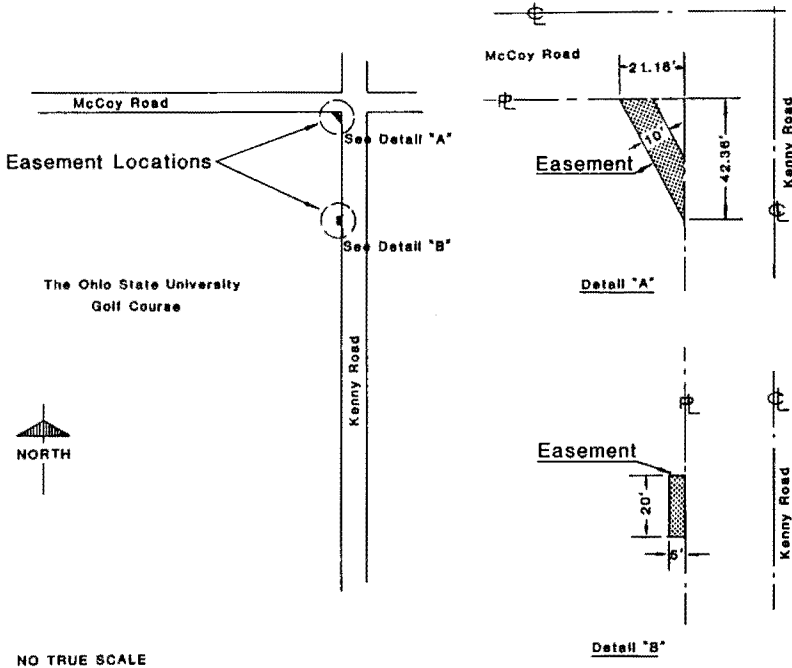
Office of Business and Administration
May 5, 1989

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

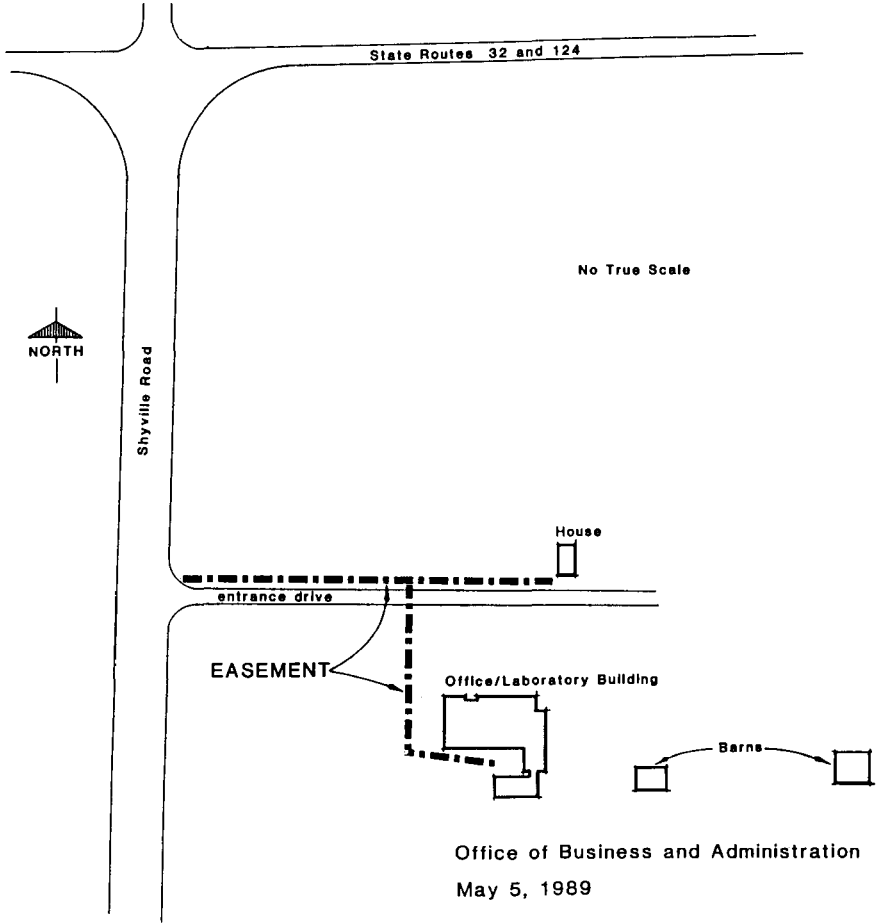
May 5, 1989

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



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 COVERAGES 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:

<u>PERCENTAGE APPOINTMENT</u>	<u>OSU PAYMENT</u>	<u>EMPLOYEE PAYMENT</u>
100%	85%	15%
90%	85%	15%
80%	80%	20%
70%	70%	30%
60%	60%	40%
50%	50%	50%
0 to 49%	NO COVERAGE	NO COVERAGE

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

ADDITIONAL USE SHOULD BE MADE OF CO-PAYMENTS UNDER UAHP FOR TESTS, X-RAYS AND OTHER SERVICES, BASING THE CO-PAYMENT ON A PERCENTAGE OF THE COST. EFFECTIVE DATE: NOT LATER THAN JANUARY 1, 1990.

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**

COVERAGE TYPE	MONTHLY PREMIUM				
	ACTUAL 1988-89	ESTIMATED 1989-90	ESTIMATED 1990-91	ESTIMATED 1991-92	ESTIMATED 1992-93
SINGLE	83.82	117.80	131.94	147.77	165.50
TWO PERSON	167.64	235.60	263.87	295.54	331.00
FAMILY	262.10	368.36	412.56	462.07	517.52
COMPOSITE	185.00	260.00	291.20	326.14	365.28

	PROPOSED COST SHARING FOR FULL TIME STAFF				
	1988-89 15%	1989-90 15%	1990-91 18%	1991-92 21%	1992-93 25%
SINGLE	12.57	17.67	23.75	31.03	41.38
TWO PERSON	25.15	35.34	47.50	62.06	82.75
FAMILY	39.32	55.25	74.26	97.03	129.38
COMPOSITE	27.75	39.00	52.42	68.49	91.32

	ENROLLMENT FULL TIME STAFF				
	1988-89 EXCLUDING CWA	1989-90 EXCLUDING CWA	1990-91	1991-92	1992-93
SINGLE	3480	3480	4062	4062	4062
TWO PERSON	2900	2900	3385	3385	3385
FAMILY	5218	5218	6094	6094	6094
TOTAL	11598	11598	13541	13541	13541

	VALUE OF COST SHARING FOR FULL TIME STAFF				
	1988-89	1989-90	1990-91	1991-92	1992-93
SINGLE	525,048	737,899	1,157,596	1,512,592	2,016,789
TWO PERSON	875,081	1,229,832	1,929,327	2,520,987	3,361,316
FAMILY	2,461,748	3,459,784	5,430,586	7,095,966	9,461,287
TOTAL	3,861,877	5,427,515	8,517,509	11,129,545	14,839,392

THE OHIO STATE UNIVERSITY
MEDICAL CLAIMS PAID AND PREMIUM INCOME - HISTORICAL SUMMARY

YEAR	CLAIMS PAID (1)	% INCR	ADMIN COST (2)	% INCR	TOTAL CLAIMS & ADMIN (3)	% INCR	PREMIUM INCOME (4)	% INCR	INCLUDED CLAIMS RESERVE (5)
BEGINNING BALANCE 7-1-83 & INTEREST EARNED			(\$1,915,794) THRU 6-30-88						\$9,300,001
1983-84	\$17,535,806		\$177,806		\$18,203,690		\$18,916,653		\$10,811,044
1984-85	\$17,539,902	1.21	\$188,951	1.22	\$18,424,453	1.21	\$21,070,001	11.40	\$12,656,992
1985-86	\$19,948,445	13.76	\$1,191,119	34.05	\$21,139,564	14.74	\$22,599,720	7.26	\$14,116,968
1986-87	\$25,635,731	27.51	\$1,729,272	45.18	\$27,165,003	28.50	\$24,209,279	7.12	\$11,161,084
1987-88	\$29,056,519	14.24	\$2,189,649	26.62	\$31,246,168	15.02	\$25,908,321	7.02	\$5,823,177
1988-89 (EST)	\$38,348,000 (6)	31.95	\$2,316,489	5.79	\$40,664,489	30.12	\$35,464,500	36.88	\$631,188
1989-90 (EST)	\$48,883,500 (6)	27.50	\$2,432,313	5.00	\$51,315,813	26.22	\$35,464,500 (7)	0.00	(\$19,228,325)

- (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

<u>Coverage</u>	<u>In Network</u>	<u>Out of Network</u>	<u>Traditional Plan</u>
Office Visit	<u>\$10</u> per visit	80% after <u>\$150</u> deductible	80% after <u>\$150</u> deductible
Surgical Procedure	Paid in full	Schedule of payments (max = \$1200), balance at 80% after <u>\$150</u> deductible	Schedule of payments (max = \$1200), balance at 80% after <u>\$150</u> deductible
In-Hospital Physicians Care	Paid in full	First visit-\$30, next 3-\$15, next 116-\$12, balance at 80% after <u>\$150</u> deductible	First visit-\$30, next 3-\$15, next 116-\$12, balance at 80% after <u>\$150</u> deductible
In-Patient Hospital Charges	Paid in full	80% of semi-private rate, maximum co-pay = \$1000	120 days paid in full, balance at 80% after <u>\$150</u> deductible
In-Patient Mental Health	80% <u>\$100,000 lifetime max</u>	<u>70% after \$150 deductible</u> <u>\$100,000 lifetime max</u>	<u>70% after \$150 deductible</u> <u>\$100,000 lifetime max</u>
Out-Patient Mental Health	<u>70% after \$150 deductible</u> <u>to \$2000 benefit per year max</u> <u>\$25,000 lifetime max</u>	<u>50% after \$150 deductible</u> <u>to \$2000 benefit per year max</u> <u>\$25,000 lifetime max</u>	<u>50% after \$150 deductible</u> <u>to \$2000 benefit per year max</u> <u>\$25,000 lifetime max</u>
Outpatient Lab and X-Ray	<u>80%</u>	80% after <u>\$150</u> deductible	80% after <u>\$150</u> deductible
Prescription Drugs	<u>80% Brand Name</u> <u>90% Generic</u>	<u>80% Brand Name, 90% Generic</u> <u>after \$150 deductible</u>	80% after <u>\$150</u> deductible
Obstetrical/Maternity	Paid in full	Schedule of payments (max = \$1200), balance at 80% after <u>\$150</u> deductible	Schedule of payments (max = \$1200), balance at 80% after <u>\$150</u> deductible
Immunizations	Paid in full	Birth to 6 months - in full After 6 months - not covered	Birth to 6 months - in full After 6 months - not covered
Emergencies - Medical	Acute - in full other at 80%	Acute - paid in full, other at 80% after <u>\$150</u> deductible	Acute - paid in full, other at 80% after <u>\$150</u> deductible
Emergencies - Accident	Paid in full	Paid in full	Paid in full
Physical Therapy, Hospital Outpatient	Paid in full	80% after <u>\$150</u> deductible	60 visits in full, balance at 80% after <u>\$150</u> deductible
Physical Therapy Home/Doctor's Office	Paid in full	80% after <u>\$150</u> deductible	80% after <u>\$150</u> deductible
Occupational and Speech Therapy	Paid in full	Not covered	Not covered
Routine Gynecology Examinations	Paid in full	Not covered	Not covered
Physicals, including associated lab and X-rays	Schedule of lifetime physicals. <u>Adult physicals 80%</u>	Birth to 6 months - 6 exams paid in full, after 6 months - not covered	Birth to 6 months - 6 exams paid in full, after 6 months not covered

* Underlined items are changes

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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 videotapes. 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. Koenigsnecht

Doctor of Philosophy

Amir M. Abduljalil, Iraq; B.S., M.S. (Baghdad University); *Physics*
Dr. H. Hausman

Ayman Soliman Aguib, Egypt; B.S., M.S. (Ain Shams University); *Civil Engineering*
Dr. Keith W. Bedford

Engin Umüt Akkaya, Istanbul, Turkey; B.Sc. (Middle East Technical University); M.S.; *Chemistry*
Dr. Anthony W. Czarnik

Abdulhadi Saad Al-Abdulhadi, Dammam, Saudi Arabia; B.S. (King Saud University); M.A. (Ohio University); *Education*
Dr. Elsie J. Alberty

Amer A. S. Al-Shahrani, Khamis Mushaita, Saudi Arabia; B.S. (College of Education at Abha); M.A.; *Education*
Dr. Robert Howe

Yousuf Ghaloom Ali, Kuwait; B.A. (Kuwait University); M.A.; *Sociology*
Dr. Katherine Meyer

Bill Theodore Ameredes, Columbus; B.S., M.S. (University of Akron); *Physiology*
Dr. Jack Rall

Masoud Amin-Javaheri, Esfahan, Esfahan, Iran; B.S.E.E., M.S.; *Electrical Engineering*
Dr. D. E. Orin

Maria Therese Annoni, Duluth, MN; B.A. (College of Saint Scholastica); M.A.; *Music*
Dr. Burdette L. Green

Melvin Damian Ayog, 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

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Dr. J. D. Latshaw

Steven Louis Barnicki, 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

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Dr. W. R. Harvey

Ibrahim Abdulaziz Beayez, Saudi Arabia, B.A. (Riyadh University); M.A. (Michigan State University); *Communication*
Dr. Thomas McCain

Faiza Ali Besbasi, 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

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Dr. Sue Leurgans

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Dr. Harry Hershey

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Dr. Steven Bibyk

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Dr. Allan J. Yates
- Karl Elwood Nestor**, Wooster; B.S.Agr.; M.S. (University of Kentucky); *Dairy Science*
Dr. Harry Conrad
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Dr. Leroy Krajewski
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Dr. William M. Sherman
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Dr. William Dowling
- Cheryl Lynn Swenson**, Minneapolis, MN; B.S., D.V.M. (The University of Minnesota); *Veterinary Pathobiology*
Dr. Lawrence E. Mathes
- Kathleen Lou Tarr**, Akron; B.A. (Mount Vernon Nazarene College); *Medical Microbiology and Immunology*
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Dr. Williamson Murray

Master of Applied Statistics

- Shiang-Jiun Chen**, Taiwan, R.O.C.; B.S. (National Taiwan University); *Statistics*
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- David Keith Wall**, Winchester, KY; B.S. (Eastern Kentucky University); *Statistics*

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Master of Architecture

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Master of Arts

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Michele Faith Carron, Holley, NY; *Health, Physical Education and Recreation*

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- Barbara Elizabeth D'Angelo**, Fremont; B.A. (Wittenberg University); *Business Administration*
- Catherine Louise Daverio**, 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.Ad.; *Business Administration*
- Christopher Edward Donohue**, Lancaster; B.S.Bus.Ad.; *Business Administration*
- Todd Leroy Drew**, Columbus; B.S.Bus.Ad.; *Business Administration*
- Philip Alexander Dukas**, Alexandria, VA; B.S. (Virginia Polytechnic Institute and State University); *Business Administration*
- Kent 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*
- Hassan Ali Ezzeddine**, Columbus; B.S. (The University of Oklahoma); M.S.; *Business Administration*
- Bonnie Wechter Fadel**, 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.Ad.; *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 Fronk**, 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 Glessner**, Columbus; B.S.Nurs.; *Business Administration*
- Jeffrey Thurlo Glidden**, 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, NJ; B.S. (Indiana University); *Business Administration*
- Wey-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 Helmecki**, 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, P.R.C.; 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.Ad.; *Business Administration*
- Pamela S. Hutchins**, Columbus; B.S. (Southern Illinois University at Carbondale); *Business Administration*
- Tom Akemu Iseghohi**, Columbus; B.S. (Bethune Cookman College); *Business Administration*
- Ryo Ishida**, Horomui, Iwamizawa, Japan; B.A. (Hokkaido University); *Business Administration*
- Jonathan Appleget 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.Ad., 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**, Fijisawa-shi Kanagawa, Japan; B.A. (Keio University); *Business Administration*
- William Geobhegan 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*
- Lynna 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 Lassila**, 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.Ad.; *Business Administration*
- Wei Wei Lee**, Singapore; B.S.Bus.Ad.; *Business Administration*
- Carolyn Ann Leedy**, Mansfield; B.S. (Valparaiso University); *Business Administration*
- Douglas Joseph Lewan**, Valparaiso, IN; B.S. (Indiana University); *Business Administration*
- I-Chyun Liu**, Taiwan, Taiwan, R.O.C.; B.S. (The National Taiwan University); *Business Administration*
- Theodore Ryan Lozier**, 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.Ad.; *Business Administration*
- Robert John Nathaniel Manosky**, Worthington; B.S. (Manchester College); *Business Administration*
- Susan M. Manrodt**, Des Moines, IA; B.S.Bus.Ad.; *Business Administration*
- Jennifer J. Martin**, Zanesville; B.A.; *Business Administration*
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- 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.Ad.; *Business Administration*
- Philip Curtis McNeil**, Beaver Creek; B.S. (Wright State University); *Business Administration*
- Nancy Lynn Mead**, Delaware; B.S.Bus.Ad.; *Business Administration*
- Richard Charles Merrin**, 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.Ad., J.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*
- Carolyne Joy Mucharsky**, Sydney, Australia; B.S.; *Business Administration*
- H. Kenneth Mui**, 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.Ad.; *Business Administration*
- Tiru C. Narayan**, Grove City; Master's (Wayne State University); *Business Administration*
- Jerry Allen Neal, Jr.**, Columbus; B.S. (Miami University); *Business Administration*

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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., B.A. (State University of New York at Buffalo); M.A.; *Business Administration*

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Miriam W. Perry, Columbus; B.S. (Purdue University); *Business Administration*

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Brian Michael Philbin, Perrysburg; B.S.Agr.; *Business Administration*

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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 Sillman, Columbus; B.S.I.S.E.; *Business Administration*

Robert Gerald Sines III, Cortland; Bachelor's (Youngstown State University); *Business Administration*

Stewart Alan Skomra, Lisbon; 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.Ad.; *Business Administration*

Robert Wesley Smith, Rochester, NY; B.A. (Wittenberg 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 Syljbeek, Columbus; B.S.Mng.Engr.; *Business Administration*

Takahiko Takeda, Tokyo, Japan; B.A. (Waseda University); *Business Administration*

Tracy Claire Thoman, Columbus; B.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.B.A. (The National Chang Hsing University); *Business Administration*

Bruce Michael Tylock, Williamsville, NY; B.S.Ch.E.; *Business Administration*

Brett Jason Walrath, Ashtabula; B.S.; *Business Administration*

Charles David Warner, Wheelersburg; B.S.; *Business Administration*

Daniel Vance Watkins, Columbus; B.S.Bus.Ad.; *Business Administration*

Peggy Ann Wauben, Delphos; B.S.Bus.Ad.; *Business Administration*

Hugh David White, Jr., Toledo; B.A. (Tulane University); *Business Administration*

Thomas Eugene Wilkins, Columbus; B.S.Bus.Ad.; *Business Administration*

Martha Annette Williams, Petersburg, VA; B.S. (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.Ad.; *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 Binghamton); *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 Enedy, Grafton; B.A. (Miami University); *City and Regional Planning*

Bonnie K. Guttman, Columbus; B.A.; *City and Regional Planning*

Julia Rose Hamilton, Beavercreek; B.A. (Smith College); *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 Maslamani, Zarqua, Jordan; B.S.Arch.; *City and Regional Planning*

Joseph Rossi, Poland; B.A. (Youngstown State University); *City and Regional Planning*

Ari Siswanto, Palembang S Sudiatra, Indonesia; Diploma (Surabaya Institute of Technology); *City and Regional Planning*

Sheng-Tsz 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 Yusof, 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 Shellard, 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.Al.Hth.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 Gorochow, 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 Kleinhanzl, 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*

Dennis Timko, Columbus; B.S. (University of Cincinnati); *Hospital and Health Services Administration*

Mary Jo Vara, Gahanna; B.S. (Franklin University); *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 Ellefson, 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. (Kyoung-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.M. (Ewha Women's University); *Music*

James Monroe Morrow, Jr., Alvin, TX; B.Mus. (Hardin-Simmons University); *Music*

Sandra Lynn Perry, Bloomington, IL; B.M. (Illinois State University); *Music*

Thomas 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. (University of Cincinnati); *Public Administration*

Linwood Corbett, Jr., Richmond, VA; B.A. (Virginia Union University); *Public Administration*

Daryl Paul Hennessey, 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 Rossvanes, Youngstown; B.S. (Youngstown State University); *Public Administration*

William Edward Snuffer II, Columbus; B.S.; *Public Administration*

David Andre Thaeler, Mentor; B.S.Bus.Adm.; *Public Administration*

Sheila Margaret Valles-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 Ifeyinwa Akusoba, Columbus; B.S. (University of Nigeria); *Pharmacy*

Curtis William Alden, Van Wert; B.S.Agr.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.Agr.; *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*

Jamelellil 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.Ch.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.Agr.; *Agricultural Education*

Donna Marie Broermann, Camden; B.S.Agr.; *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 Burte, 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. Campisteguy, 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*

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- Richard Joseph Saup**, Columbus; B.S.Soc.Wel.; *Social Work*
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- Carmen Carter Slagle**, Newark; B.S.Soc.Wel.; *Social Work*
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- Julie Elizabeth Snyder**, Hudson; B.S. (Kent State University); *Social Work*
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- Stephanie Michelle Stasiak**, 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*
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- Diana Lynn Thomas**, Columbus; B.S.Soc.Work; *Social Work*
- Kathryn A. Thompson**, Columbus; B.S.Ed.; M.S. (The University of Dayton); *Social Work*
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- Tracy Kathleen Vosdoganes**, Toledo; B.S.S.W. (Xavier University); *Social Work*
- Marilyn Elaine Walsh**, Portsmouth; B.S.W. (University of Cincinnati); *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.Work; *Social Work*
- Mauria Kirkpatrick Wideman**, Westerville; B.A.; *Social Work*
- Kimberly Ann Woodyard**, Granville; B.A.; *Social Work*
- Jean Kauffman Yost**, Columbus; B.A. (Colorado Woman's College); *Social Work*
- Rose Marie Zingrone**, Massillon; B.S.W. (University of Akron); *Social Work*
- Michael C. Zorich**, Columbus; B.S.Ed., M.A.; *Social Work*

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

College of the Arts

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James Eugene Cross, Strongsville
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Barbara Ann Koyle, Canton
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Christopher Dean Madden, Arcanum
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Jeffrey Lawrence Murphy, Kettering
Holly Marie Natwora, Columbus
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Mary Kathryn Plummer, Westerville
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Peter Alan Wieneke, Middletown
Donna Jean Zoll, Columbus

Bachelor of Music

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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
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Jacqueline Kay Schomer, Warren

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Bachelor of Music Education³

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Deborah Ann Borland, Alliance
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Bryan Lynn Day, Shelby
Christina Naumoff Dorinsky, Orrville
Mary Joanne Evans, Columbus
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Christy Kathleen Hoey, Kettering
Amy Marie Isler, Massillon
Scott Allan Jones, Fairfax, VA
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Elizabeth Ann Natali, Hamilton
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Michelle Joan Rachocki, Worthington
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Bachelor of Science in Audio Recording

John Paul Azelvandre, Columbus
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Brian Scott Kallaher, Urbana
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Bachelor of Science in Industrial Design

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Daniel Murray Beam, Cambridge
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Mark Vincent Budde, Cincinnati
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Ching Ching Chung, Centerville
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Megan Elizabeth Cook, Columbus
Kelly Maureen Corcoran, Columbus
Gary Lee Dailey II, Columbus
Jerald Edward Durkin, Barborton
Ruthanne Evey, Cleveland Heights
Daniel Scott Fiser, Defiance
Benjamin Cotter Goodman, Columbus
Kelly Ann Horton, Zanesville
Kenneth James Hydak, Strongsville
Dimitrios Evan Kargiotis, Brecksville
Martin William Keen, North Andover
Molly Marie Kestner, Lyndhurst
Jeffrey Lee Kimble, Fostoria
Robert W. Krieg, Vienna
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Douglas Kent Ritterling, Columbus
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Fernando Miguel Rojas, Guaynabo, PR
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Loretta Elizabeth Sherman, Kettering
Barry Webster Smith, Columbus
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Jill Leon Welch, Cuyahoga Falls
Rodney L. Wilder, Newark
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College of Biological Sciences

Dean: William A. Jensen

Bachelor of Arts

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Brian MacDermott Mehling, Centerville
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Bachelor of Science

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Karen Cox Butsch, Westerville
Michael George Chrissos,
Upper Arlington

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Michael David Conaway, Hilliard
Lisa Renée Cottrell, Alexandria
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Steven Warren Crawford, Portsmouth
Patrick McCrory Dull, Greenville
Bradley David Egbert, Sidney
Deborah Ann Fahey, Columbus
Derek James Faridad, Bayside, NY
Susan M. Fedinec, Lisle, IL
Victoria Marie Fimiani, Mentor
Barrett Michael Finnell, Worthington
Karen Yvonne Floyd-Beaver,
New Haven, CT
Sheryl Anne Forest, Mentor
John Austin Fry, Columbus
Cynthia Leigh Gordon, Cincinnati
Jennifer Lynn Haley, Canton
Robert Edward Hall, Jr., Newgarden
Katherine Lewis Henneberg, Cincinnati
Eric Wayne Hickman, Lucasville
Melinda Lou Hoffman, Worthington
William Eugene Hopkins, Bloomingdale
John Kelly Hughes, Columbus
Tanya Marie Hybl, Baltimore, MD
Aurelia Jeannette Jackson, Columbus
Julie Rebecca Jackson, Marysville
Kaisera Jamil, Columbus
John Gregory Johnson, Westerville
Cheryl Anne Johnstone, Greenhills
Daniel Kantarovich, Pepper Pike
Uma Kavita, Columbus
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Rhea Michelle Khavari, Columbus
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Michael Scott Kinch, Hamilton
Denise Lavern Koncelik, North Lawrence
Seth Daniel Kraner, Carroll

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Bernadette Lanchman, Highland Heights
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Nicole Aleene Manns, Miamisburg
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Franklin Arthur Michota, Jr., Sylvania
Matthew Alan Misicka, Columbus
Darren Blaine Nease, South Point
Daniel Ernest Neely, Fairborn
Susan Renee Opalenik, Wadsworth
Gale Edward Pace, Columbus
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Michael Joseph Phipps, Steubenville
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Adam Charles Tzagournis, Columbus
Patrick Anthony Vaglienti, Columbus
George Charles Van Aman III, Findlay
Lori Michelle Vance, Medina
Cheryl Lynn Van Epps, Dover
Jenny Lynn Vargo, Newark
Penny Talynne Way, Cleveland
David James Why, Columbus
Christopher John Wible, Dayton
Anna Marie Woodson, Willowick
Sandra Lynn Yates, Middleburg Heights
Matthew Ray Yerkey, Salem
Jau Uon Yu, Columbus

College of Humanities

Dean: G. Micheal Riley

Bachelor of Arts

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Douglas John Alford, Norwalk
Suzanne L. Amra, Cleveland Heights
Harold James Anderson III, Fostoria
Portia Marlene Anderson, Columbus
Lynda Atriano, Columbus
Cortney Elizabeth Baird, Bay Village
Melinda Kay Bako, Akron
Cynthia Lynn Balzer, McMurray, PA
Suzanna Christine Barth, Columbus
James McDowell Beale, Pataskala
Deborah Lynne Beckerich, Kettering
Karin M. Beehler, Cliffside Park, NJ
Barbara Ann Bender, Columbus
Gregory Thomas Betscher, Mansfield
Amy Jo Blackstone, New Concord
Dianne Kay Blankenbaker,
Upper Arlington
James Kevin Borland, Marion

Amy Louise Bowman, Mansfield
 William David Branstool, Utica
 Terry Layne Brodhag, Columbus
 Brenda Renee Brown, Lima
 Mary Anne Brown, Columbus
 Bonnie L.B. Butcher, Columbus
 Lauren Holly Candela, Cleveland
 Jennie Babcock Chapman, Columbus
 Jessica Jennings Clark, Fort Knox, KY
 Lynette Marie Cline, Warren
 Daphne Deanne Coe, Newark
 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
 Ellen Elizabeth Damko, Sandusky
 Thomas Michael Dee, Cleveland
 Susan Louise Deister, Columbus
 Clorinda Theresa DelGigante,
 Lindenhurst, NY
 Brandy Kaye Denisco, Worthington
 Ethan Robert Dicks, Columbus
 Anne Marie Drake, Columbus
 Ondrea Alexis Dutro, Cincinnati
 Paul Steven Eisenstein, Bexley
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 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
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 Mark Sigmar Gutentag, Pepper Pike
 Angela Louise Guzzo, Columbus
 Melissa Louise Hart, Columbus
 Stephanie Jeanne Herwick, Wadsworth
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 Laurel Lee Hodory, Cincinnati
 Shea Louise Holtzman, Grove City
 Thisbe 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 Knapp, Sylvania
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 Cynthia B. Logan, Ashville
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 Ducksbury, MA
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 Jozefa H. Mentrak, Columbus
 Valerie Lynn Merklin, West Jefferson
 Trenton Douglas Merricks II, Newark
 Kristine Maria Meyer, Circleville
 Julie Ann Miller, Willoughby Hills
 James Richard Mitchell, Cuyahoga Falls
 Thomas Mlakar, Lorain
 Kwyn L. Moffitt, Zanesfield
 Michelle Yvonne Molano, Strongsville
 Kara Ann Morgan, Waynesfield
 Jodi Beth Morrison, University Heights
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 Stephen Robert Murray, Fredericktown
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 Erin Lee Noviski, Columbus
 Margaret Mary Olsen, Broadview Heights
 Juyong Pae, Dayton
 Tamarah Therese Parson, St. Thomas, VI
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 John Gregory Patroulis, Toledo
 Benjamin Edward Patterson, Dublin
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 Ifigenia Polychronis, Kettering
 Kris Reed Poppe, New Bremen
 D. Scott Powell, North Canton
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 Kimberly Diane Ramey, Lexington
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 Diana Lynne Ricci, Newtown Square, PA
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 David William Riegel, Greenville
 Patricia Ann Rieman, Wooster
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 John Patrick Romano, Lancaster
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 Kimberly Ann Salamon-Smith, Richfield
 James Robert Schaefer, Columbus
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 Gilan A. Sharaf, Westerville
 Stephen John Shaw, Columbus
 Kenneth Richard Sibley, Columbus
 Jonathan Paul Simon, West Orange, NJ
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 James Michael Smith, Columbus
 Scott David Smith, Piqua
 Michael J Songer, Galion

John J. Spanik, Columbus
 Martha Kay Stahl, Reading
 Arthur Grant Stephens, Columbiana
 Sara Christine Stoner, Galion
 John David Sullivan, Pickerington
 Elizabeth Gay Szames, Columbus
 Sharyn Talbert, Columbus
 Shalu Tandon, Marion
 Beth Jo Terango, Euclid
 Lisa Anne Thomas, Charlotte, NC
 Christopher Ray Thompson, Columbus
 Wade Hoffman Thorson, Pataskala
 Martin Thurn, German Village
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 John Michael Tsironis, University Heights
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 Mayfield Heights
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 Katherine Ellen Walmsley, Sylvania
 Mark Milo Walter, Norwalk
 Diana Ross Webster, Columbus
 Mark David Wigglesworth, Columbus
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 Alicia Wolph, Fostoria
 Lan Sze Wong, Worthington
 Thomas M. Wood, Marion
 Thomas Franklin Woodbury, Lima
 Dorothea 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

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 John Merrit Ernst, Cincinnati
 Thomas Stewart Fanning, Columbus
 Tamara Marie McCoy, Columbus
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 Nicholas Nissley, Hershey, PA
 Paul Nathan Spahr, Forest Park
 Jennifer Lee Spanfellner, Gibsonburg
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Bachelor of Science

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Richard Andrew Carmean, Columbus
 Edith Chang, Columbus
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 South Dennis, MA
 Timothy Colin Crawford, Reynoldsburg
 Lorna Beth Crimmins, Bel Air, MD
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 Cynthia Jean Keaton, Gahanna
 Christopher Glenn Keck, Bay Village
 Kang San Kim, Springfield, VA
 Joseph Lee Koen, Alliance
 Brenda Lee Kratochvil, Chesterland
 Robert Thomas Lee, Mentor
 Christopher Martin Lott, Upper Arlington
 Sean William Lynd, Cincinnati
 Suzanne Marie Manning, Columbus
 Kyle James Maurer, Rock Hill, SC
 Thomas Dean McElwee, Galena
 Amy Susan McKee, Chesterfield, MO
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 Thomas Wesley Miller, Springfield
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 Garvin B. Nickell, Cincinnati
 Dennis Paul O'Donovan, Cincinnati
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 Fredrick Mark Reeve, Upper Arlington
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 Laurie Michael Takacs, Painesville
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 Martin Thurn, German Village
 Michael Alan Titko, Ashtabula
 Scott Bryan Tofil, Austintown
 Dennis R. Unver, Canton
 Andrew Ricardo Vargas, Norwalk
 Lori Ann Waugh, Lancaster
 Penny Talyne Way, Cleveland
 Athena Yiamouyiannis, Delaware

College of Social and Behavioral Sciences

Dean: Joan Huber

Bachelor of Arts

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 Ontario, Canada
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 Karey Marie Ancil, North Canton
 Lori Sue Andrews, Columbus
 Margaret Harriet Antill, Tiltonsville
 Richard Gene Archer, Jr., Columbus
 Megan Marie Arcello, Massillon
 Krista Lee Argo, Marysville
 Randy Douglas Arthur, Toledo
 Shari Lynette Ayers, Baltimore
 Jeffery Allen Baggs, Columbus
 Jennifer Leigh Barrows, Paoli, PA
 Allan Rex Baumgartner, Eastlake
 Jennifer May Beach, Chagrin Falls
 James McDowell Beale, Pataskala
 Jeffrey Alan Belanger, Warren
 Robert Paul Benner, Buffalo, NY
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 Mary Anne Betz, Paris
 Jeffrey Gene Blakeman, Johnstown
 Deborah Renee Bloom, Canton
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 Sondra Bernadine Blue, Richwood
 Edward Borowski, Northampton, MA
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 Jamey Marie Boyle, St. Clairsville
 Tod Hunter Boyle, Kent
 Jeffrey Gehring Brehmer, Columbus
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 Cynthia Lette 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 Burgdorf, 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
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 Robert Edward Calesaric, 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 Aneillo Cerreto, Galion

Christopher David Chapman,
 Painesville Township
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 Anurita Chaudhuri, Joliet, IL
 John Tilman Childs, Barnesville
 Amy M. Christen, Toledo
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 Gary Gray Clift, Brunswick
 Elizabeth Ann Clough, Shelby
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 Heather Louise Coen, Wooster
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 Mark Allen Cohen, Pepper Pike
 Christopher Collings, Upper Arlington
 Carolyn Laura Collins, Columbus
 Mark Robert Connors, Columbus
 Mary Ellen Coogan, Worthington
 Wanda Jean Corner, Columbus
 Mark Edmond Coughlin, Columbus
 Sally Cox, Forest Park
 Shawn Crabtree, Marion
 James Scott Creed, Baltimore
 Rod C. Crider, Lima
 Kimberly Ann Cullen, Sandusky
 Amy GERALYN Currin, Montgomery
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 Michele Eileen DeCosmo, Barrington, IL
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 William Paul DeMora, Euclid
 John Lowell Detrick, Delaware
 Ann Elizabeth DiGirolomo,
 Island Heights, NJ
 Jonathan Douglas Dozer, Columbus
 Tania Elaine Dudley, Mary Esther, FL
 Kimberly Ann Dудte, 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
 Rick Stephen English, Madison
 Debra Lynn Erickson, Columbus
 Thomas Sears Ernest, Shaker Heights
 Jennifer Susan Falk, Cincinnati
 Michele Marie Farrell, Columbus
 David Alan Farrow, Columbus
 Jennynan Feen, Columbus
 Matthew Robert Ferguson, Cincinnati
 Sandy Noreen Few, Dayton
 Vickie Jeannette Fitzgerald, Columbus
 Patricia Michele Flanigan, Columbus
 Thomas Edwin Foss, Huron
 Elizabeth Regina Fox, Warren
 Margaret Earls Frank, Cincinnati
 Rachel Colleen Frank, Chagrin Falls
 Melissa Ann Freeman, Newark
 Martin Van French, Parkersburg, WV
 Scott Christopher Frost, Columbus
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 Manabu Fujii, Tokyo, Japan
 Brian Scott Gabbard, Lebanon
 Deanna Lynn Gach, Elida
 Laura Anne Gallagher, Westlake

Jason Anthony Gambone, Canton
 Jodi Lynn Garner, Moundsville, WV
 Lee Gasaway, Columbus
 Steven Jay German, Moreland Hills
 Earl Laurence Gertsma, Berea
 Susan Lee Gibson, Coshocton
 Terrance Patrick Gillen, Odgensburg, NJ
 Joshua Aaron Ginzler, Hubbard
 Pamela Joanne Given, Wadsworth
 Roger Anthony Glenn, Springfield
 Mark William Gogel, Perrysburg
 Stephanie A. Good-Riddick, Columbus
 Paul Arnold Granzier, Jr., Cleveland
 Charles McKinley Greenlee, Cincinnati
 Jordan David Greenwald, Canton
 Julie Ann Grimm, Olmsted Township
 Mattie Jean Grooms, Columbus
 Cheryl Wendy Gross, University Heights
 Lisa Ann Groves, Fostoria
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 Russell John Harvey,
 Sault Sainte Marie, MI
 Melinda Ann Haskins, Cincinnati
 Kelli Danielle Hatfield, Hilliard
 Victoria Ann Hausfeld, Dayton
 Aaron Alan Haven, Wooster
 Ann Elizabeth Haynes, Fairborn
 Michelle Ann Heider, Columbus
 Gregory Clyde Hendersson,
 New Philadelphia
 Janet Marie Hendricks, Columbus
 Kurt Sheldon Henne, Napoleon
 Mark Aaron Hiatt, Marietta
 Dawn Marie Higgins, Brookfield
 Beth Marla Himmel, Sylvania
 Steven Gregory Hobbs, Columbus
 Sophia Valentina Holliger, Warren
 Deborah Houser, Upper Arlington
 David Wayne Housman, Loveland
 David Marshall Huff, Worthington
 Kurt Allen Huntsinger,
 Downers Grove, IL
 Andrea Hurtado-Mejía, Worthington
 Johan Jay Isaly, Marion
 William J. Jingo, Canton
 Kimberly Ann Jirsa, Maple Heights
 William Rufus Johnson, Lima
 Joanne Sue Sicheri Jones, Reynoldsburg
 Tammy Lynn Jones, Dublin
 Verna Marie Jones, Columbus
 Ami Ann Kann, Beachwood
 Katrina Marie Kehr, Toledo
 Nicole Linda Kelsey, Dayton
 Marianne Elisabeth Kettman, Hamilton
 Edward Vincent Kiger, Bogota, Colombia
 James Philip Kimball, Wood Ridge, NJ
 Lynn Marie Kinney, Columbus
 Mary MJ Kirchner, Westlake
 Janice Lynn Klaum, Cuyahoga Falls
 Daniel John Kremchek, Cincinnati
 Elizabeth Ann Krieger, Worthington
 Gary Duane Lampkin, Columbus
 Kimberly Diane Larson, Columbus
 Stephen Martin Lasko, Newton Falls
 Bryan Andrew Lee, La Rue
 Mary Judith Leugers, Cincinnati
 Diane Licklider, Columbus
 Heidi Sue Limbacher, Strasburg
 Susan Elaine Long, Chillicothe
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 Leslie Jennifer Lowy, Lyndhurst
 Helen Cecilia Mackin-Prestigomo,
 Maple Heights
 Lori Ann Mager, Toledo
 Jill Marie Mahlie, Wintersville
 Linda Marie Malloy, Rocky River
 Kristen Elizabeth Manos, Ashland
 Linda Carolyn Manos, Cleveland
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 Maria Titika Matheos, Akron
 Kerry Francis McCafferty, North Olmsted
 Kelley Anita McClendon, Columbus
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 Steven Joseph McCorkle-Reed, Columbus
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 Michael Thomas McGuinness,
 Reynoldsburg
 Megan Ann McMurray, Toledo
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 Jeffery Lee Michael, West Carrollton
 Mark Allen Miller, Chagrin Falls
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 Julianne Marie Mullen, Lima
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 Moreland Hills
 Thomas Edward Mutti, Mansfield
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 Eric Gray Myers, Akron
 Mark Thomas Myers, Westerville
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 Great Falls, VA
 John P. Nelson, McKeesport, PA
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 Rebecca Louise Nice, Columbus
 Kammy Sue Nierescher, Columbus Grove
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 Michael James O'Connor, Columbus
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 Lauri Anne Olsen, Dillsburg, PA
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 Julia Anne Paxton, Athens
 April C.E. Payton, Des Moines, IA
 Yvette Edith Peeler, Mingo Junction
 Geniene Marie Pernetto, Columbus
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 Michael Kenneth Provenza, Lorain
 Gailanna Gariand Purdin, Russellville
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 Michael Joseph Quinn,
 Goldens Bridge, NY
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 Paul Michael Reali, Fairview Park
 Laura Alice Redman, Wooster
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 John Robert Reeves, Hays, KS
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 Jill Karen Rembrandt, Lyndhurst
 Charles William Ress, Jr., Columbus
 Steffany Michelle Ringenberg, Columbus
 Kevin Patrick Robbins, Columbus
 Mark Joseph Robinson, Columbus
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 Chalice Arthur Rolsten, Dayton
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 Douglas Raymond Roughton, Defiance
 Elizabeth Ann Roycraft, Mansfield
 Heather Rachelle Ruland, Columbus
 Michael Fredrick Rutherford, Sarahsville
 Mark Andrew Sagan, Columbus
 Rosemary Ross Santillo, Youngstown
 Carol Elizabeth Savage, Upper Arlington
 Brian Lee Schleppei, Groveport
 David Allen Schrader, Brunswick
 Mary Patricia Schuneman, Herndon, VA
 Lori Lynn Schwendeman, Lancaster
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 Barry Glen Sheets, Gallipolis
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 Leonard William Smith, Grafton
 Richard Scott Smith, Sylvania
 Timothy Charles Snyder, Massillon
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 Leigh Anne Stahl, Centerville
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 Jasna Stankov, Mansfield
 Monica J. Stavros, Westland, MI
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 Eileen Teevin, Westerville
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 Terri Jill Thomas, Hamilton
 James Matthew Troth, Bellefontaine
 Barbara Ellen Tully, Circleville
 Bridget Irene Tyznik, Marble Cliff
 Brian Quinn Vanik, Columbus
 Joseph John Varckette, Ashtabula
 Sonya Arlene Veloff, Westerville
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 Long Branch, NJ
 Donald Robert Wagner, Akron
 Jay Harry Wagner, Findlay
 Joseph Perry Wagner, Englewood
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 Carmen Elyse Watts, Garfield Heights
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 Curtis Wade Weatherbee, Monclova
 Linda Ann Webber, Lorain
 Harold H. Weber, Jr., Greenport, NY
 David Joseph Weisgerber, Lima
 Timothy Thomas Weller, Whitehall
 Rodney Lamont Wheeler, East Cleveland
 Shelly Anne White, Ashland
 Mark David Wigglesworth, Columbus
 Joanne Louise Willemse, Kettering
 Bradford Rex Wilson, Columbus
 Shawn Michael Winterich,
 Cleveland Heights
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 Tamara Lee Wood, Troy
 Steven Andrew Worth, Pittsburgh, PA
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 Tammy LouAnn Wurthmann, Mansfield
 Wendy Kay Wyss, Kidron
 Philip Lee Yetzer, Columbus
 Tracy Ryan Yoesting, Bellefontaine
 Dawn Elisabeth Young, Toledo
 Matthew Robert Young, Centerville
 Randi Lynn Young, Worthington
 Christine Marie Youngs, Galloway
 Julee Marie Zabik, Warren
 Gregory Zackeroff, Warren
 David Anthony Zele, Euclid
 Cyril Michael Zibrik, Youngstown
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 Kimberly Renee Zimmerman, St. Paris

Bachelor of Science

Beth Ellen Albrecht, Loveland
 Daniel Van Alexander, Napoleon
 Suzanna Christine Barth, Columbus
 Robert Becerra, San Antonio, TX
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 Sanjay Kris Bhatt, Columbus
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 Elizabeth Jane Bissett, New Philadelphia
 Thomas Keith Boger, Massillon
 Edward Borowski, Northampton, MA
 Brian Christopher Burrier, Columbus

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 Michael Andrew Coates, Beavercreek
 James Lewis Coon, Oxford
 Stephen Lee Crites, Jr., Alliance
 Michael Joseph Cronley, Columbus
 Julie Marie DasVarma, Akron
 Paul Michael Davis, Columbus
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 John Merrit Ernst, Cincinnati
 Richard Daniel Evans, Randolph, NJ
 Erik Anthony Fisher, Chagrin Falls
 Calandra Diane Frysinger, Van Wert
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 Curtis J. Goodnight, Cecil, PA
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 Andrew Jay Higgins, Mt. Sterling
 Nancy Eleanor Hill, Columbus
 Kari Lynn Johnson, Beavercreek
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 Karen Ann Kehres, Troy
 Stephen Louis Keller, Columbus
 Amy Bronwyn Kendall, Salem
 Rhea Michelle Khavari, Columbus
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 Karen Marie LaFace, Pittsburgh, PA
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 Patrick Dominic Losacco, Columbus
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 Marianne McDermott, Uniontown
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 Tillmon Miller, Sandusky
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 Todd Matthew Owlett, Milford
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 New Haven, CT
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 James Fritzen Taylor, Upper Arlington
 Michael Charles Taylor, Port Clinton
 Randall Stephen Thomas, Stillwater, NY
 Duane Eliot Trabits, Avonmore, PA
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 Richard Dane Wright, Groveport
 Guy Edward Zuelzke, Fostoria

Certificate of Study in Latin American Studies

Connie Lynn Byler, Middlefield

School of Journalism

Bachelor of Arts in Journalism

Carl Anthony Albright, Greensburg
 Brian Todd Armentrout, Columbus
 Scott Bradley Aronoff, Toledo
 Curt David Avery, Athens
 Bonnie Lynne Bajorek, Wadsworth
 Kelly Jo Barnett, West Jefferson
 Lisa Kay Baumgardner, Chardon
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 Stefanie Lynn Belcher, Canton
 Frederick Bermudez, Bossier City, LA
 Julia Lee Bierley, Upper Arlington
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 Karla Westendorf Boggs, Augusta, GA
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 Kevin Mark Bonnay, Richmond Heights
 Brian Paul Borgert, Dayton
 Lara Marie Bradley, Columbus
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 Jay Randall Brown, Medina
 Karen Diane Brown, South Euclid
 Crystal Denise Burnett, Akron
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 Catherine Marie Carter, Cleveland
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 Sarah Lenore Christian, Chagrin Falls
 Kari Michelle Cline, Strongsville
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 Elizabeth E. Collins, Boston, MA
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 J. Kevin Douglas, Thornville
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 Lee Ellen Evans, Springfield
 Lisa Marie Federico, Strongsville
 Bruce William Fehlan, Wellington
 Lisa Ann Fitch, Cincinnati
 Dana Lynn Foor, North Ridgeville
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 Alexander Ward George, Long Branch, NJ
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 Thomas Jerome Higgins, Amherst
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 James Alan Jacobs, Columbus
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 Pamela Renee Jones, Columbus
 Michele Marie Kanche, Columbus
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R. Nicholas Kellis, Lima
 Bryant William King, Springfield
 Patricia Marie Kinneer, Columbus
 Lisa Luella Kirchner, Pittsburgh, PA
 Marjorie Lynn Kochan, Avon Lake
 Kimberly Ann Krause, Allison Park, PA
 David Brian Levin, Toledo
 Barbara Lynne Levine, Bexley
 Mary Margaret Lilko, Youngstown
 Paul David Lindsay, Maumee
 Stacey Leigh Lowman, Alliance
 Theresa E. Lux, Columbus
 Valerie Susan Mader, Silver Lake Village
 Kristen Suzanne Martz, Toledo
 Thomas John Massar, Columbus
 Denise Renée Mast, Canton
 Richard Thomas McAninch, Columbus
 Catherine Marie McClorey, Cincinnati
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 Rodney Keith McDaniel, West Carrollton
 Richard Patrick McGivern, Boardman
 Kyle Patrick McQuaid, Strongsville
 Stephen Robert Mears, Sandusky
 Michael Anthony Melaragno, Grandview
 Meredith Ann Melragon,
 Upper Arlington
 Valerie Metsika, Columbus
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 Traci Alison Miller, Reynoldsburg
 Kathleen Rowe Montag, Westerville
 Scott Clark Morey, Warren
 James Arthur Morrison, Parma
 Andrea Maria Muto, Akron
 Jennifer Lynn Nelson, Cincinnati
 Patti Anna Nickerson, Cape Porpoise, ME
 Nadeana Elizabeth Nugent, Cincinnati
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 Michele Lynn Ohl, Mansfield
 William McCoy Outlaw, Cold Spring, NY
 Michelle Marie Pryor, Tiffin
 Nicole Elizabeth Quelette, Galena
 Thomas James Ream, Rocky River
 Stephanie Lynn Reiber, North Canton
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 Mary Beth Richardson, North Olmsted
 Tracey Marie Riley, Zanesville
 Marinés Rivera, Columbus
 Beth Ellen Ross, Beachwood
 Melissa Louise Rossi, Akron
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 Margaret Mary Rutledge, Cincinnati
 Timothy Joseph Ryan, Bowling Green
 Holly Elizabeth Sauer, Circleville
 Jeffrey Scott Schleifer, Pepper Pike
 Sandy Jonelle Schweitzer, Baltimore
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 Todd Allen Sedmak, Geneva
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 Roderick L. Sherrill, Dover
 Laurie Marie Sietatycki, Brunswick
 Kristin Michelle Sindiog, Cincinnati
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 Eric Scott Smith, Cuyahoga Falls
 Rebecca Crandall Snyder, Centerville
 Mark David Somerson, Upper Arlington
 Susan Jane Southard, West Liberty
 Michael Alan Sponhour, Canton
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 Jamie Anita Turner, Shaker Heights
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 Athens, Greece
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 Amy Sue Weirauch, Napoleon
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 Jill Ann Wolfram, Worthington
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College of Agriculture

Dean: Frederick E. Hutchinson

Bachelor of Science in Agriculture

Daniel Wesley Aldrich, Solon
 Javelyn Renee Baylis, Cleveland
 Melanie Lee Bene, Mt. Vernon
 Paul Franklin Best, North Canton
 Mark Stephen Bichsel, New Philadelphia
 Benjamin Paul Black, West Milton
 Jessie Lynn Born, Amherst
 Robert Arthur Bouic, Ostrander
 Dana Brezny, State College, PA
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 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, Galion
 Laura 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 Shinault Day, Columbus
 James Michael DelPrince, Ashatabula
 Debora Lynn Demmitt, Troy
 Keith Richard Dirkson, 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
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 Andrew Allan Farley, Jackson
 Michael James Fennig, Coldwater
 Daniel Stephen Franek, Chagrin Falls
 Sandra Ann Fravel, Springfield
 Julie Kathleen Friesen, Cincinnati
 Rebecca Stirling Gardner, Gates Mills
 Michael Louis Gastier, Milan

Marc Thomas Gedert, Curtice
 Curt Allen Geron, Springfield
 Brant Eric Giere, Brecksville
 Joan Ellen Gish, North Lawrence
 Deborah Jean Glauer, Loudonville
 Michael Jones Guest, Kent
 Kristin Basel Guthrie, Marion
 Kirsten Handke, 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, Weston
 Julie Kay Hoover, Shelby
 Robert Hostetler, Columbus
 Mark Edward House, Camden
 Susan Jennifer Jenkins, Wooster
 Bart Edwin Johnson, Delaware
 Robert N. Jones, Huron
 Tonia Marie Jones, Lorain
 Larry Alan Keister, Springfield
 Jay Allen Kill, St. Marys
 Teri Ann Kraus, Medina
 Dean John Krukemyer, Pemberville
 Mary Jeanette Lausin, Thompson
 Ronald Allen Leach, Lynchburg
 Robert C. Little, Delaware
 Kimber Laurie MacKenzie, Columbus
 William Douglas Mainzer, Norwalk
 Martin Marks, Columbus
 Harold Jeffrey Martin, Millersport
 Keith D. McGoldrick, Hamilton
 Gary Bryan McNeal, 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 Schissel, Cincinnati
 Mary Rose Schornak, Jamestown
 Nancy Yvonne Secrest, Caldwell
 Kimberly Ann Skrabec, Medina
 Zrinka Katherine Slat, Columbus
 Thomas John Sloma, Jr., Sandusky
 Randy Jay Somerville, Columbus
 Scott Vincent Spasiano, Westerville
 Laura Beth Stiles, Marysville
 Lora Jean Stike, Newbury
 Joanne Elizabeth Stokes, Jefferson
 Todd Edward Stoll, Marshallville
 Richard Bradlee Swank, Lewisburg

Dwight Raymond Tingley, Mt. Gilead
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New Philadelphia

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Daniel Dale Walker, Lynchburg
Kirk Georges Walker, New Vienna
Lisa Kay Wallace, Worthington
Barry Wallace Ward, Urbana
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Diane Sue Warns, Perrysburg
Scott McClelland Weaver, Cleveland
Mary Elizabeth Welling,
New Philadelphia
Gregory Alan Wells, Marysville
Evelyn Price Williams, Hilliard
Pamela Marie Williams, Shaker Heights
William Walter Williams, Sheffield
Robert Chris Williamson, Defiance
Michael Wayne Wolfe, Baltimore
David James Wornstaff, Ashley
Gary Lee Wortman, Zanesville
Richard Mark Zehentbauer, Hanoverton

Bachelor of Science in Food Science

Tracey LeeAnne Britton, Columbus
Anahita Keyhani, Usetabad, Tehran, Iran
Emily Rose Kiracofe, Warren
Eric Carl Perkins, Dayton
Linnea Katherine Stromberg, Beaver Creek

Bachelor of Science in Nutrition

John Kevin Bailey, Marysville
Mark Anthony Russell, West Jefferson

School of Natural Resources

Bachelor of Science in Natural Resources

Troy Alan Abram, Columbus
Brenda Aileen Adams, Toledo
Steven Edward Ahlbeck, Columbus
Kevin Charles Assenheimer, Bucyrus
Juliet Wyleen Ballinger, Cincinnati
John Farrell Bamman, Sylvania
Steven Christopher Barry, Lima
Craig Dean Brechbuhler, 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 Grasa, Lorain
Lucinda Gay Harper, Aiken, SC
Brian Hugh Harroff, Gahanna
Joseph John Hassman, Hillsboro

Cynthia Lee Hawkins, Medina
Ronald Allen Joseph, Columbia Station
Glenn Daniel Klingler, Lima
Kenneth Joseph Kulka, Mansfield
Allen Eugene Lea, Ashley
William Earle Mack, Collins
Craig Thomas Mallison, Bellbrook
Douglas Michael May, Copley
Craig Scott McWherter, Delaware
Andrew J. Montoney, Orient
Dennis Lee Morehart, Canal Winchester
Scott Traylor Morris, Worthington
Jeffrey Mowka, Toledo
Matthew Lee Notziger, Wauseon
Yetty Marie Peiffer, Greenville
Elizabeth Margaret Petree, Columbus
Allen 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

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Stephen Stanly Beer, Mansfield
Michael G. Blau, Euclid
James Leroy Borton, West Salem
Michael Dean Bowman, Creston
Scott Anthony Briggs, East Sparta
Kari Ruth Butts, Coshocton
Jeffrey Robert Carson, Rocky River
Gary Howard Chambers, Graytown
Therese 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 Frederick, Milan
Eric William Frega, Valley City
Douglas Gerald Goodman, Cardington
Micah Timothy Hartong, Carrollton
Frederick Nicholas Hergert IV,
Ringgold, PA
Matt Ryan Hewitt, Apple Creek
Michael Gordon Hodgins, Mentor
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Carolyn Marie Immel, Burbank
Troy Scott Ingle, Fletcher

Michael Lee James, Vienna
Barbara Jean Jeffery, Munnhall, PA
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Dennis Mark Kover, Warren
Amy Jo Leskey, Glenmont
Matthew James Lesko, Salem
Ann Denise Libben, Port Clinton
Howard Chester Loel III, Chillicothe
David Edwin Lytle, Litchfield
Robert Bryan McMahan, Richmond
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 Moyers, Shreve
Shannon Marie Mullins, Munroe Falls
Dean Edward Myers, Carey
Mark Douglas Niemczyk, Apple Creek
Donna Marie Noyes, Wooster
Alice Elizabeth Orchard, Danville
Scott Michael Pfeiffer, Ashville
Christine Leigh Probasco, Lancaster
Randy Ray Raber, New Philadelphia
Jeffrey Robert Rak, Strongsville
Elizabeth Elaine Rick, East Canton
Scott Thomas Ripley, New Philadelphia
Sheila Marie Riser, Barnesville
James Britton Roberts, Lyndhurst
Albert Matthew Roth, Brimfield
Kenneth Raymond Schuck, Ashland
Brian Allen Schwartz, St. Mary's
Kenneth Alan Schwarz, 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 Vasulka, 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
Marie Antonette 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. Adkins, Columbus
Rodney L. Adkins, West Carrollton
Michelle A. Agresta, Steubenville
Mónica Maria Aguirre, Columbus

Gary Wayne Aliff, Jr., Dublin
 Randall Walter Alvarez, Marysville
 Renee Rose Ambrose, Sunbury
 David L. Anderson, Moreland Hills
 John Ivan Anderson, Jr.,
 New Philadelphia
 Robert L. Anderson, Wilmington
 Scott Allen Anderson, Marion, IA
 Charles Edward Armstrong, South Point
 John D. Austin, Columbus
 Dale Dyal Baehr, Upper Arlington
 Richard James Baerwaldt, Findlay
 Julie Ann Ball, Reynoldsburg
 Kristen Kay Ballard, Lima
 Edith Lynn Bargar, Pittsburgh, PA
 Philip A. Barker, Baltimore
 Heidi Kathryn Barlow, Cincinnati
 Daniel J. Barnett, Chagrin Falls
 Anthony James Barnhart, Springfield
 Scott William Baugher, Conneaut
 Tina K. Bavelis, Columbus
 Kenneth William Baytos, Columbus
 Amy Rebecca Beam, Wilmington
 Gene William Beard, Cincinnati
 John Charles Beck, Marietta
 Jackie Sue Bedilion, Marietta
 Pratima Pattathan Bekal, Columbus
 Eric J. Bell, Upper Arlington
 Kimberly Ann Bell, Sylvania
 Christopher John Belpuis, Spring Valley
 Amy Jo Benkel, Dayton
 Lori Anne Bennett, Chagrin Falls
 James Phillip Bentley, Crestline
 David L. Berkley, Columbus
 Jeffrey Scott Berlowitz, Rochester, NY
 Steven Bruce Berman, Cleveland
 John Richard Beshuk, Pataskala
 Bradley Curtis Biller, Zanesville
 Stephen Robert Bing, Maumee
 Christopher A. Binkley, Ada
 Donald Alan Birchler, Baltimore, MD
 Gary Franklin Blackburn, Milford
 Dawn Marie Blackwell, New Philadelphia
 Andrew Alan Blank, Columbus
 John Carrol Blue, West Jefferson
 Stephen John Boback, Cincinnati
 Janet M. Bober, Columbus
 Martin Dean Bober, Cleveland
 Michael Anthony Bodanza,
 Newburgh Heights
 Maria Rose Bodnar, Rocky River
 Jeffrey Scott Boerner, Massillon
 Jeffrey James Boothman,
 Williamsburg, VA
 David Edward Bowditch, Fairview Park
 Joseph Tyger Bowers, Columbus
 Kenneth E. Boyd, Bellville
 Gregory Scott Boyer, Jackson Center
 Stephanie Jill Boyer, Columbus
 Ryan Douglas Braet, Beavercreek
 Sheryl Lynn Brahler, Columbus
 Lori Renee Brenner, Reynoldsburg
 Christopher Charles Bresnahan, Powell
 James Michael Brinker, Greenville
 Mary Elizabeth Broderick, Tallmadge
 Daniel G. Bronish, Strongsville
 Melissa Irene Brooks, East Liverpool
 Gary Daniel Broughman, Columbus
 Bradley Joseph Brown, Kettering

Reid T. Brown, Middletown
 Robert Melvin Brown, Youngstown
 Nancy Wilson Brownell, Upper Arlington
 Michael Scott Browning, North Canton
 David Patrick Brubaker, Greenville
 Lori Ann Brutchey, Newark
 John Joseph Bruzzese, Columbus
 Lawrence Andrew Budd, Columbus
 Lisa Kathleen Burbick, Salem
 Keith Alan Burnard, Columbus
 Brian Scott Burris, Cambridge
 Michael James Bussard, Reynoldsburg
 Lisa Ann Butterfield, Scio
 Brian Ray Butts, Indianapolis, IN
 Karen Arlene Byerly, Hannibal
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 Malaysia
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 B.A. (University of Toledo)
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 B.S. (John Carroll University)
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Lori Ann Little, Ashville

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Kurt Alan Pesta, Mingo Junction
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William Edward Renz, Columbus

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Samuel Edward Taylor, West Unity

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B.S. (Xavier University)

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Lorene Marie Grabmeier, Toledo
Valerie Anne Maseck, Bristolville
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Lisa Christine Petrov, Elyria
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Michelle Renae Hicks, Portsmouth
Elizabeth Marie Karkut, Naples, FL
Andrea Lynn Moskerintz, Canal Winchester
Ailisa Sael Shapiro, Cincinnati

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Dean: Donald P. Anderson

Bachelor of Science in Education

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Aggelici A. Agganis, Lancaster

Pamela Jeanne Ahrens, Minster
 Kaye Dianne Alban, Newark
 Jacqueline Ann Albanese, Eastlake
 Rex William Allison, Columbus
 James Edward Arens, Jr., Lancaster
 Christopher Joseph Armstrong,
 Reynoldsburg
 Sharon Lee Atchison, Columbus
 Steven Lowell Ayers, Forest
 William Langan Badger, Genoa
 Michele Lynn Baird, Shelby
 Denise Lora Bakenhaster, Columbus
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 Kathleen Ann Beatty, West Chester
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 Todd Anthony Bell, Middletown
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 Laura Lee Crawford, Beavercreek
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 Melanie Anne Davis, Brookville
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 John Edward Dempsey, Youngstown
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 Susan Denise Dickerson, Amherst
 Julie Kay Diebley, Shelby
 Dione Marie Domagala-Balzano,
 Carmel, IN
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 Susan Disbennett Downey, Gahanna
 Lois Jean Earley, West Lafayette
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 Paula Jo Ehrle, Springfield
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 Beth Ann Eibling, Ada
 Elizabeth Esther Elpiner, South Euclid
 Laura Lynne Elsea, Columbus
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 Jennifer Jo Emmons, Marion
 Kari Lee Engen, Newark
 Gina Marie Erhart, Ottawa
 Julia Katherine Essman, Orient
 Christine Marie Etkorn, Delphos
 Suzanne Elizabeth Evans, Granville
 Barbara Ilene Feit, Wayne, NJ
 Tara Michelle Feldkamp, Amherst
 Ted Eric Ferguson, Powell
 Lisa Jo Finley, Medina
 Anne Marie Fiore, Warren
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 Shannon Douglas Fitch, Hudson
 Jeffrey Scott Flaughter, St. Marys
 Nancy Anne Fleming, Delaware
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 Scott Eugene Forney, Forest
 Kevin Allen Fox, New Holland
 Jennifer Ann Freeman, Mayfield Heights
 Sara Lynn Freeman, Caledonia
 Joann Friend, La Rue
 Sharon Lynn Frye, Gahanna
 Darren John Furno, Columbus
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 Silvertown, OR
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 Rebecca Lynn Haenel, Willoughby
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 Brigitte Ann Hall, Columbus
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 Michael Duane Hamilton, Lima
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 Leslie Beth Harlow, Lima
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 Pamela Jo Hart, Springfield
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 Wendy Jean Hechler, Dublin
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 Dana Jane Heisel, New Bloomington
 Joetta Sue Heldman, Bluffton
 Margaret Faith Helm, Broadview Heights
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 James Stephen Hering, Marion
 Matthew Reed Herr, Mansfield
 Kimberly Sue Higgins, Gahanna
 Holly A. Hight, Vermilion
 Daphne Lynn Hill, Dallas, TX
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 Lorraine Weaver Holiday, Nevada
 Cynthia Lynn Howland, Columbus
 Calvin Dennis Huck, Waterford
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 Tracy Lorraine Hughes, Tiffin
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 Lawrence Cooper Hurtubise, Columbus
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 Jennifer Lynn Kennedy, Upper Sandusky
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 Cynthia Ann Klosterman, Lima
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 Lisa Annette Luedeker, Findlay
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 Ontario, Canada
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 Darren Dan Majoy, Sandusky
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 Mark Allen Mayes, Bucyrus
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 Columbus
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 Bonnie Arlene McCoy, Cincinnati
 Lisa Louise McCullough, Kenton
 Dawn Patrice McDonald, Heath
 Kathleen Joan McGrath, Ashland
 Tracy Sue McKee, Upper Sandusky
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 Jennifer Lynn Meaux, Centerville
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 Diane Marie Merkel, Columbus
 Lori Lynn Meshula, Canfield
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 Christina Marie Miles, Gahanna
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 Wendelin Miller, Pataskala
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 Laura Allison Mills, Port Clinton
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 Jennifer Ann Mitchell, Canal Winchester
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 William Douglas Moore, Toledo
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 Scott Allen Nichols, Carrollton
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 Amy Lelia Noltemeyer, Columbus
 Barbara Lee Norton, Wapakoneta
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 Teresa Marie O'Brien, Bryan
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 Miguel Angel Perez, Columbus
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 Robert Alexander Petroff, Canton
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 Karyn Wesley Pittenger, Shelby
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 Karen Ann Poltor, Toledo
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 Randall David Reese,
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 Sarah Beth Riegel, Columbus
 Leah Renee Riehm, Wadsworth
 Tamara Jo Roades, Hillsboro
 Connie Sue Robbins, Lima
 Cassandra Diane Robenalt, Van Wert
 Amy Elizabeth Robison, Worthington
 Patrick Milo Roetzel, Akron
 Martha Rosario Rojas, La Paz, Bolivia
 Elizabeth Ann Rowland, Worthington
 Rebecca Christine Ruck, Lima
 Holly Lowery Ruhlén, Kenton
 Rachel Jo Russell, London
 Joyce Lynn Salsbury, Bluffton
 Patricia Helen Sanford, Johnstown, NY
 Joseph Timothy Santa-Emma,
 Upper Arlington
 Patricia A. Sapp, Reynoldsburg
 Jodi Lee Saunders, Parma
 Theresa Anne Sauter, New Albany
 Frederick William Schenk, Lima
 Kay Marie Schmitmeyer, Columbus
 Judi Diane Schmucker, Massillon

Janden Elizabeth Schoeff, Wapakoneta
 Clare Anne Schortgen, Ottawa
 Debbie Ann Schrader, Plymouth
 Linda Kay Mast Schulze, Bloomville
 Nikki Jon Schumaker, Lima
 Louis Anthony Serapiglia, Middlebranch
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 Robert James Shirley, Mansfield
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 Steven Alan Smith, Lima
 Charles Chris Spielman, Massillon
 Thomas Gregory Stadler, Shelby
 Pamela Jean Staffen, Westerville
 Carolyn Mae Stallings, Marysville
 Leanne Marie Stang, Findlay
 Helen Stanich, Columbus
 Janet Allison Steinke, Wapakoneta
 R. Scott Stevens, Reynoldsburg
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 Ginger Marie Stover, Harrod
 Coleen Ann Strach, Silver Lake
 Melissa Kay Stucke, Burkettsville
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 Rebecca Burcham Swickard, Johnstown
 Shalu Tandon, Marion
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 Nerys W. Thomas, Columbus
 Lora Elizabeth Thompson, Columbus
 Kevin Keith Topping, Ashville
 Edith Melvina Towns, Columbus
 Kerry Ann Tracy, Akron
 Anthony Louis Treboni, Columbus
 Melanie Riley Trombetti, Columbus
 Cheryl Renee Troyer, Plain City
 Shelly Anne Ulmer, Winnipeg, Alberta,
 Canada
 Maria Lynn Vaccarella, Columbus
 Angela Marie Van Horn, Reynoldsburg
 David Anthony Van Horn, Montvale, NJ
 David Christopher Warner, Lima
 Margaret J. Mayer Washington, Mansfield
 William Scott Wasserman, Mechanicsburg
 Leigh Ann Watercutter, Heath
 Stacey Kay Waters, South Solon
 Beth Ann Weeks, Pleasant Hill
 Jill Suzanne Weiner, Northfield
 Jeffrey Mitchell Weiss, Cleveland Heights
 Linda Young Wells, Coshocton
 Amy Beth Wesenberg, Port Charlotte, FL
 Renee Virginia West, Columbus
 Pamela Michelle Wharton, Mansfield
 Stacey Ann Whitaker, Eastlake
 Donna Joan White, Mt. Gilead
 Lisa Ann White, Kenton
 Louise Janet Wigney, Charlotte, NC
 Amy Diana Wilson, Crestline
 Ann Maria Wilson, East Liverpool
 Kimberly Sue Wilson, Heath
 Tricia Ann Wintergerst, North Olmsted

Matthew Burl Wiseman, Mansfield
Jill Wisniewski, Westerville
Sharon Marie Woeste, Cincinnati
Tracey S. Wolcott, Reynoldsburg
Patricia Susan Wolfe, Cincinnati
Ruth Ellen Mahler Wood, Findlay
Craig Thomas Wyckoff, Marion
George L. Wyndham, Kenton
Michelle Ann Yarsa, Lorain
Lisa Kathleen Young, Lancaster
Carolyn Marie Zak, Parma
Bradley Alan Zech, Sandusky
Joanna Sue Zinkon, Fresno

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

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Gregory Alan Balnoschan, 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 De Bonis, Hubbard
Mark Anthony Detelich, Brookfield
Carl Dean Dever, Brecksville
Timothy Joseph Diersing, Delaware
Leonard Paul DiLudovico, Jr., Leetonia
Leonard Andrew Dudzinski, Strongsville
Ronald Steven Fritsch, Berkey
Stefan Eliot Froelich, Shaker Heights
Scott Gregory Gramling, Columbus
Dennis Mark Grieshop, Yorkshire
Scott Randal Gulyas, Austin, TX
Bryan Dean Haas, Midland, MI
Michael Allen Hall, Toledo
David William Herring, Jr., Toledo
James Michael Higgins, Pataskala
Christopher Todd Hunt, Wooster
Karyn Michele Igar, Knoxville, TN
James Edward Kamenca, Oregon
Eric Edward Kibler, Ravenna
Laura Ann Kozel, Columbus
Robert Michael Latin, Harrisburg, PA
Christopher Douglas Lykins, Fairborn
Nicolo Filippo Machi, Solon
Timothy Earle Mack, Collins
Jeffrey Craig Masters, Columbus
John Thomas Meeks, Jr., Columbus
Rafic A. Mouzaya, Jaj, Lebanon
Kenneth Edward Mulh, Mentor
James Andrew Negro, Youngstown
Dan Thanh Nguyen, Columbus
Andrew Donald Orben, Wadsworth

Martin Edward Piccus, Orange
John Alexander Plaga, 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 Stallkamp, Beaver Creek
Gregory Todd Steinmetz, Cincinnati
William Ronald Stevens, New Albany
David Eldo Taylor, Toledo
Robert John Theiss, North Olmsted
Daniela Louisa Trapani, Greensboro, NC
Thomas William Uhase, Maple Heights
Steven Michael Vehrs, Addison, IL
Mercedes A. Vizueta, New York, NY
Kathleen Ann Watson, Lorain
Jason Fredrick Whitney, Stow
Anthony Carl Wiederkehr, Charlton, NY
Thomas DeWitt Woodrow, Columbus
James Patrick Wooster, Seattle, WA
Roger David Wuerefel, Perrysburg
Stephen John Zaborski, Westlake
Brian O. Zimmerman, Strongsville

Bachelor of Science in Agricultural Engineering

Leo Branson Conkel, Jr., Reynoldsburg
Nazih Wahib Fady, Tripoli, Lebanon
Thomas Brian Feldman, Hamilton
Robert George Hentz, Cincinnati
James Todd Hughes, Mt. Vernon
Russell Byron Krock, Oregon
John Harvey Peterson, Washington Court House
Rodney James Tornes, Waterford
Ronald Thomas Trivisonno, Galena

Bachelor of Science in Aviation

Jimmy Bitz, Middleburg Heights
Christopher Nelson Conn, Avon Lake
Robert Lawrence Garvin, Columbus
Paul Andrew Kienzle, Kettering
Bryan Allen Konst, Bellevue
Thomas Alan Linnevers, North Olmsted
Terrence Earle Mack, Collins
Timothy Alan McLaughlin, Norton
David Andrew Meechan, Columbus
Andrew Clayton Quiett, Barker, NY

Bachelor of Science in Ceramic Engineering

Kelly Suzanne Baker, Clinton
Ray Virgil Baker, Powhatan Point
Michael Patrick Cytacki, Brunswick
Stephen Guy Gallaher, Powhatan Point
Angela Renee Grusd, Bluffton, IN
Harjanto Hardjani, Indramayu, Indonesia
Alan Lee Harness, Liberty, MO

Albert Carl McDonald, Jr., Columbus
Mary Katherine Meyer, Delaware
Patrick Francis Rego, Hudson
Barry Scott Ringstrom, Fairfield
Gerri Darlene Waddell, Gahanna
Theodore Allen Wegert, Elmore
Julius Alfred Zari, Reynoldsburg

Bachelor of Science in Chemical Engineering

Mark Wesley Anderson, Circleville
Craig Bernard Barry, Elyria
Linda Jean Broadbelt, Warren
Christopher Joseph Caudell, Peoria, IL
Jennifer Elizabeth Craig, Tipp City
Katerina Millie Eftimoff, Columbus
Lisa Joy Fletcher, Katy, TX
Julie Ann Fogarty, Columbus
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Brian Keith Furlong, Mt. Prospect, IL
Barton J. Girdwood, Maumee
Johnna Eileen Griffiths, Bedford Heights
Keith James Grover, Worthington
Laura Anne Hause, Perrysburg
Eric John Hrbac, Oregon
Walter George Macesich, Parma
Stephen Robert Phillips, Tiffin
Michael Joseph Pishkula, Mayfield Heights
Robert Ryan Proctor, East Liverpool
Amy Joyce Reynolds, Dublin
Brian Lyn 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
Ahlem 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 Graffeo, Solon
Adolfo A. Guzman, Columbus
Malcolm Scott Hiltz, LaGrange
David Charles Hutchman, East Liverpool
Brian Michael Kennedy, Youngstown
Brian Ross Lamenson, Livonia, MI
Patrick Joseph Manger, West Jefferson
Barry James Mazik, Westerville
Ana Marissa Melendez, Beaver Creek
Patrick John Mihelick, Stow
Alexandra Elaine Millsap, Columbus
Theodore Allen Mize, Berlin Heights
Michael Sean Mulligan, Utica
Thomas Glenn Muraski, 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, Middleburg 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 Leroy Beightler, Jr., Columbus
Brian Lee Bohman, Yorkshire
Brian Douglas Calhoun, Sacramento, CA
Gregory Scott Clark, Dayton
Gary George Clipping, Utica
Brian Edward Combs, Perrysburg
Michael John Drum, Columbus
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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
Haig Michael Korikian, Cambridge
Petar Kraguljac, Broadview Heights
Melinda Kay Lyle, Pickerington
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John Timothy McCoy, Columbus
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Michael Edward Mellott, Mansfield
Michael A. Perkinson, Pensacola, FL
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Bryan Scott Rine, Mt. Vernon
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Michael John Segel, Pepper Pike
Ali Mustafa Smali, Columbus
Brian Joseph Smith, Kettering
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Sandra Sudarsky, Bogota, Colombia
Garrett Joseph Suhm, Avon Lake
Craig Wilson Treisch, North Lawrence
James Joseph Van Such, Youngstown
Richard A. von Clausburg, Pickerington
Michael Patrick Wallace, South Lebanon
David Bruce White, Worthington
John Alan Wieronski, Cleveland
Donald Alan Ziegler, Niles

Electrical Engineer

Imen Guediche, Sousse, Tunisia

Bachelor of Science in Electrical Engineering

John Edward Bahr, Chesterland
Christopher Brent Balough, Mason
Michael Alan Balsei, Bellaire

Mark Andrew Barnes, Kettering
Patrick D. Bawer, Columbus
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 Croutwater, Canton
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Maria Priscilla Bautista De Leon, Sacramento, CA
Stephen John Deitzer, West Chester
Ronald Robert Dull, St. Henry
Dina Firoozmand, Tehran, Iran
Albert Leslie Frydland, Cincinnati
Seng Ler Goh, Muar Johor, Malaysia
Michael Louis Gomez, Willowick
Kevin Leslie Gooder, Sidney
John Edward Grolle, Parma
Albert Lee Hogan III, Columbus
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Gary Allen Jorgensen, Oxford
Michael McCarrell Keen, Leland, MI
Stephen Joseph Krak, Westerville
Raja Laifa, Tunisia
William Timothy Lester, Akron
Douglas Edward Loyer, Worthington
Timothy Kear Maahs, Centerville
Douglass Alan Matthews, Wilmington
Gavin Balfour Meil, Willowick
Scott Eugene Moser, Columbus Grove
Thang Huu Nguyen, Columbus
Todd Burton Norcross, Republic
Michael James Opatrny, Bay Village
Janna Lee Patterson, Vermilion
Richard William Pomerantz, Cleveland
George Anthony Pontones, Columbus
Kyle Edward Riehle, Edgerton
Ramez Farid Saba, Columbus
Craig Richard Schwarze, Fairview Park
Brian Donald Smith, Columbus
Kris Allen Stegner, Delaware
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Andrew Michael Szaniszló, North Olmsted
Scot Alan Tutkovics, Lorain
Jugal Kishore Vijayvargiya, Hudson
Daniel Norman Wan, Columbus
Laura Ann Weber, Lyndhurst
Lori Ellen White, Columbus
Kevin Dean Wilhelm, Mansfield
James Michael Wolfe, Westerville

Bachelor of Science in Engineering Physics

Donald Jeffrey Churchill, Eastlake
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Philip Enny, Belford, NJ
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James Duncan Harris, Portsmouth
Joseph Peter Maslar, Mt. Gilead
Keith Edward O'Hara, Columbus
Martin 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 Bt. 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
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Jill Cathleen Delaney, Beavercreek
Douglas Jay Dupler, Lancaster
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Mary Ellen Ernsthausen, Spencerport, NY
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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
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Mark Steven Kirkendall, Pickerington
Ranvir Kwan, Pekan Baru, Indonesia
Edwin Darrell Long, Jr., Goshen
Julianne Lupica, Hudson
Richard William Maharrey, London
Craig Allen Miley, Delaware
James Lyle Miller, Elyria
Deborah Helen Mobley, Eaton
James Allen Monnin, Versailles
Matthew Paul Mountain, Columbus
Joseph Salvatore Mullner, Lorain
Lisa Anne Mustake, Brookfield
Philip Robert Ograd, 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 Snezek, Martins Ferry
Robert Jeffrey Stauffer, New Bremen
Natalie Jean Stokes, Cleveland
Donald Paul Warsing, Lyndhurst
Seniadi Widjaja, Malang, Indonesia
John Thomas Williamson, Irondale
Jeffrey Randall Wood, Pickerington

Bachelor of Science in Mechanical Engineering

Francisco Javier Arleth, Madrid, Spain
Robert Allen Bacu, Westerville
Rose Marie Bohinc, Madison
David Neil Bradwell, North Olmsted
Derrick Louis Brent, Washington, PA

John Patrick Brophy, Ann Arbor, MI
 Jonathan Dean Buonamici, Hubbard
 Karen Lynn Burch, Worthington
 Raymond Scott Cartier, Cincinnati
 Kris Andrew Christensen, Columbus
 James Michael Colver, Jr., Worthington
 Richard Edward Delehanty, Centerville
 Steven Joshua Gluck, Cleveland
 Barry Matthew Gluntz, Canton
 Michael Nelson Haas, Richmond Heights
 Raymond Estler Heyd, Lorain
 Keith Alan Hohler, Dayton
 Alan Glen Holmes, Zanesville
 Leonard Gerard Horstman, Springfield
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 James Dean Marple, Lancaster
 James Francis Million, Columbus
 Victor Carlos Moreno, Wyoming
 Darlene Regina Nagel, Hartford
 Jeffrey Mark Penkowski, Concord
 Matthew Charles Pickston, Shaker Heights
 Scott Eric Post, Painesville
 Jonathan Drew Rader, 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
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 Stacy Ann Schimmel, Marysville
 Talal Jamal Shaheen, Findlay
 Brian Allen Shockey, East Liverpool
 Glen Walter Spehr, Gahanna
 Richard Keith Spyker, Lima
 Douglas Lemoyné 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 Walch, Sylvania
 James Ronald Wharton, Avon
 Thomas Eugene Wiseman, Kettering
 Christopher John Wodarczyk, 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 Geib, North Canton
 David Scott Haghiri, Wooster
 Mark Andrew Harper, Columbus
 John Leo Hauck, Columbus
 James Paul Krzykwa, Vermilion
 Stephen Edward Maddox, North Canton

Nanda Kumar Manogaran, Ipoh, Perak, Malaysia
 James Michael Mullen, Kettering
 Patrick Jon Murley, Marble Cliff
 John Augustin Neff, Zanesville
 James Nick Sajatovic, Willoughby Hills
 William K. Schlichting, Callicoon, NY
 Gerald Stoltman, Solon
 Ronald Lewis Stutsman, Botkins
 Eugene Kwanghowe Tan, Singapore, Singapore
 Jeffrey Alan Taylor, Gahanna
 Joseph Charles Wisvari, 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 Burl Arthur, Mentor
 James Terry Banal, Jr., Dillonvale
 Eric Jon Barnhouse, East Liverpool
 Garry Galen Brown, New Baltimore
 Kevin Lee Cogar, 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 Griffin, Wadsworth
 David Scott Haghiri, Wooster
 Jeffrey Boyd Hardesty, Columbus
 Douglas Scott Hoyt, Elyria
 Terri Tomas Infield, Sugar Creek
 Robert Christian Jonas IV, Columbus
 Dan C. Kingman III, Lincoln, NE
 Scott Wendell Knappen, La Crosse, WI
 Jeffrey Michael Kuehn, Parma Heights
 Tomas Jerker Magnusson, Hälleviksstrand, Sweden
 Vance Alan McCray, Columbus
 Karen Irene Miller, Warren
 Michael Gerard Poss, Worthington
 Lonnie Irving Rush, Jr., Pickerington
 James Joseph Saelens, Carpentersville, IL
 Matthew David Shalosky, Reynoldsburg
 Steven Mark Smith, Mt. Blanchard
 Thomas Frederick Smith, Bexley
 Robert Allen Spicer, 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. Allsbrook, 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
 Scot Alan Draughn, Sidney
 James George Dreisa, Gahanna
 Juan Elejabettia, Madrid, Spain
 Robert Karl Evans, Cleveland Heights
 Bryan Lee Faunt, Sylvania
 Anthony Errol Feilback, Englewood
 Richard J. Fisher, Jr., Girard
 Mark Stephen Foster, Toledo
 Brian Neal Geiser, Pandora
 Todd Alland Griffith, Washington Court House

Martin Allan Griggs, Columbus
 Scott Richard Harper, Columbus
 David Eliot Jamison, Worthington
 Edward Charles Jerdonek, Louisville
 Brad Avi Kekst, Beachwood
 Mark B. Kimura, Dayton
 Benjamin Edward Kyles III, East Cleveland
 Christopher Jan La Rosa, Columbus
 Chih-Ming Lin, New York, NY
 May Lo, Coral Gables, FL
 Wilson Ngiap Hiang Loh, Singapore
 Laura Ann Martina, Parma
 Christine LeAnn Meeker, Findlay
 Kyle Erich Miller, Marietta
 Randall Clay Mullins, Wheelersburg
 Kevin Paul Pierce, Laura
 Ronald Henry Ruppensburg, Columbus
 Craig Louis Rutkowski, Fairborn
 Gary Lee Sebach, Zanesville
 Douglas Allan Skriac, New Carlisle
 Steven Fredrick Smith, Perrysburg
 Jon Joseph Sofranec, Poland
 Evangelos Epiphaniou Solomonides, Larnaca, Cyprus
 Alyssa C. Spechalske, Lodi
 Douglas Eugene Swartz, Fairlawn
 Mark Owen Taylor, Marysville
 Boonswee Tee, Kuala Lumpur, Malaysia
 Geraldyn Campanelli White, Canton
 Philip Owen Wince, Jr., Lancaster
 Bradford Mitchell Winkeljohn, Columbus
 Kah Ong Wong, Kuching, Malaysia
 Todd Raymond Wroblecki, Westlake

Bachelor of Science in Landscape Architecture

Melinda Mary Appold, Toledo
Janice Lee Auble, Huron
Cletus Joseph Benken, Cincinnati
Peter John Burke, Youngstown
Kenneth Scott Dickerman, Manlius, NY
Joseph Allen Fry, Cincinnati
Andrew C. Gay, Columbus
Timothy Charles Glorioso, Willard
Mary Ann Hemli, Huntington, NY
Robert Arthur Jurs, Jr., Sandusky
Michael Dennis Kannard, Lima
James Scott Louthen, Columbus
David Charles Moeser, Pinehurst, NC
Laura Ann Murray, Eastlake
Eric Michael Nagy, Delaware
John August Paglialunga, Canton
Carol Ann Perovshek, Willoughby
Carolyn Ann Risch, Blacklick
Christopher Anthony Rowney, Toledo
Boris Milan Terebun, Bellefontaine
David Alan Warye, Columbus
Donald F. Willner, Jr., Tipp City
Brian James Yoder, Toledo
Ted Allen Zangmeister, Bremen

College of Home Economics

Dean: Lena Bailey

Bachelor of Science in Home Economics

Diane Mae Acton, Yellow Springs
Stefani Jill Adelman, Pepper Pike
Mary Beth Aeh, Galloway
Diana Lynne Altenburger, Lima
Megan Aileen Anello, Cincinnati
Lori Lynn Angelo, Wakeman
Leila Ruth Bardill, Parma
Amy Beth Beard, Harpster
Kimberly Dawn Besecker, Troy
Leeann Michelle Biarsky, Lyndhurst
Jamie Renee Black, Kenton
Terri Rochelle Brenneman, Wooster
Jennifer Lyn Brock, Okeana
Kelly Sue Brown, Willoughby
Robin Lynn Bryan, Wilmington
Annette Margarite Campbell, Columbus
Pamela Louise Card, Worthington
Christine Marie Carroll, Kettering
Camillynn Jo Chattin, Fredericktown
Amy Joanne Clement, Lima
Steven Lee Corsover, Columbus
Cami Jean Cropper, Bolivar
Lynda Rachelle Curl, Piqua
Jill Leslie Davis, Pepper Pike
Marsha Ann Davis, Vestal, NY
Donna Leigh Decker, Orient
Daniel Joseph Demasty, Mentor
Brenda Eileen Dillon, Newark
Constance L. Dow, Worthington
Kelli Jean Ehrhardt, Mayfield Village
Patricia Ann Estep, Columbus

Margaret Anne Bannan Eversole, Worthington
Rhonda Kay Freeman, Lore City
Cynthia Ann Fuller, Delaware
Lori Lynn Gaiser, Westerville
Lynn Ellen Gayton, Columbus
Mary Suzanne Glancey, 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 Hegerty, Columbus
Charlene Louise Henderson, Reynoldsburg
Jill Anne Hines, Bellefontaine
Daphne Jane Hipple, Columbus
Susan Elizabeth Hirsch, Cleveland
Lori Ann Holbrook, Jackson
Brenda Kay Hoying, 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 Kumler, Lancaster
Alyssa Dyan Kutz, Concord
Lori Kay Lammers, Minster
Martha Ann Landrum, Cleveland Heights
Natalie Kriss Lederer, Shelby
Diane Kay Leflar, Waynesboro, VA
Mary Margaret Liles, Belle Center
Lisa Dianne Luckado, Westlake
Isabel J. Martin, Shaker Heights
Lisa Marie McCoy, Grove City
Cynthia Lynn Michael, Cincinnati
Mary Helen Murphy, Sunbury
Leanne Stephanie Neuhart, Caldwell
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 Pruiksmas, Columbus
Susan Emily Purvis, Hamilton
Christine Danielle Rapol, Zanesville
Denise Lynn Rapp, Gibsonburg
Tina Louise Ray, Kingston
Tricia Louise Robinson, Bloomingburg
Devon Leigh Romp, Avon Lake
Lisa Sue Rosenblum, Beachwood
Andrea Louise Royer, Columbus
Tricia Ruthann Russo, Reynoldsburg
Julie Beth Schorr, South Euclid
Amy Lynn Selby, Middletown
Laura Lynn Sensenbaugh, Centerville
Amy Lee Sessi, St. Clairsville
Amy Margaret Stuve, Chesterland
Amy Elizabeth Synk, Berea
Theresa Marie Tosino, Toledo
Donna Marie Trentel, Lakewood

Ted Nicholas Tryba, Wilkes-Barre, PA
Sandra Lynne Urig, Avon Lake
Gina Marie Wachinger, Worthington
Amy Cathleen Walker, Bellbrook
Elizabeth Ann White, Columbus
Sulyn Wildoner, Wilmington
Julia Anne Wilson, Columbus
Mary Jean Wirtz, Columbus
Monica June Woodard, Lima

Bachelor of Science in Hospitality Management

Lisa Carol Archer, Dublin
Paul Kurt Baerenstecher, Houston, TX
Kelli Lyn Buess, Wharton
Patricia Nelle Cleary, Columbus
Curtis Clay Deeter, Greenville
Robert Lawrence Gray, Columbus
Russell Paul Guenther, Akron
Rebecca Lee Hancock, Columbus
Deborah Rose Johnson, Hamilton
Susan Kay Jordan, Ridgeway
Randall Kirby Knapp, Columbus
Yvonne Carmen Locher, Republic of Panama
Susan Kay McConnell, Columbus
Brian Donald McKay, Arlington Heights, IL
Anthony Robert Serio, Columbus
Thomas Todd Stewart, Bridgeport
Lisa Ellen Tillson, Trumbull, CT
John Willis VanDervoort, Jr., Columbus

Bachelor of Science Nutrition

Hassan M.F. Farhood, Riyadh, Saudi Arabia
Vincent Frank Ferrini III, Worthington
Ryan Paul Hanson, Fostoria
Sandra Marie Jones, Cincinnati
Jeffrey Ray Neher, Bay Village
Matthew Stevenson Wayne, Shaker Heights

College of Law

Dean: Francis X. Beytagh, Jr.

Juris Doctor

John Stanton Addams, Marysville B.A.
Margaret Bush Apel, Portsmouth A.B. Psychology (Ohio University)
Christopher Armstrong, Cuyahoga Falls B.S. (University of Akron)
Carolyn Susan Baker, Centerville B.S. (Wright State University)
Joseph Edwin Balmer III, Kettering B.A. (Emory University)

Rolf Eric Baumgartel, 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 Bowshier, 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. Carmany, Columbus
B.A. (Heidelberg College)

Carol Lynn Cassell, Grove City
B.A.

James Lee Catanzaro, Jr., Mentor
B.A.

Alison Lanier Cauthorn, Reedsville
B.A. (Ohio Wesleyan University)

Melissa Ann Chase, Alpharetta, GA
B.A.

Judith Ann Clausing, 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 Gillis, Flagstaff, AZ
B.A. (Northern Arizona University)

Carrie Elizabeth Glaeden, 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. Harshaw, 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. Hillmer, Tiffin
B.A. (Denison University)

Ann Aileen Holom, Fort Wayne, IN
B.A. (Indiana University)

Jeffrey Howard Hurdley, 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. (Rutgers University)

Patricia J. Lamphear, Columbus
A.D. in Nursing (Otterbein College);
B.A.

John L. Landolfi, Niles
B.A. (Westminister 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)

Marion Homer Little, Jr., Columbus
B.A.

Rex Allen Littrell, Maple Heights
B.A. (John Carroll University);
M.A.

David Allen Lopina, Cincinnati
B.S. (Miami University)

Scott Joseph Mahon, Cincinnati
B.A. (University of Cincinnati)

Robert Mark Maltz, Beachwood
B.A.

Paul William Martin, Jr., Columbus
B.S.E.E. (United States Naval Academy)

Marc David Matlock, Mayfield Heights
B.A.

Joseph Anthony Matyskiela, Columbus
B.S. (United States Naval Academy)

Deborah Elaine Mayer, Upper Arlington
A.B. (Washington University)

Jeffrey Williams McCray, Columbus
B.A.

Jonathon L. McGee, Kenton
B.A. (Ohio Northern University)

Todd M. McKenney, Akron
B.A. (Hiram College)

Noreen Mary McMahon, Rocky River
B.A. (Baldwin-Wallace College)

Julia LaRita McNeil, Chicago, IL
B.B.A. (Howard University)

Daphne Stavros Meimaris, Lorain
B.A. (Oberlin College)

Charles Michael Miller, Cincinnati
B.S. (Indiana University)

Lawrence Walter Mitchell, Cincinnati
B.A. (University of Cincinnati)

Boyd Kenneth Moehring, Gahanna
B.A. (Capital University)

Andrew John Mollica, Athens
B.A.

Nancy Darlene Moore, Frazeyburg
B.S.Agr., M.S.

Sarah Jayne Moore, Montpelier
B.S. (Bowling Green State University)

Mary Ellen Morgan, Columbus
A.B. (Smith College)

Carol Horomi Morita, Columbus
B.S.J. (Northwestern University)

Tod Timothy Morrow, Magnolia
B.A. (Mount Union College)

Stephen Ashley Mortinger, Westerville
B.A. (Denison University)

Linda Fickert Mosbocher, Gahanna
B.A. (Otterbein College);
M.A.

Michael Alan Moskowitz, Cincinnati
A.B. (University of Michigan)

Margaret Frances Moy, Warminster, PA
B.A. (Indiana University of Pennsylvania)

Jeffrey Alan Moyer, Bellevue
B.S. (United States Military Academy)

Patrick Jarrett Mulligan, Dayton
B.A. (Wright State University)

Craig Steven Myers, Dayton
B.A. (Oberlin College)

Deborah Beth Newman, Youngstown
A.B. (Washington University)

Nancy Lee Ogden, Sandusky
B.A.

John Russell Paliga, Struthers
B.S. (Youngstown State University)

Christopher Evan Parker, Worthington
B.S.Bus.Adm.

Rusty Allen Payton, Chesapeake
B.A.

Roxanne Olivia Peach, Olney, IL
B.S. (University of Illinois)

Julia Ann Petrik, Rittman
B.S. (University of Akron)

Lawrence David Pollock, Cincinnati
B.A. (Miami University)

Claudia Helena Porras, Miami, FL
B.A. (Eastern Kentucky University)

Gregory Allen Price, Youngstown
B.A.

Keith Marilyn Rabenold, Cincinnati
B.S.Bus.Adm.

Michael Allen Rambert, Columbus
B.A. (Middlebury College)

John Joseph Reilly, North Olmsted
B.A. (John Carroll University)

Amy Shepherd Riber, Flushing
B.A.

Carol Ann Richards, Tulsa, OK
B.A. (The University of Oklahoma)

Charles Eugene Ringer, Louisville
B.A. (University of Akron)

Annette Joy Ritter, Worthington
B.S.Nurs.

Jack Ralph Rosati, Columbus
B.S.Pharm.

Steven Jay Rosenblum, Mayfield Heights
B.S.Bus.Adm.

Jeffrey Carl Rossborough, Parma
B.A. (University of Dallas)

Jeffrey Steven Routh, Girard
B.A. (University of Virginia)

Charles Gregory Rowan, Toledo
B.A. (University of Dayton)

Thomas George St. Pierre, Columbus
A.B. (Miami University)

David Malcolm Sanders, Atlanta, GA
B.S. (Wake Forest University)

Deborah Felece Sanders, Columbus
B.S. (Franklin University)

Brian Edward Sandoval, Sparks, NV
B.A. (University of Nevada-Reno)

Jeannine Catherine Sanford, Worthington
B.A., M.A.

Dean Arthur Scheidler, Elyria
B.A.

Jeffrey Scot Schira, Columbus
B.S.C.E.

Neil David Schor, Beachwood
A.B. (University of Michigan)

Perry Frank Sekus, Munroe Falls
B.A. (Miami University)

James Wayne Sheridan, Poland
B.A.

Robert Gregory Shumay, Parma
A.B. (University of Michigan)

John Robert Smart, Columbus
B.A. (Miami University)

Katherine Sue Spies, Dover
B.A.

Brad Alan Sprayberry, Bryan, TX
B.S. (Ohio University)

Cheryl Lee Sprinkle, Columbus
B.A.

Renee Ann Stadel, Stockton, IL
B.S. (University of Illinois)

Rebecca Roese Steele, Columbus
B.S. (Franklin University)

Bryan Kent Stewart, Springfield
B.A. (Wright State University)

Donna Owens Stokes, Fairborn
B.S. (Wright State University)

Karen Sue Streacker, Tiffin
B.S.Bus.Adm.

Kimberly Renee Strong, Miamisburg
B.A. (Wright State University)

Richard Edward Surkamp, Cincinnati
B.S. (Xavier University)

Andrew Glenn Sykes, Mansfield
B.A. (Capital University)

Janet Leanne Szpond, Dearborn, MI
B.A. (University of Maryland)

Robert Anthony Taormina, Columbus
B.S. (University of Toledo)

Marc Alan Tenenbaum, Shaker Heights
A.B. (University of Michigan)

Daniel Joseph Thomas, Fairview Park
B.S. (Miami University)

Leslie Kay Thorpe, Toledo
A.B. (Sarah Lawrence College)

Mark Steven Tibberts, Columbus
B.A.

Charles Edward Ticknor, Mansfield
B.A.

Timothy Todd Tullis, Toledo
B.A. (College of Wooster)

Nancy Anne Utz, New Washington
B.A. (Hollins College)

Elizabeth Ann Van Fossen, Powell
B.A. (Miami University)

Teresa Villareal, Texarkana, TX
B.S. (East Texas State University)

Nicholas Joseph Vizey, Burton
B.A. (John Carroll University)

Valerie Vlahos, Amherst
B.S.Bus.Adm.

Robert Allen Wade, Delta
B.A. (Bowling Green State University)

Brian Anson Walker, Columbus
B.S. (Franklin University)

Gloria Bowman Washington, Columbus
B.S.

Janis Anita Washington, Richmond, VA
B.A. (University of Virginia);
M.B.A.

Kristin Lynn Watt, Huron
B.S.Bus.Adm.

David Stuart Watson, Mayfield Village
B.A. (Allegheny College)

Jack Wilfred Whitesell, Jr., Columbus
B.A. (Principia College)

Marcia Elizabeth Williams, Dublin
B.A. (University of Arizona)

Kenneth Howard Wine, Cincinnati
B.S.Bus.Adm.

Taffanee Lynn Woods, Indianapolis, IN
B.S. in Public Affairs, Criminal Justice
(Indiana University)

Susan Elizabeth Wuormien, Columbus
B.S.Bus.Adm.

Dominick George Yacono, Brooklyn, NY
B.A. (The American University)

Deborah Marie Yoon, Columbus
B.A. (University of Steubenville)

Thomas Mark Zaino, Xenia
B.B.A. (University of Cincinnati)

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 Antalis, 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 Behbakht, 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. (Brigham 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 Bringham, Fontana, CA
B.A. (Brigham Young University)

Barry Allen Brokaw, Marietta
B.S. (Duke University)

Kenneth Stephan 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 Crawley, Columbus
B.A.

Paul Ridge Culler, Lucas
B.A.

Camilla 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 Dearthmont, 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 Fetters, 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 Gariety, 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)

Timothy Eugene Hayes, Brandford, 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)

Sharhabeel Musa Jwayyed, Youngstown
 B.S. (Youngstown State University)

SunJun Kang, Houston, TX
 B.B.A. (University of Texas, Austin)

Pamela Elizabeth Kapraly, Mason
 B.A. (Wittenberg University)

Douglas Alan Katula, Poland
 B.A. (DePauw University)

Lisa Margaret Keder, Bradford, PA
 B.A. (Oberlin College)

Paul Evan Kelner, Beachwood
 B.S.

Stephen Joseph Kennedy, Bexley
 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 Lahorra, 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 Luu, 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)

Laurel 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 Moell, 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, Neffs
 B.A.

John Patrick Morgan, Cincinnati
 B.S. (University of Cincinnati)

Sayoko Eileen Morio-Fetters, Kent
 B.A. (Duke University)

Gayle Ann Mosher, Rochester, NY
 B.S. (State University of New York
 College of Oneonta);
 M.S. (University of Colorado)

Andrew Mark Muchow, Sylvania
 B.A. (Ohio Wesleyan University)

Cynthia Jane Mueller, Adena
 B.S. (Wheeling Jesuit College)

Rajyalakshmi Mulukutla, 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)

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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-Harman, 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 Riethman, 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 Rubeis, 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 Sammarco, 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 Station, NY
B.A. (State University of New York);
M.S. (The Florida State University)

Eric Christian Schroer, 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)

Lorri 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 Sinnathamby, Dayton
B.S. (University of Dayton)

H. Wayne Slone, Beaver
B.S.

Norman Alan Smyke, Jr., Kirtland Hills
B.S.

Anthony Newman Sodd, 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 Stienecker, 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. Verghese, Wadsworth
B.A. (Case Western Reserve University)

Francis Albert Voegelé, Mansfield
B.S. (University of Notre Dame)

James Warren Wagner, Grosse Pointe Farms, MI
B.A. (Aibion 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, Kensington, CA
B.A. (University of California, Berkeley)

Eden Victoria Wells, San Francisco, CA
B.A. (University of California, San Diego)

Elizabeth F. White, Shippensburg, PA
B.S.

William Bruce White, Albany, GA
B.A. (San Francisco State University)

Susan Holly Wické, Athens
B.F.A., B.S. (Ohio University)

Gary Anthony Wilson, Oxford
A.B. (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 Yokum, Wadsworth
B.A. (Wittenberg University)

James Robert Young, Canton
B.S.

Mark Joseph Zimpfer, Rochester, NY
B.A. (State University of New York at
Buffalo)

School of Allied Medical Professions

Bachelor of Science in Allied Health Professions

Caroline Rita Abram, Youngstown
Elizabeth Ballard Alexander, Gahanna
Darlene Marie Almaguer, Toledo
Nichole Dawn Ames, Sycamore
Russell James Annis, Jr., Columbus
Brent Steven Applebaum, Columbus
Amy Beth Armstrong, Coldwater
Jana Diane Bach, Beavercreek
Meri Beth Bagnoli, Tallmadge
Lori Lynn Baker, Columbus
Marie Beth Balmenti, East Liverpool
Bruce Charles Barillas, Columbus
Laurie Lynne Bell, Columbus
Gina Maria Belsito, Worcester, MA
Deborah Sara Bergman, Columbus
Marion Polly Conol Bitticker, Tiffin
Lisa Marie Blocher, Canton
Monica Marlene Bohman, Springboro
Cheryl Susan Boldt, Toledo
Michelle Leigh Bowen, St. Clairsville
Robert Douglas Boyle, North Canton
Lori Ann Brudzinski, Fremont
Michelle Lynn Bugh, Alliance
Kimberly Sue Bullock, Columbus
John Edward Burkhardt, Jr., Brecksville
Anne Frances Burns, Ashland
Jane Ellen Carlson, Avon Lake
Jayne Lynn Carr, Marengo
Patrick Joseph Carr, Marion
Jack Thomas Carruthers, Akron
Carla Marie Carter, Germantown
Patricia Marie Chiara, Cincinnati
Amberly Daneen Christman, Mansfield
Robert Phillip Clawson, Harpster
Leah Beth Clendening, Mt. Vernon
Clara Susan Cline, Mansfield
Melissa Anne Cunningham, Columbus
Craig William Davis, Fredericktown
Susan Manhart Denzer, Akron
Mona Mahmoud Diarbi, Saida, Lebanon
Donald Michael Diener, Waverly
Stephanie Lee DiFrancesco, Canton
Randi Faith Dolin, Beachwood
Laurie Elizabeth Duffield, Rochester, NY
Deborah Susan Elek, Tappan Lake-Scio
Haifa Hussein El-Khatib, Palestine
Sharon Kay Ellwood, Columbus
Susan Elaine Elmerick, Tallmadge
Diane Marie Emlaw, Mentor
Susan Joan Emmons, Kennebunkport, ME
Teresa Ann English, Cambridge
Patricia Jo Estes, Thornville
Robert Anthony Evans, Cincinnati
LaRaine Anne Fernald, Olmsted Falls
Kimberly Sharon Finchum, Columbus
Daphne Kay Foltz, North Canton

Maria Louise Fortkamp, Coldwater
Kris Marie Fought, Bexley
Joyce Beth Fried, Dayton
Kimberly Ann Fritzsche, Hamilton
James Michael Fuchik, Columbus
Jeanne Marie Galecki, Wadsworth
Daphne Lynn George, Thornville
Joseph Mark Geric, Hamilton, Ontario,
Canada

Drew Winfield Goddard, Salem
Julie Anne Grady, Willoughby Hills
Kreg Ross Gruber, Greenville
Marc Elmer Haas, Dayton
Manal Saad Eddine Habbal, Sidon,
Lebanon
Kathryn Marie Hamilton, Warren
Kristen Marie Hamilton, Warren
Jennifer Lynn Heisel, Oxford
Mark Wesley Hejduk, Austinburg
Diane Marie Hemmelgarn, Dayton
Laurie Anne Herraiz, Canton
Russell Edward Hessler, Westerville
Thomas Ralph Hetzel, Columbus
Leslie Mills Holland, Darien, CT
Anita Jeanne Holler, Columbus
Michael Thomas Horner, St. Clairsville
Karen Christine Howell, Lima
Yvonne Ruth Jackson, Beipre
Lisa Victoria Jedrzynski, Dudley, MA
Kelly Lee Jubb, Columbus
Kimberly Ann Kallick, Trenton
Cynthia Rae Kelbley, Fostoria
Maureen Elizabeth Kirwin, Columbus
Robert Richard Klein, Cleveland
Janet Elaine Kneisly, Englewood
Susan Marie Koehl, Findlay
Gary Joseph Kreuz, Delta
Renee Michelle Ladd, Columbus
Eric Steven Langus, Mayfield Heights
Stuart Erwin Loesch, Centerville
Suzanne Marie Mack, Cincinnati
Maurine Witalec Maneely, Heath
Kristine Sieglinde Martin, Worthington
Elane Matthews, Van Wert
Timothy John McCormick, Centerville
Eva Michelle McPeak, Chesterland
Patricia Coventry Megchelsen, Lorain
Catherine Jo Meyer, Sherwood
Gregory William Miller, Fremont
Dianne Mary Moning, Cincinnati
Gretchen Elizabeth Montgomery, Toronto
Jennifer Jo Morbitzer, Grove City
Cynthia Lynn Murray, Beavercreek
Timothy Richard Myers, Painesville
James Richard Neikirk, Springfield
Christine Marie Nettles, Wadsworth
Diane Michelle Neu, Cincinnati
Jacqueline Ann Newgent, Akron
Lisa Renee Null, London
Colleen Theresa O'Kane, Bucyrus
Amy Catherine Olhava, Perry
Diana Louise Paige, Amherst
Jill Ann Pasacic, Brookfield
Jerri Lynn Pequinot, Englewood
Mary Kayleen Peterman, Cincinnati
Margaret Ellen Phelps, Cincinnati
Rebecca Michele Piatt, Cincinnati
Ann Louise Pohlmann, Bowling Green
Patricia Marie Poorman, Mansfield

Teresa Joyce Porter, Lucasville
Tina Marie Posterli, Youngstown
Linda Marie Rethman, Versailles
Denee Angela Roberts, Dublin
Kristine Marie Roberts, Sycamore
Erika Elizabeth Roncs, Strongsville
Claire Ann Rothchild, Cincinnati
Rodney Rozumny, Stow
Lisa Marie Safonovs, Cleveland
David Howard Sambuco, Mt. Pleasant
Debra Sue Saunders, Lima
Marcia Joy Scaglione, Canton
Paula Jo Schimmoeller, Ottawa
Carolyn Frances Schmit, Coldwater
Ronda Lynn Seelig, Holly, MI
Vicki Ann Sherman, Columbus
Joseph Edward Simko, Highland Heights
Sharon Sue Smithberger, Pataskala
Donna Lynn Solinski, Garfield Heights
David Bryan Somogyi, Mayfield Heights
Lori Ann Sotman, Beavercreek
Ann Marie Stazenski, Toledo
Diana Mason Steele, Columbus
Mark Philip Stephan, Canton
Christopher John Strassell, Lucas
Denise Lynn Strickland, Springfield
Carl Alan Switzer, Logan
Deanne Margaret Szymanski, Brecksville
Traci Lyn Temple, Ellington, CT
Sudara Annette Thompson, Cincinnati
Debra Lyn Thornton, Tallmadge
David Robert Tushar, Eastlake
Charise Marie Vacca, Columbus
Sandra Lynne Valencic, Oregon
Jennifer Anne Waid, Warren
Clare L. Wallin, Dayton
Maureen Ellen Walsh, Fairview Park
Maria Beth Walton, Cincinnati
Sandra Julia Watson, Commack, NY
Nancy Kathleen Westhoven, Dublin
Brenda Sue White, Parma Hts.
Anita Marie Wilson, Steubenville
Jennifer Kay Wilson, Greenville
Sally Ann Worton, North Royalton
Lisa Lee Yannone, Canton
Ann Elizabeth Yoder, North Canton
Angela Rene Young, Fremont
Janet Kay Young, Quaker City

Certificate of Post Baccalaureate Circulation Technologist

David Ansley Duffey, Hapeville, GA
B.S. (Furman University)
Certificate (Emory University)
Certificate (University of Chicago)
B.S.Nurs. (Creighton University)

Certificate of Post Baccalaureate Medical Illustrator

Heather Ann House, Clyde
Bachelor (University of Notre Dame)

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 DeMatteo, 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 Scheetz, Youngstown
B.S. (Youngstown State University)

College of Nursing

Dean: Carole A. Anderson

Bachelor of Science in Nursing

Janet Arleen Akers, Baltimore
Edward Joseph Alexander, Akron
Susan Marie Andreski, Parma
Michelle Separa Anloague, 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, Hartsville
Mary Lee Boschulte, 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
Trissa 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
Annette Lynn Emery, Attica
Tammy Lyn Emich, Akron
Kathleen A. Engel, Kettering
Valerie Thompson Erwin, Columbus
Kristine Marie Fenstermaker, Champion
Elizabeth Dunaway Fraley, Cardington
Lesia Marie Fulks, Columbus
Leigh Andrea Gadell-Newton, Columbus
Kimberly Sue Gantt, Kettering
Cathryn Marie Guider, Chesterland
Tracey Lynn Hacker, Campbell
Laurie Lynn Halmi, Milford
Kathleen Mary Hanratty, Brunswick
Kara Sue Hazeltine, Centerville
Lara Scott Hefner, Lima
Susan Lynn Henry, Westerville
Caroline Grace Hermosura, Seven Hills
Kimberly Jane Hinshaw, Toledo
Karen Lynnette Hunt, Gahanna
Kimberly Susan Imperata, Shadyside
Dorothy Mae Jackson, Cleveland
Loretta 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 Loy, Ashville
Laurie Susan Magyar, Orwell
Brenda Sue Manner, Sandusky
Rebecca Sue Mastin, Gnadenhutten
Constance Marie McCourry, Canton
Jean Ann McGonagil, Butler
Kelly Ann McMeekin, Westerville
Karen Josephine Menezes, Columbus
Trisha Lynn Menezes, Berlin
Natalie Kristin Millisor, Upper Arlington
Lorraine Jean Moehrman, Columbus
Elaine Irene Moorman, St. Henry
Michelle Maria Morona, Strongsville
Regina Faye Morris, Westerville
Sharon Elizabeth Mramor, Highland Heights
Valerie Ann Murino, Lima
Rebecca Ann Nease, Columbus
Betty The Nguyen, Middletown
Jane Louise Olberding, Cincinnati
Kathleen Marie Parker, Delaware
Melanie Michelle Parmer, Alexandria
Stephanie Lynn Pennington, Jackson
Lynda Rae Petty, East Springfield
Shelly Kathleen Phillips, Galena
Amy Sue Potts Schmidt, Cincinnati
Kelly Marie Przeracki, Aurora
Robin L. Rapkin, North Miami Beach, FL
Cheryl Lynn Reinbold, Warren
Paula Roush, Richmondale
Julie Ann Schwartz, Youngstown
Bonny Sue Sengel, Columbus
Sharon Renee Sigler, Wooster
Julia Kristine Skavari, Columbus

Robert Patrick Smiles, Wooster
Kelly Marie Smith, Columbus
Susan Claire Snyder, Warren
Kimberly Sue Sonner, Hicksville
Kiran Elaine Srivastava, Hamilton
Pamela Rae Stinehart, Fostoria
Denise Ann Stoll, North Lawrence
Cynthia Ann Strauss, Valley City
Linda R. Tokarsky, Gambier
Andrea Lee Valentine, Chillicothe
Michelle Marie Vince, Yorkville
Carolyn Marie Wagner, Louisville
Kathryn Jeanne Watkins, Medina
Jacqueline Michelle Weigand, Stonecreek
Jeni Jean Werstler, Cuyahoga Falls
James Vernon Wiant, Coshocton
Maria Lisa Wilkin, Cleveland
Wendy Suzanne Williams, Solon
Alicia Anne Williamson, Dublin
Cary Ann Winkelmun, Shaker Heights
Karen Sue Wolfe, Plain City
Lisa Kristen Wolfe, Ashland
Pamela Sue Wolford, Stoutsville
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 Stotka Buckholz, Brook Park
Michael George Buffo, Canton
Carolyn Hinkle Clark, Huntington, WV
B.A. (West Virginia University);
M.A. (Marshall University)
Jeffrey Wade Collins, Oxford
Karen Ann Creed, Aurora
Thomas Walter Cummings,
Currytown, 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 Fagert, Youngstown
Richard Anthony Fenton, Portsmouth
Stephen Scott Fleck, Celina
Jeffrey C. Fogg, West Carrollton
B.S.
Maria Jeanette Fragoulis, Wintersville
Frederick Allen Frost, Wellsville
H. Robert Gaetano, Campbell

Paul Douglas Gammage, Columbus
 Scott M. Hussing, Tallmadge
 Craig Clifton Hyre, Elkins, WV
 B.S. (Pennsylvania State University)
 Scott Edward Keating, Lancaster
 Jeffrey Joseph Kiener, Pataskala
 B.S.
 Christian Alan King, Archbold
 Kenneth Marlin Kuhn, Niles
 B.S. (Youngstown State University)
 Suzanne Leah Forshey Leach, Jackson
 B.S. (Rio Grande College)
 Joaquin V. Lin, Beachwood
 B.A. (Miami University)
 Anthony Joseph Lorelli, Youngstown
 B.S. (Youngstown State University)
 Weston Ray Mangold, Dayton
 B.S. (Bowling Green State University)
 J. Alan Mannik, Sylvania
 George Martuccio, Girard
 B.S. (Youngstown State University)
 William Leonard Miller, Columbus
 B.S. (University of Dayton)
 Yoongie E. Min, Columbus
 B.S.
 Christine L. Mormino, Chesterland
 Thomas Frank Nagy, Perrysburg
 B.S. (Miami University)
 Terry William Nisbet, Middletown
 Douglas David Oney, Beach City
 Jeffrey R. Patterson, Austintown
 Craig Stephen Pennell, Ravenna
 Gilbert E. Pierce, Lexington
 B.A. (Miami University)
 Michael W. Raies, St. Clairsville
 James Richard Ranft, Fairborn
 B.S. (Bowling Green State University)
 Kathleen Schmidt Reuter, Columbus
 B.S.
 Stephen R. Roark, Waynesville
 Gary Stuart Scheer, Toledo
 B.S.
 Mark Allen Schoning, Ravenna
 John Robert Smith, Akron
 Ted Andrew Snyder, Mansfield
 Rebecca Ann Stump, Gallipolis
 B.S.N. (Ohio University)
 Deborah Ann Valido, Dayton
 B.S.
 William Michael Walk, Pittsburgh, PA
 Brian Edward Weber, Springfield
 B.A. (Miami University)
 Patrick Joseph Wellik, Britt, IA
 B.S. (University of Iowa)
 Todd David Winkler, Cincinnati

Mark Alan Yoder, Bluffton

College of Pharmacy

Dean: John M. Cassidy

Doctor of Pharmacy

Kathy Lower Fudge, Worthington

Bachelor of Science in Pharmacy

Cheryl Annette Bentley, Strongsville
 Jill Paige Bryant, Beavercreek
 Barbara Ann Bryson, Zanesville
 Mary Ann Buckingham, Wadsworth
 Leslie Ann Campbell, Columbus
 Yi-Yu Chen, Cincinnati
 Margaret Rose Conner, Kettering
 Anthony Adrian Cunningham, Dayton
 Mary Michele DiCarlo, Steubenville
 Jeffrey Michael Durthaler, Columbus
 Karen Jean Eckles, Columbus
 Mary Beth Fondriest, Dover
 Gregory Joseph France, Evansville, IN
 Felicia Victoria Frattaroli, Struthers
 Jill Marie Gerst, Columbus
 Kelly Ann Hall, Ashtabula
 Gale Lynn Hollowell, Worthington
 Eric Martin Hals, Columbus
 Matthew William Houser, Centerville
 Scott O'Keith Howard, Forest
 Wesley Brandt Hunter, Tallmadge
 Shelly Dawn Ickes, Dover
 Michael Anthony Inhat, Port Clinton
 Brent Richard Kelly, Columbus
 Matthew Stephen Kremin, Youngstown
 Janet Layne Lallathin, Belmont
 Livia Won Lee, Dublin
 Whitney Ellen Longwell, Columbus
 Laura Ann Lust, Columbus
 Tami Masuoka, Chardon
 Barbara Ann Matosky, Bedford
 Linda Marie McQueen, Cincinnati
 Mark Paul Mershon, Bristol, TN
 Steven Mitchell, Columbus
 Michael Eugene Orzo, Alliance
 Joanna Estelle Panopoulos, Canton
 Shawn Allen Pruchnicki, Loudonville
 Diane Lynn Puermer, Canfield
 Theresa Lynn Reinhard, Columbus
 John Thomas Remchick, Mansfield
 Joy Dianne Richesson, Columbus
 Renae Marie Rindler, Fort Recovery
 Dhanawanti Jagadish Sant, Columbus
 Angela Marie Selby, Cincinnati
 Patrick Church Shay, Mogadore
 Jennifer Kay Shepherd, St. Clairsville
 Diane Renee Simich, Brook Park
 Janette Marie Sohl, Mansfield
 Rebecca Allyson Stewart, Farmington
 Hill, MI
 Stacey Sue Strickler, Columbus
 Daniel John Testa, Struthers
 Julie Marie Sharp, Johnstown
 Kelly Beth Tong, Hillsboro

Kathleen Joy Vieson, Cincinnati
 Jean Marie Wrentmore, North Royalton
 Suzanne Shu-Huey Wu, Columbus
 Margo Jean Zeleznik, Chardon

College of Social Work

Dean: Richard E. Boettcher

Bachelor of Science in Social Work

Mekonen Gebreselassie Abraham,
 Agordat, Eritrea, Ethiopia
 Rosalind L. Anderson, Kenton
 Sophia Antjas, Marion
 Robyn Meryl Aurnou, Columbus
 Julie Annette Boblenz, Marion
 Joseph David Bodenhamer, Aston, PA
 Peggy Ann Brockman, New Albany
 Katherine Ann Brown, Worthington
 Michelle Denise Capoccio, Columbus
 Lynne Ann Case, Nevada
 Adrienne Lynne Chenaault, Canton
 Rhonda Elaine Clark, Columbus
 John Louis DuPrey, Columbus
 Elizabeth Ann Earl, Worthington
 Cecilia Willette Ey, Columbus
 Gail Euanna Faulder, Jackson Center
 Carolyn Louise Galgas, Parma
 Jill V. Gates, Columbus
 Keon Gysel Gregory, Gary, IN
 Molly Jo Grubbs, Bellefontaine
 Bonnie Lynn Hansen, Newark
 Jennifer Florence Helton, Cincinnati
 Mary Elizabeth Herold, Sandusky
 Gayle Ann Horton, Reynoldsburg
 Sharon Goldhardt Huffman, Sunbury
 Kathleen Suzanne Irwin, Columbus
 Shelley Kay Johnson, Newark
 Jerome Edward Kearns, Worthington
 Paul Robert Keiper, Lexington
 Ronald William Keller, Crestline
 Gilbert James Kerns, Jr., Newark
 Rebecca Ann Koldys, Grove City
 Julianna Dee Koob, Xenia
 Stephanie Robin Kovac, Lordstown
 Linda N. Lee, Columbus
 Tigest Fesseha Lemlem, Gondar, Ethiopia
 Anne Elizabeth Lytton, Bridgeport
 Dawn Louise McCoy, Lancaster
 Amy Lee McDaniel, Columbus
 Christine Sue McDevitt, Columbus
 Molly Ann McElfresh, Mansfield
 Marjorie Lynn Mapes, Pickerington
 M. Lucia May, Columbus
 Mary Lynn Ann Mayer, Parma
 Joyce Alene Middleton, Marion
 Pamela Anne Myers, Fairfax, VA
 Joy Linnette Napier, Willard
 Susan Lynn Neiswander, Greenville
 Polly Beth Northrop, London
 Scott Allen Phillips, Canal Winchester
 Ila Elaine Price, Marion
 Kimberlie Anne Price, Zanesville
 Robert Joseph Prines, Euclid
 Nancy Louise Putt, Wooster
 Michele Denise Racle, Lima

Clarissa Ann Reber, Columbus
Janet Ricci, Mentor
Mary Elizabeth Ricketts, Orient
Jennifer Anne Sagstetter, Columbus
Kay N. Schamp, Columbus
Sara Anne Schlachter, Toledo
Teri Lee Seas, Marion
Dale Lee Smallwood, Ashtabula
Amy Eleanor Smith, Lancaster
Karen Sue Storts, Columbus
Pamela Sue Strange, Lima
Judith Ann Teach, Upper Arlington
Joseph George Tomaszewski, Richmond Heights
Robert Anthony Voisard, Columbus
Virginia A. Whisman, 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 Avenill, 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 Bechtel, 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, Looneyville, WV B.S. (West Virginia University)
George Vincent Bohart, Lincoln, NE B.S. (University of Nebraska-Lincoln)
Joseph Paul Bonacquisti, Collingswood, NJ B.S. (Lebanon Valley College)
Michael Alan Bowman, Walton, KY B.S. (University of Kentucky)
Darla Anne Boyk, Pemberville 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 Rieser Byrum, Grove City B.A., M.S.
Thomas James Campagnolo, Bayonne, NJ B.S.
Daniel Cowen Carey, Cincinnati A.B. (Miami University)
Phyllis Ann Ciekot, 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 Eppich, Hincley 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 Hail, 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, Hincley B.S. (University of Toledo)
Randall William Kantzer, Marion
Victor Stewart Katz, Kensington, MD B.S. (University of Maryland)
Sandra 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 Borsetti Lehmkuhl, Lutherville, MD B.S. (Virginia Polytechnic Institute and State University)
Colleen Renee MacInnis, 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, Ellicott 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

Erle Douglas Murphey, Payne B.S.

Jean Marie Murphy, Deerfield B.S.

Heather Lynn Myers, Akron B.S. (University of Akron)

Roxane Gaskill Olson, Fairfield, ID B.S. (Oregon State University)

Yvonne Lucia Otero, Carson City, NV B.S. (University of Nevada-Reno)

Robert William Outzs, Coshocton

Steven Craig Parks, San Antonio, TX B.S. (Texas Technological University); M.S.

Scott Alan Pendleton, Bloomington

Mary Lynn Perdzock, Dayton B.S.

Hannah Marie Pitstick, Yellow Springs B.S. (Xavier University)

Ann Louise Porter, Mobile, AL
B.Music (Auburn University);
M.Music (University of Miami)

Kate Wemple Pouch, Columbus B.S.

Kimberly Irene Powell, Kent

John Walter Reveley, Englewood, NJ B.S. (Cook College-Rutgers); M.S., Ph.D.

Jeanne Marie Roan, Potomac, MD B.S. (Loyola College)

Hector J. Roman Barcelo, Lares, PR B.S. (Tuskegee University)

Peggy Lynn Rowan, North Canton B.A. (Miami University)

Bonnie Robin Rush, Grafton

Harry Estil Sanford, Wellsburg, WV B.S. (West Virginia University)

Pamela Egan Sawyer, Upper Arlington B.A. (Springfield College)

Lori Ann Schiefer, Marion B.S.

Douglas Robert Schmidt, Cincinnati B.S.

Sally Lynne Sifferlin, New Philadelphia

Marianne Geraldyn Skebe, Highland Heights B.S. (Cleveland State University)

Katherine C. Smith, Fairborn B.S. (Marshall 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. (Georgetown 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

Laila Ramona Vilums, Omaha, NE 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

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 circricular 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 Blankenbaker

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Italian

Lori Lynn Schwendeman

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Mathematics

William David Kalies
Michael Alan Titko

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 Warsing

**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**

Shari Lynette Ayers
Christopher David Chapman
Paul Steven Eisenstein
Donald John Fallon
Rachel Ann Hart
Stephanie Jeanne Herwick
Robert D. Icsman
Ruth Elaine Jackson
Christopher Martin Lott
Sean William Lynd
Amy Susan McKee
David Gerard Miller
Robert Allen Noggle
Heather Rachelle Ruland
Michele Louise Selig
Scott Allen Shanes
Kenneth Richard Sibley
Janet Sue Skarda
Joan Elizabeth Slattery
Leigh Anne Stahl
Robert Paul Stephens
Lisa Kay Tilton
Jau Uon Yu
Karla Jean Zimmerman

Summa Cum Laude

John James Antalis
Janice Lee Auble
Steven Lowell Ayers
Christopher Brent Balough
Kisa Ewing Barbour
Richard Leroy Beightler, Jr.
Martin Dean Bober
Kenneth E. Boyd
Linda Jean Broadbelt
Melissa Irene Brooks
Michael Scott Browning
Justine N. Burriss
Julie Anne Bush
Stephanie Christen Campbell
Leah Beth Clendening
Brian Kieth Compton
Suzanne Marie Compton
Adam Laban Cooper
William John Cooper
Donald B. Deal
Jill Cathleen Delaney
Clorinda Theresa DelGigante
Debra Lynn Demmitt
Mary Michele Dicarilo
Michael Louis Doty
Susan Disbennett Downey
Leonard Andrew Dudzinski
John Louis Duprey
Amy Mary Engelhardt
Jeffrey Earl Everett
H. Robert Gaetano
Lee Gasaway
Brian Neal Geiser
Sandrine Eve Geissler
Joan Ellen Gish
Roger Douglas Goddard
Jodi Sue Graham
Andrew Scott Gudgel

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
James Patrick Klejka
Patricia Marie Kinneer
Stephanie Robin Kovac
Rebecca M. Kummerer
Tammi Jo Kurty
Thaddeus J. Kwiatkowski
Ruth Ann Lada
Karen Marie LaFace
Robert Michael Latin
Linda Borsetti Lehmkuhl
Jennifer Lee Leymaster
Mary Margaret Lilko
Lori Ann Little
Cynthia B. Logan
Christopher Jay Lynn
Marjorie Lynn Mapes
Becky Lynn McConnell
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 Nordyke
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
Marines Rivera
Kassandra Diane Robenalt
Bonnie Robin Rush
Kay N. Schamp
Stephanie Kaye Scherger
Kevin Richard Schockling
Janden Elizabeth Schoeff
Angela Marie Selby
Donna Lynn Solinski
Kimberly Sue Sonner
Gregory Todd Steinmetz
William Ronald Stevens
Debra Kay Ray Swearingen
Peter Joseph Torok
Salvador Bernard Trinidad
Daniel Craig Troutner
Scott Alan Tutkovics
Lisa Kay Wallace
Jill Suzanne Weiner

Mary Elizabeth Welling
Virginia A. Whisman
David Bruce White
Melinda Dawn Whittington
Anna Marie Woodson
Robert William Yarrington
Dorothea Yoakum
James Robert Young
Vicki Ann Youngs

**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 Tuhela

**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 Richesson
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 Ralley

**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 Leeanne Britton
Anahita Keyhani

**Cum Laude
with Distinction in Horticulture**

Dwight Raymond Tingley

**Cum Laude
with Distinction in Industrial and
Systems Engineering**

Setiadi Widjaja

**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 Mariea
Thomas Dean McKinley
Valerie Lynn Merklin
Thomas Makar
William Howard Musolf
Susan René Opalenik
Stanley Joseph Rapiey
Jennifer Lynn Rusnak
Arthur Grant Stephens
Charles Patrick Sweeney
Martin Thurn
Anju Tripathi

**Cum Laude
with University Honors**

Mekonen Gebrelessi Abraham
John Charles Beck
Melanie Lee Bene
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 Riehle
Mark Anthony Russell
Roberto 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 Delehanty
Scott Eric Post
Vinh Kim Tran

**With Distinction in Natural
Resources Development**

Denis Michael Dooley
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 III
James Phillip Bentley
Martin Van French
Michael Lawrence Hitzhusen
Gayle Ann Horton
Tamarah Therese Parson
James I. Rodriguez
Christiënne Leigh Smith

With Honors in the Liberal Arts

Suzanne Michele Adams
Lisa Fay Cribbs
Paige Anne Crossley
William Paul DeMora
Ondrea Alexis Duto
Bradley David Egbert
Daniel W. Elwell
Ann Margaret Gamertsfelder
Joseph Lee Koen
Robert J. Lavigna

Stephen Todd Lingo
Matthew David McDaniel
Kristine Maria Meyer
Fredrick Mark Reeve
Ingrid Karen Ruf
Scott Patrick Santee
Cail 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 Badt
Karen Sue Barnes
Tina K. Bavelis
Jeffrey Walton Bell
Kimberly Ann Bell
David Andrew Bennett
Lori Anne Bennett
Christopher John Binder
Donald Alan Birchler
Kathleen Ann Boes
Joseph Paul Bonacquisti
Julianne M. Brink
Michael John Britsch
Mary Anne Brown
Julia Louise Brown-Herold
Michael George Buffo
Jeffery Scott Burris
June Kathryn Campbell
Kevin Giles Campbell
Marie Wallace Campbell
Kimberly Jean Carroll
Laurie Lynn Cermak
Linda Sue Chaffin
Cindy Jee-Sing Chang
Edith Chang
Jayne Ellen Charman
John Tilman Childs
Phyllis Ann Ciekot
Christine Louise Clark
Tracy Lea Click
Kari Michelle Cline
Kevin Ernest Cline
Joanne Marie Clouse
Lauren Hope Cohen
Kelly Ross Cole
Karin Jean Cook
Kelley Martin Cousin
Thomas Matthew Cox
Jennifer Elizabeth Craig
Stephen Allan Crane
Timothy Colin Crawford
Rod C. Crider
Martin Bryant Crombie
Timothy Lisle Cupp
Chad Alex Current
Michael David Curtis
Cheri Cyrus
Stephen Wayne Dailey, Jr.
Debra Ann Daniel
William Michael Davis

Jeffrey Shinault Day
Brandy Kaye Denisco
John Joseph DeVito
Julie Margaret Deyer
Michael Richard Dick
Nancy Sue Dickason
Greg Robert Emanuelson
Diane Marie Emlaw
Valerie Thompson Erwin
John Denoon Evans
Craig Mitchell Felton
John Robert Forche
Joann Friend
John Austin Fry
Jennifer Ruth Gallant
Michael Louis Gastier
Susan Marie Gillespie
Jon C. Gilliam
Roger Anthony Glenn
Robyn Helene Glickman
Todd Michael Goehring
Anna Marie Gossard
Eric J. Graffice
Virginia Ruth Gregg
Amy Christine Grissom
Diane Kathleen Gross
Mark Richard Grubb
Klaus Dieter Guter
Roberta Wilson Hall
Robin Lee Hall
Gale Lynn Hollowell
Jonda C. Harper
Daniel Louis Harmon
Paige Anne Harper
Catherine Ann Hartman
Ulf D. Hartwig
Russell John Harvey
Kristin Mae Haus
Kelly J. Heatwole
Wendy Jo Heck
Jennifer Lynn Heisel
Joetta Sue Heldman
David Russell Hermes
Laurie Anne Herraiz
Thomas Ralph Hetzei
Raymond Estler Heyd
Andrew Jay Higgins
Melinda Lou Hoffman
Albert Lee Hogan III
William Eugene Hopkins
David C. House
Scott O'Keith Howard
Joan Lynn Huffman
Susan Chiarello Hunter
Carolyn Marie Immel
Thisbe Marguerite Ingold
Michael Lee James
Patricia Lynnette Jones
Faith Denise Jurcyk
Randall William Kantzer
Christopher Jon Kaune
Jerome Edward Kearns
Katrina Marie Kehr
Amy Bronwyn Kendall
Gilbert James Kerns, Jr.
Lisa June Kikly
Sung Uk Kim
Robert Richard Klein
Karen Lynne Kline

Cathy Lynn Korikian
Haig Michael Korikian
Diane Louise Kumpf
Janet Layne Lallathin
Lawrence Wayne Lanum
Linda N. Lee
Amy Jo Leskey
Mary Margaret Liles
Leslie Jennifer Lowy
Christine Mary Luehrs
Lori Ann Mager
Maurine Witalec Maneely
Allen R. Markja
James Edward Martin
Valerie Anne Maseck
Tami Masuoka
Amy Lee McDaniel
Melissa Lee McDaniel
Marianne McDermott
Colleen Ann McFee
Gary Edward McNamara
Jozefa H. Mentrak
Catherine Jo Meyer
Mary Michelle Middeler
Julie Ann Miller
Mindy Lee Miller
James Richard Mitchell
William Thomas Moorhead
John Patrick Morgan
Richard Larry Morgan
Bradley Lawrence Mossbarger
Anthony Scott Mowrer
Connie Ann Mullins
Patrick Jon Murley
Jeffrey Ray Neher
Judith Nemeth
Dorothy Kathryn Nolan
Lisa Marie Novak
Teresa Marie O'Brien
Beth Ann Oehler
Douglas David Oney
Michael Eugene Orzo
Joel William Pankowski
Jacquelyn Kaye Parker
Kathleen Marie Parker
Ralph Jeffrey Peak
Sam Lawrence Penza
Sean Merle Pflaumer
Shelly Kathleen Phillips
Frank Polisena
Lauren Virginia Pollock
Joseph Edward Popely
Michael Edward Poth
Robert Joseph Prines
Michael Kenneth Provenza
Diane Lynn Puerner
James Richard Ranft
John Walter Reveley
Carol Jane Rice Lewis
Jonathan Andrew Rich
Chad Patrick Riedel
David William Riegel
Joseph Leo Riethman
Lori Beth Riga
Renaë Marie Rindler
Douglas Kent Ritterling
Barbara Ann Rogers
Paula Roush
Robert Wayne Sandrock

Harry Estil Sanford
Florence Michelle Santos
Patricia A. Sapp
Debra Sue Saunders
Christopher Michael Scowden
Gary Lee Sebach
Primrose Anne Sedmak
Nancy Lynn Shapiro
Pamela Sloan Shumate
Katherine Christine Smith
Stewart Shannon Smith
Christopher David Snyder
Jeffrey Ward Spychalski
Brice Anthony Stammen
Jeffery Edward Stedwill
Lora Jean Stilke
Steven Ernst Stivers
Robert William Stonebrook
Sandra Sudarsky
Sharyn Talbert
James Fritzen Taylor
Darren Howard Thompson
Lora Elizabeth Thompson
Jeffrey Ray Towery
Stephanie Leigh Trent
Charles Paul Wagner
Kirk Georges Walker
Katherine Ellen Walmsley
Joseph David Ward
Kathryn Jeanne Watkins
Lori Ann Waugh
Theodore Allen Wegert
James M. Westfall
Lisa Marie Wickizer
Alicia Anne Williamson
James David Wines, Jr.
Scott Alan Winget
Michael Wayne Wolfe
Natalie Jo Wolfinger
Kah Ong Wong
Lisa Kathleen Young
Susan Marie Zaworski
Craig Allen Zeroski
Marjana D. Zupcan

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THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FIFTY-FIRST MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, June 2, 1989

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.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Leslie H. Wexner, Sophia L. Paige, and Laurel A. Davis.

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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:

Educational Affairs	Deborah E. Casto, Chairman Hamilton J. Teaford, Vice Chairman John J. Barone Laurel A. Davis
Investments Committee	John W. Kessler, Chairman Shirley D. Bowser, Vice Chairman Milton A. Wolf
Standing Committee on Agricultural Affairs	Shirley D. Bowser, Chairman Steven D. Maurer, Vice Chairman, Ex Officio Deborah E. Casto
Student Affairs	John J. Barone, Chairman Leslie H. Wexner, Vice Chairman New Trustee Sophia L. Paige
Fiscal Affairs	John W. Kessler, Chairman Milton A. Wolf, Vice Chairman John W. Berry
Personnel Committee	John W. Berry, Chairman Shirley D. Bowser, Vice Chairman Hamilton J. Teaford
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	John J. Barone (1987-90)
University Hospitals Board	Shirley D. Bowser Hamilton J. Teaford

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.

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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.

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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.

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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.)

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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 graphs 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.)

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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.

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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.

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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. Klisares - 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.

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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.

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.

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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)

July 1, 1989 through June 30, 1990

Art Robert Shay

July 1, 1989 through June 30, 1993

Botany Tod F. Stuessy
Zoology Peter W. Pappas

August 25, 1989 through June 30, 1993

Physical Medicine and Rehabilitation Paul E. Kaplan

October 1, 1989 through September 30, 1990

Melton Center for Jewish Studies Tamar Rudavsky*
Slavic and East European Languages and Literatures David F. Robinson*

October 1, 1989 through September 30, 1993

History Joseph H. Lynch

*Acting Chairperson or Director

Reappointment of Chairpersons of Departments and Division and Director of School

July 1, 1989 through June 30, 1992

Theatre Firman H. Brown, Jr.

July 1, 1989 through June 30, 1993

School of Allied Medical Professions Stephen L. Wilson
Chemical Engineering Jacques L. Zakin
Division of Hospital and Health Services Administration Stephen F. Loeb
Microbiology John N. Reeve
Physiology Jackie D. Wood
Psychiatry Henry A. Nasrallah

October 1, 1989 through September 30, 1991

Political Science Randall B. Ripley

October 1, 1989 through September 30, 1993

Computer and Information Science Mervin E. Muller
Judaic and Near Eastern Languages and Literatures Frederic J. Cadora

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 Dutex 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. ALLAIRE, 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.

PERSONNEL ACTIONS (contd)

Professional Improvement Leaves (contd)

JANINA C. LATAK, 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

COOPERATIVE 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

June 2, 1989 meeting, Board of Trustees

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

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 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

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
Ciryam 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

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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

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William A. Baeslack III, Welding Engineering, effective 10/1/89
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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

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

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PROMOTION TO PROFESSOR

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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 MEDICINE
CLINICALS (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. Cury, 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 7/11/90, 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. Sciuilli, 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.

June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

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.

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Mr. Teaford:

Mr. Chairman, I would like to read an expression of appreciation for Provost and Vice President Myles Brand:

EXPRESSION OF APPRECIATION

Resolution No. 89-122

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.

EXPRESSION OF APPRECIATION (contd)

Mr. Berry:

It is very much deserved.

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Mrs. Bowser:

I would like to present a resolution of memoriam for Christine Yerges 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 Lambda 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.

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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 the Office 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

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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.

June 2, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Straub: (contd)

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.

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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 very fortunate 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

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

Resolution No. 89-124

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.

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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.)

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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		
Source	No. of Projects	Support Level
The Ohio State University Research Foundation	100	\$6,069,241.72
Engineering Experiment Station	69	\$ 423,826.00
Total	169	\$6,493,067.72
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

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

SUMMARY FOR APRIL 1989 (contd)

Background (contd)

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

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - April 1989

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)

\$150,000.00 - National Science Foundation, Washington, D.C., Analysis of Heat Transfer and Fluid Flow in Manufacturing of Glass-to-Metal Sealings in Electronic Components, Department of Mechanical Engineering (K. Vafai), 15 May 1989 through 30 April 1992. (Project 767420 - 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, Ia Expression by Macrophages from Bcg^r and Bcg^s Mice, Department of Microbiology (B. S. Zwillig), 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 (R. 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_A Receptors in the Developing Cerebellar Cortex, Department of Pharmacology (A. Frosthalm), 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)

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)

\$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)

\$67,300.00 - Department of Energy, Argonne, Illinois, The Physics of Cellular Automata and Coherence and Chaos in Classical, Many-Body Dynamical Systems, Department of Physics (C. Jayaprakash and F. A. Hayot), 1 May 1989 through 30 April 1990. (Project 766728 - Continuation)

\$60,646.00 - Department of Energy, Argonne, Illinois, The Molecular Characterization of the Lignin-Forming Peroxidase, Department of Horticulture - OARDC and Department of Horticulture (L. M. Lagrimini), 1 April 1989 through 31 March 1990. (Project 767373 - New)

\$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 Heteroarenes: Carbenic and Silicanioc 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)

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)

\$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)

\$34,705.00 - National Science Foundation, Washington, D.C., Phonetic Investigation of Metrical Structure in Orally Produced Poetry, Department of Linguistics (I. Lehiste), 1 October 1989 through 30 September 1990. (Project 766729 - 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. Merget), 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)

\$19,999.92 - Department of the Army, Army Materiel Command, Watervliet, New York, Optimum Preform Design for Rotary Forging, Engineering Experiment Station (T. Altan and R. Shivpuri), 22 March 1989 through 21 March 1990. (Project 767397 - New)

\$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)

\$17,324.00 - Department of Health and Human Services, Public Health Service, Region V, Chicago, Illinois, AIDS Education and Training: Meeting the Needs of the Public Health Service, Department of Family Medicine (L. L. Gabel), 28 September 1988 through 30 September 1989. (Project 767424 - 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

June 2, 1989 meeting, Board of Trustees

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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, 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)

June 2, 1989 meeting, Board of Trustees

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

\$54,867.80 - Wyeth Laboratories, Philadelphia, Pennsylvania, Phase II Evaluation of the Hemodynamic Effects of Intravenous Recainam in Patients Undergoing Elective Cardiac Catheterization, Department of Internal Medicine (D. B. Van Fossen and C. A. Bush), 1 January 1989 through 31 December 1989. (Project 766289 - Continuation)

\$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 766177 - 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)

\$6,000.00 - Wetlands Research, Inc., Chicago, Illinois, Ecosystem Design Criteria of the Des Plaines River Wetlands: Vegetation/Water Interactions, School of Natural Resources (W. J. Mitsch), 1 June 1989 through 31 October 1989. (Project 767431 - New)

\$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)

\$99,712.00 - Smokeless Tobacco Research Council, Inc., New York, New York, Effect of Smokeless Tobacco on Root Caries in Humans and Animals, Oral Biology (S. Rosen and K. Schroeder), 1 July 1989 through 30 June 1990. (Project 767426 - 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)

\$83,806.00 - Smokeless Tobacco Research Council, Inc., New York, New York, In Vivo and In Vitro Effects of Smokeless Tobacco on Oral Bacteria and Periodontal Disease, Oral Biology (K. Schroeder), 1 July 1989 through 30 June 1990. (Project 766816 - 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)

\$53,198.00 - Council on International Educational Exchange, New York, New York, Ministry of Education Intensive English in the U.S.A. for Japanese Teachers of English, English as a Second Language Program (R. N. Kantor), 1 April 1989 through 31 December 1989. (Project 767405 - Continuation)

\$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

June 2, 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)

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)

\$24,888.00 - Colorado School of Mines, Golden, Colorado, Hydrogen-Induced Cracking and Sulfide Stress Corrosion Cracking of High Strength OCTG Steel Used for Sour Well Services in the Petroleum Industry, Department of Materials Science and Engineering (G. R. St. Pierre), 1 September 1988 through 29 February 1992. (Project 767402 - New)

\$23,800.00 - Ten Members of the National Consortium of State Career Guidance Supervisors, National Consortium of State Career Guidance Supervisors, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766838 - 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 767147 - Continuation)

\$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 763118 - 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)

\$2,000.00 - American Astronomical Society, Washington, D.C., International Active Galactic Nuclei (AGN) Watch: Multi-Wavelength Monitoring of the Variable Seyfert Galaxy NGC 5548, Department of Astronomy (B. M. Peterson), 1 February 1989 through 31 January 1990. (Project 767309 - Continuation)

\$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)

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**

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

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.

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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.

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 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.

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 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

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.

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**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.

**Employment of Architects/Engineers and
Requestion for Construction Bids (contd)**

Background (contd)

Derby Hall Renovation (contd)

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.

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.

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.

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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.

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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.

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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:

**Report of Award of Contracts and
Establishment of Contingency Funds (contd)**

Background (contd)

Scott Hall Remodeling - Phase I (contd)

General Contract:	Good Home Maintenance, Columbus, Ohio
Amount:	\$82,812.00 *
Estimate:	\$180,150.00 *
Plumbing Contract:	Westland Mechanical , Columbus, Ohio
Amount:	\$44,500.00 *
Estimate:	\$67,100.00 *
HVAC Contract:	J. A. Guy, Dublin, Ohio
Amount:	\$60,600.00 *
Estimate:	\$75,700.00 *
Electric Contract:	Power National, Lancaster, Ohio
Amount:	\$39,267.00 *
Estimate:	\$54,500.00 *
Total All Contracts:	\$227,179.00 *
Contingency Allowance: (8.4% of construction cost)	\$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:

General Contract:	Martin Construction, Columbus, Ohio
Amount:	\$579,530.00
Estimate:	\$958,000.00
Total All Contracts:	\$579,530.00

**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.

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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 Trustees 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

**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.

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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.

June 2, 1989 meeting, Board of Trustees

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.

June 2, 1989 meeting, Board of Trustees

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

June 2, 1989 meeting, Board of Trustees

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.)

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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)



Office of the Treasurer

Riverwatch Tower - Suite B
 364 West Lane Avenue
 Columbus, OH 43201-1002
 Phone 614-292-6261
 Cable: OSU TRES UD

THE OHIO STATE UNIVERSITY
 ENDOWMENT SUMMARY
 May 19, 1989

Endowment Composition

	<u>06-30-88</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>05-19-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
Equities:				
Chicago Corp.	\$ 38,004,379	18.55%	\$ 42,180,382	17.49%
Nicholas-Applegate	10,454,591	5.10	11,902,867	4.93
Siebel	34,428,707	16.81	39,519,366	16.38
Mutual Fund	17,462,592	8.53	20,197,873	8.37
OSU Managed	<u>33,282,386</u>	<u>16.25</u>	<u>55,034,446</u>	<u>22.82</u>
Total Equities	\$133,632,655	65.24%	\$168,834,934	69.99%
Fixed Income:				
Boatmen's Trust (1)	\$ 21,547,467	10.52%	\$ 22,178,298	9.20%
Cambridge	921,925	0.45	903,496	0.38
Duff & Phelps	9,983,561	4.87	9,957,729	4.13
STW Fixed Income	22,300,069	10.89	22,949,087	9.51
OSU - GNMA	9,954,372	4.86	9,916,989	4.11
OSU Managed	<u>6,502,840</u>	<u>3.17</u>	<u>6,468,735</u>	<u>2.68</u>
Total Fixed Income	\$ 71,210	34.76%	\$ 72,374,334	30.01%
Total Equities & Fixed Income	\$204,842,889	100.00%	\$241,209,268	100.00%
Real Estate	\$ 43,089,186		\$ 36,568,317 (2)	
Total Portfolio	\$247,932,075		\$277,777,585	

(1) Formerly Centerre Trust.

(2) Real Estate reported at most recent appraised value.

Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value May '88 to May '89</u>	<u>Total Estimated Return</u>
Equity:			
Common Stock (Chicago Corp.)	3.65% (1)	18.32%	21.97%
Common Stock (Nicholas-Applegate)	1.75 (2)	26.66	28.41
Common Stock (Siebel)	4.44 (3)	22.77	27.21
Mutual Fund	2.97	24.05	27.02
Common Stock (OSU Managed)	5.01 (4)	13.68	18.69
Standard & Poor's Index	3.81	26.96	30.77
Real Estate:	4.37%	-0- (11)	4.37%
Fixed Income:			
Bonds (Boatmen's Trust, formerly Centerre Trust)	8.45% (5)	1.86%	10.31%
Bonds (Cambridge)	8.52 (6)	(2.67)	5.85
Bonds (Duff & Phelps)	8.85 (7)	1.48	10.33
Bonds (STW Fixed Income)	9.27 (8)	7.94	17.21
Bonds (OSU - GNMA)	9.95 (9)	1.57	11.52
Bonds (OSU Managed)	8.28 (10)	(0.59)	7.69
Merrill Lynch Corporate/ Government Master	9.13	1.53	10.66

- (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.
- (12) Endowment Fund Income through May 31, 1989, totaled approximately \$14,340,000.
- (13) Income from University Cash Investments through May 31, 1989, totaled approximately \$13,021,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>05-19-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-88)	\$247,932,075	Equities	\$113,029,853	40.69%
Principal Additions	12,838,074	Fixed Income	62,668,522	22.56
Principal Withdrawals	(166,410)	Real Estate	36,458,000	13.13
Change in Market Value	<u>17,173,846</u>	Cash	<u>65,621,210</u>	<u>23.62</u>
Current Market Value	<u>\$277,777,585</u>	Total Portfolio	<u>\$277,777,585</u>	<u>100.00%</u>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
30,000	U.S. Savings Bond, Series H*	OSU	\$0.00

Real Estate

Sale

No Activity

Total Investment

* Gift.

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
3,500	Becton Dickson & Co.	Chicago	54.4471	\$ 190,792.00	\$ 3,500.00
2,400	Boeing Co.	"	78.7500	189,156.00	4,320.00
6,300	Community Psychiatric Centers	"	30.2050	190,701.00	2,268.00
5,500	ConAgra, Inc.	"	34.6251	190,795.00	4,235.00
5,700	Corning, Inc.	"	33.0000	188,470.50	4,560.00
5,000	Crompton & Knowles Corp.	"	38.7824	194,237.00	6,200.00
11,000	First Alabama Bancshares	"	17.5000	192,500.00	9,240.00
5,000	Limited, Inc.	"	32.0430	160,540.00	1,200.00
5,000	Times Mirror Corp., Cl. A	"	37.7750	189,200.00	5,000.00
5,700	Applied Biosystems, Inc.	Nicholas- Applegate	35.9467	204,896.00	0.00
9,900	Comcast Corp., Cl. A	"	23.3952	231,612.50	1,188.00
10,000	Costco Wholesalers Corp.	"	22.9631	229,631.10	0.00
7,900	Oracle Systems Corp.	"	28.4596	224,870.50	0.00
400	Seagate Technology	"	13.3250	5,330.00	0.00
18,600	U.S. Health Care, Inc.	"	12.6044	234,521.40	3,720.00
50	Exxon Corp.*	OSU	44.6876	2,234.38	110.00
754	Evergreen Total Return Fund*	"	17.8800	13,472.83	0.00
16,500	Consolidated Rail Corp.	Siebel	35.8340	592,416.00	19,800.00
10,400	Mitchell Energy & Development Corp.	"	16.0685	<u>167,786.60</u>	<u>2,496.00</u>
				<u>\$3,593,162.81</u>	<u>\$67,837.00</u>

* Gift.

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
5,500	Aon Corp.	Chicago	33.5250	\$ 184,023.85	\$ 23,330.35
6,000	Dexter Corp.	"	28.9560	173,340.20	19,986.20
1,600	Digital Equipment Corp.	"	96.7570	154,702.03	6,798.03
3,500	Duke Power Co.	"	45.8620	160,284.14	9,913.64
3,100	Hilton Hotels Corp.	"	62.3790	193,166.95	38,032.17
3,600	Lockheed Corp.	"	46.6270	167,617.60	12,583.60
4,500	Millipore Corp.	"	32.0000	143,702.70	(10,152.30)
4,200	Morgan (JP) & Co., Inc.	"	36.4930	152,992.49	(3,730.51)
4,800	Precision Castparts Corp.	"	31.6250	151,800.00	(12,600.00)
4,930	Prime Motor Inns, Inc.	"	30.2750	148,930.32	(14,876.28)
6,000	Wisconsin Energy Corp.	"	26.6250	159,354.67	5,124.67
3,000	Woolworth (FW) Co.	"	51.6600	154,779.83	2,757.83
1,300	Albertson's, Inc.	Nicholas- Applegate	43.2500	56,145.12	18,908.17
13,200	Bear Stearns Cos., Inc.	"	14.0992	185,310.81	(12,058.79)
8,200	Fleetwood Enterprises, Inc.	"	24.9825	204,357.85	447.75
3,500	Household International, Inc.	"	50.7051	177,252.07	28,894.98
4,900	Inland Steel, Inc.	"	38.8109	189,873.15	4,709.15
8,900	Salomon, Inc.	"	23.6028	209,523.99	425.35
2,000	Union Bank of San Francisco	"	24.8750	49,750.00	(4,250.00)
600	Standard Products Co.*	OSU	29.0000	17,299.42	(250.58)
2,735	Van Kampen Merritt U.S. Gov't. Fund*	"	14.6000	39,931.00	(54.75)
8,400	Federal National Mortgage Assn.	Siebel	80.9350	679,243.33	421,761.48
9,000	Holiday Corp.	"	44.7500	402,196.57	156,097.57
1,300	Loews Corp.	"	92.2500	119,830.00	60,294.93
5,100	Pepsico, Inc.	"	47.7500	<u>243,159.88</u>	<u>103,419.88</u>
				<u>\$4,518,567.97</u>	<u>\$855,512.54</u>

* Gift.

The Ohio State University
Bonds/Notes

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
625,000	U.S. Treasury Bond 8.875% 08/15/17	Boatmen's	8.9788	8.9860	98.8438	\$ 617,773.44
900,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	9.3663	9.3998	94.7543	<u>852,789.06</u>
						<u>\$1,470,562.50</u>

The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
820,000	Community Program Loan Trust 4.500% 10/01/18	Boatmen's	55.4062	\$ 454,331.25	\$ 8,843.91
1,195,000	Northwestern Bell Telephone 8.125% 03/15/17	"	84.3842	1,008,390.70	10,565.70
900,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	97.9062	<u>881,156.25</u>	<u>(4,218.75)</u>
				<u>\$2,343,878.20</u>	<u>\$15,190.86</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
Building and 3.295 acres at 930 Kinnear Road	10.461	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 Kenny Road	10.47	1961	659,930	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	1968	170,000	570,000	06/87
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/87
Hanger at Don Scott Field (Loan)	.00	1973	32,664 (1)	32,664	N/A
Hanger 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	.00	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	1965	24,000	1,020,000	06/87
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/87
Undivided one-half interest in building and .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 Elterman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,441,258</u>	<u>\$36,568,317</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261
Cable: OSU TRES UD

MEMORANDUM

Subject: Proxy Solicitations
Date: May 31, 1989
From: James L. Nichols, Treasurer *James L. Nichols*
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

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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

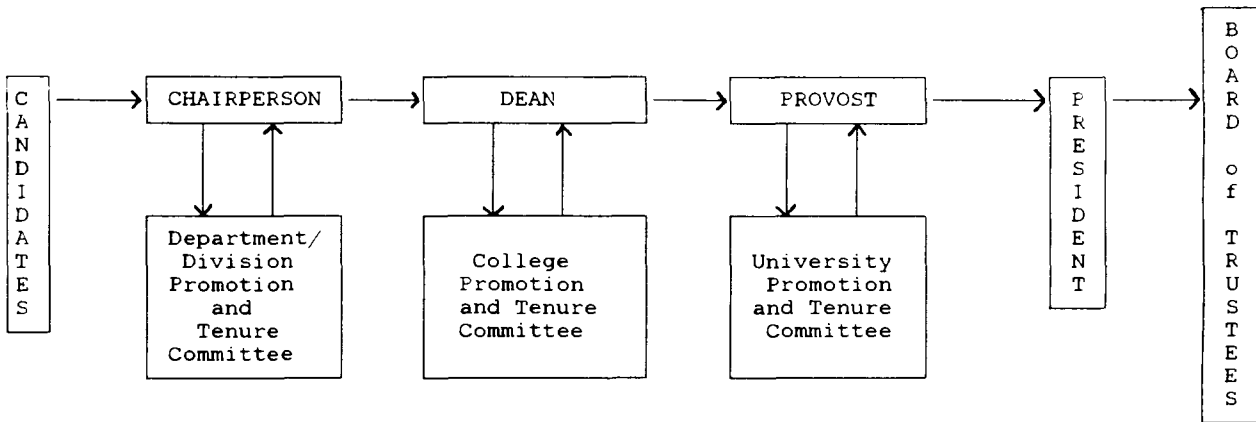
PROPERTY	PURCHASE or GIFT	OBTAINED FROM	ACQUIRED	INVESTED	APPRAISED VALUE	DATE APPRAISED
University area:						
1900 Kenny Road	P	OSU - Research Foundation	1961	659,930	1,150,000	06/87
1960 Kenny Road	P	Estate of Herrick L. Johnston	1971	1,320,693	2,300,000	06/87
1991 Kenny Road	P	Battelle Memorial Institute	1968	170,000	570,000	06/87
930 Kinnear Road	P	OMCO Building Corporation	1962	435,204	1,400,000	06/87
1100 Kinnear Road	P	Allis Chalmers Credit Corporation	1984	825,000	1,900,000	06/87
VA Clinic	P	Constructed with Endowment Funds	1979	3,767,261	6,460,000	02/85
West Granville Road						
2809 - 51 acres	P	Adah S. Prushing	1962	160,265	2,762,000	06/87
3025 - 49 acres	P	Herschel D. & Beryl L. Mitchell	1972	544,398	4,124,000	06/87
3253 - 76 acres	P	Geil McGurer et al	1968	310,538	6,472,000	06/87
3371 - 31 acres	P	Adah S. Prushing et al	1971	265,079	2,596,000	06/87
3371 - 32 acres (farm)	P	Adah S. Prushing et al	1986	2,078,666	2,720,000	06/87
3483 - 12 acres	P	Oran B. Love Construction Company	1965	24,000	1,020,000	06/87
3505 - 9 acres	P	Nancy M. (Delewese) Fridd et al	1968	17,114	727,000	06/87
Awaiting Sale						
760 Beautyview Court	G	Estate of Francis B. McCormick	1988	100,000	100,000	06/88
Delaware County - 47 acres	P	Nationwide Communications, Inc.	1971	100,793	137,000	06/87
Eiterman Road - 18 acres	G	Carol Kennedy Trust	1978	25,152	725,000	05/88
Harrisburg Pike - 95 acres	G	Leonard J. Imke, Jr.	1986	190,000	250,000	10/87
1375 S. Hamilton Road	G	Monterey Life Systems, Inc.	1986	95,000	95,000	01/86
Shier-Rings Road - 21 acres	G	Carol Kennedy Trust	1978	241,848	950,000	05/88
				\$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



UNIVERSITY-LEVEL PROMOTION AND TENURE RESULTS FOR 1988 AND 1989

	1988			1989		
	Total Number of Recommendations	Yes	No	Total Number of Recommendations	Yes	No
TOTAL	167	158 (6)*	9	151	142 (5)*	9
PROFESSORS						
Promotion	36	35	1	42	39	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

COLLEGE	1986-87		1987-88		1988-89	
	On Cycle	Off Cycle	On Cycle	Off Cycle	On Cycle	Off Cycle
Agriculture	11	2	4	1	12	
Cooperative Extension	38	1	23		11	
Arts	9		6		11	
Biological Sciences	2	1	4		3	
Business	5	1	9		6	
Dentistry	1*		4		5	
Education	7		6	2	9	
Engineering	13		17		14	
Home Economics	3	1	4		3	
Humanities	11	1	13	2	12	
Law	1		1		2	
Libraries	2	1	5	1	4	
MPS	15		22		11	
Medicine	22		25	1	17	
Nursing	1		0		0	
Optometry	0		1		1	
Pharmacy	1		2		1	
SBS	8		6	2	19	
Social Work	2		1		2	
Vet Med	5		4	1	8	
	<hr/>		<hr/>		<hr/>	
TOTAL REGULAR FACULTY	157	8	157	10	151	
Agriculture Adjunct	1					
Bio Sci Adjunct	1				1	
Dentistry Clinical	1				3	
Education Adjunct			1			
MPS Adjunct					1	
Medicine Adjunct	1					
Medicine (Aux/Clinical)	17		20		17	
Medicine (Regular Clinicals)	2				27	
Pharmacy Clinicals	4		1		5	
Vet Med Clinicals			1			
	<hr/>		<hr/>		<hr/>	
	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.



PROGRAM UPDATE

February 1989

Response To The 1988 Drought

Planning, coordination and communication are the keys to a successful crisis response. When in drought, do like we did:

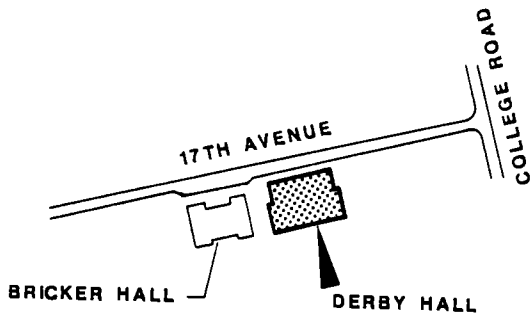
- Get the experts together fast.*** Ohio State's College of Agriculture put together a task force on drought. Within hours of its formation, hundreds of answers to drought questions were flying electronically from campus to county Extension offices. Within the week, a satellite TV broadcast addressed 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

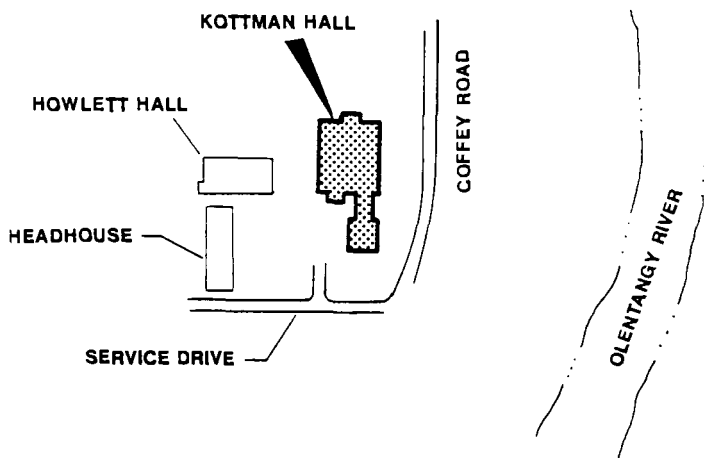
Adopted by the Board of Trustees June 2, 1989
(See page 1367)

DERBY HALL RENOVATION



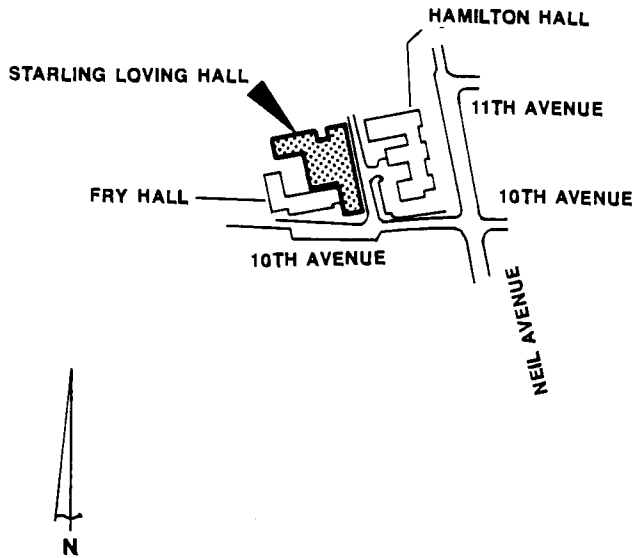
**OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989**

KOTTMAN HALL BIOTECHNOLOGY CENTER IMPROVEMENTS



OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989

STARLING LOVING HALL PATHOLOGY PHOTO STUDIO AND MICROSCOPY LABORATORY



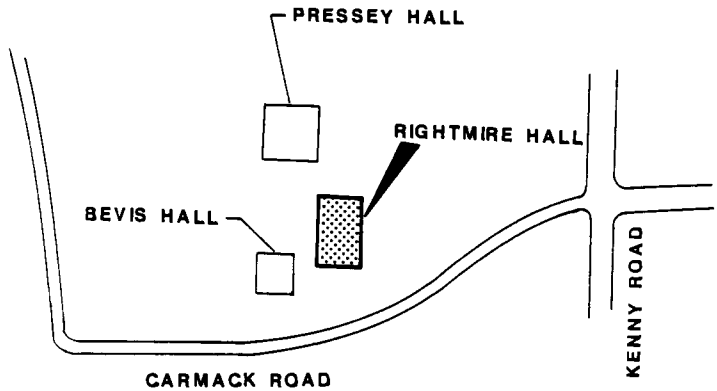
**OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989**

APPENDIX LVIII

RIGHTMIRE HALL RENOVATION, PHASE II

**Adopted by the Board of Trustees June 2, 1989
(See page 1369)**

RIGHTMIRE HALL RENOVATION PHASE II



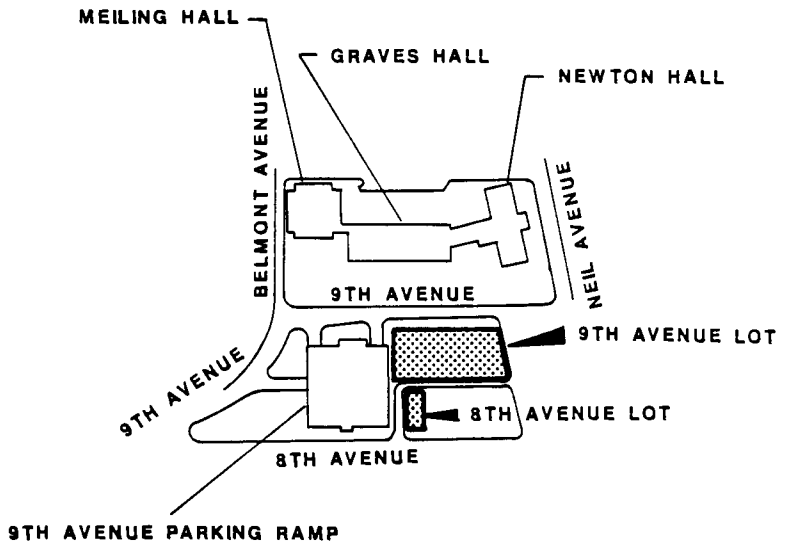
**OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989**

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



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

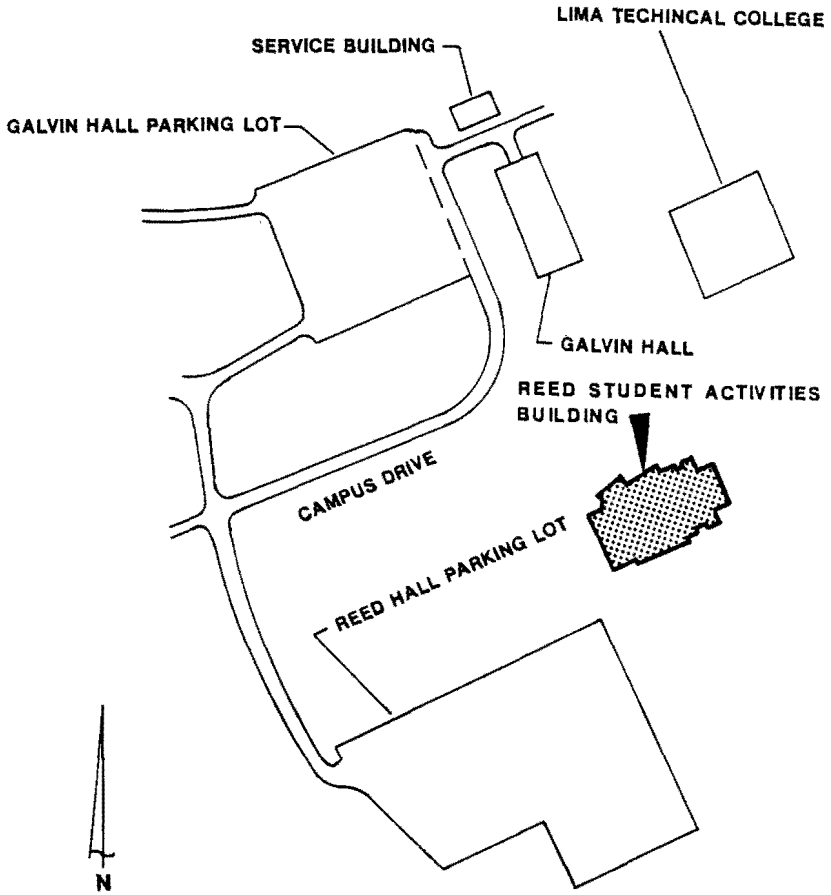
Tabulation of Bids

Bids received by The Ohio State University on April 11, 1989. Bids opened by Tamara Bell and tabulated by Jerry Pullins. Awards indicated with an "*".

General Contract - Masonry	Estimate	J & P Paving *	Walter Assoc.	Trisco Systems	Grunwell Cashero
Base Bid - No Alternates	\$28,250.00	\$17,872.00	\$23,221.00	\$23,891.00	\$25,079.00
Total General Contract - Masonry	\$28,250.00	\$17,872.00	\$23,221.00	\$23,891.00	\$25,079.00

General Contract - Roof	Estimate	New Tech *	Argus Roofing
Base Bid - No Alternates	\$127,000.00	\$124,871.00	\$137,460.00
Total General Contract - Roof	\$127,000.00	\$124,871.00	\$137,460.00

LIMA CAMPUS MASONRY REPAIRS AND ROOF REPLACEMENT



**OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989**

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

QARDC - FISHER AUDITORIUM ROOF REPLACEMENT

Tabulation of Bids

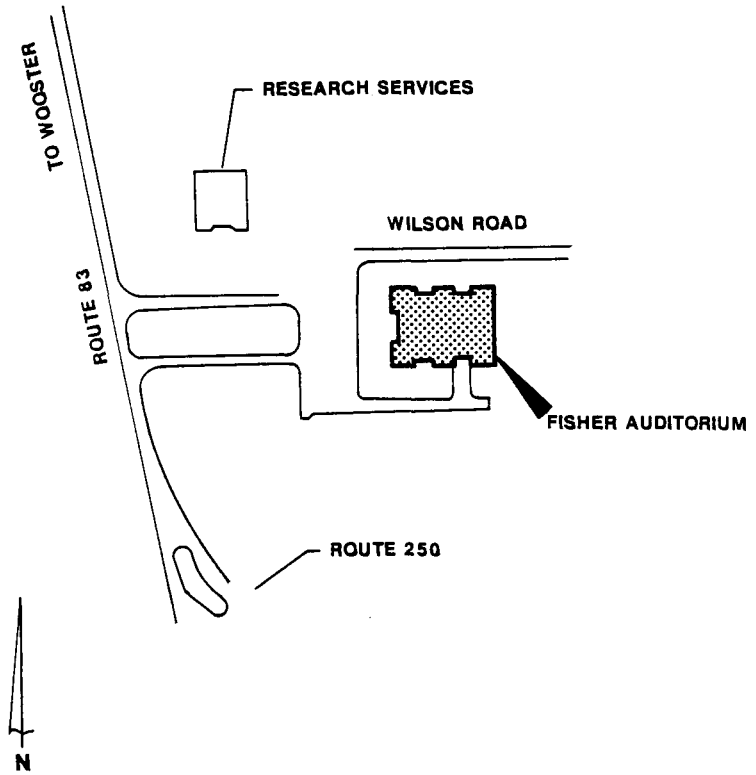
Bids received by The Ohio State University on April 25, 1989. Bids opened by Tamara Bell and tabulated by John Prazier. Awards indicated with an "*".

General Contract	Estimate	Franklin Roof *	Northern Ohio Roofing	Hick's Roofing	Atlas Single Ply System
Base Bid - No Alternates	\$64,100.00	\$44,700.00	\$47,520.00	\$47,940.00	\$48,349.00
Total General Contract	\$64,100.00	\$44,700.00	\$47,520.00	\$47,940.00	\$48,349.00

	Simon Roofing	Falcon Roofing	Building Tech	Beidler-Taylor	Mid American
Base Bid - No Alternates	\$49,688.00	\$49,886.00	\$52,234.00	\$52,897.00	\$54,210.00
Total General Contract	\$49,688.00	\$49,886.00	\$52,234.00	\$52,897.00	\$54,210.00

	Cheney Roofing	Edwards Roofing
Base Bid - No Alternates	\$57,960.00	\$59,800.00
Total General Contract	\$57,960.00	\$59,800.00

OARDC FISHER AUDITORIUM ROOF REPLACEMENT



OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989

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 "**".

General Contract	Estimate	Good Home Maintenance *	Ed Ross	Waller & Lund	Functional Development
Base Bid	\$128,500.00	\$53,976.00	\$54,460.00	\$56,330.00	\$56,745.00
Alt. G-1 (Rooms 283 & 283A)	\$31,400.00	\$13,862.00	\$19,750.00	\$19,980.00	\$19,225.00
Alt. G-2 (Rooms 285-289)	\$20,250.00	\$14,974.00	\$18,970.00	\$23,960.00	\$24,755.00
Total General Contract (Includes all alternates)	\$180,150.00	\$82,812.00	\$93,180.00	\$100,270.00	\$100,725.00

	M & P Constr	J & M Bennett	Allen Ballew	CW Constr	Williamson
Base Bid	\$74,200.00	\$65,400.00	\$83,934.00	\$83,900.00	\$95,820.00
Alt. G-1 (Rooms 283 & 283A)	\$15,200.00	\$21,400.00	\$19,920.00	\$19,439.00	\$17,728.00
Alt. G-2 (Rooms 285-289)	\$17,000.00	\$24,000.00	\$18,071.00	\$25,289.00	\$16,157.00
Total General Contract (Includes all alternates)	\$106,400.00	\$110,800.00	\$121,925.00	\$128,628.00	\$129,705.00

	Scherl-Wilson
Base Bid	\$89,900.00
Alt. G-1 (Rooms 283 & 283A)	\$22,200.00
Alt. G-2 (Rooms 285-289)	\$22,300.00
Total General Contract (Includes all alternates)	\$134,400.00

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

SCOTT HALL REMODELING - PHASE I

Tabulation of Bids (Cont)

Plumbing Contract	Estimate	Westland *	Marco	Farber	J. A. Croson
Base Bid	\$40,000.00	\$32,000.00	\$35,300.00	\$34,000.00	\$37,489.00
Alt. P-1 (Rooms 283 & 283A)	\$27,100.00	\$12,500.00	\$9,800.00	\$11,900.00	\$10,989.00
Total Plumbing Contract (Includes all alternates)	\$67,100.00	\$44,500.00	\$45,100.00	\$45,900.00	\$48,478.00

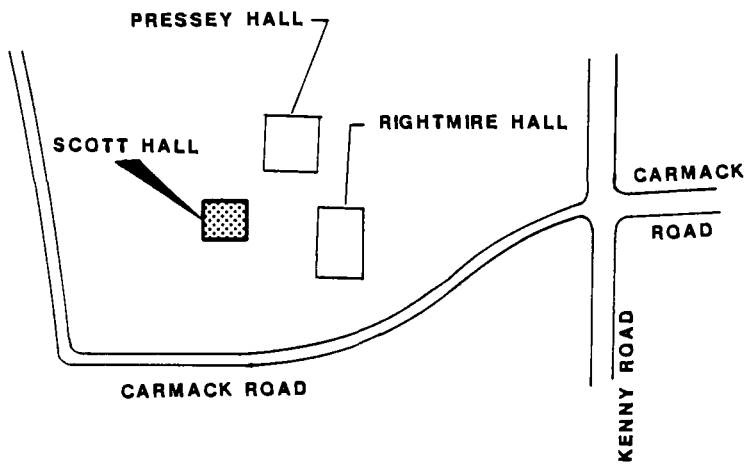
Radico

Base Bid	\$40,800.00
Alt. P-1 (Rooms 283 & 283A)	\$8,800.00
Total Plumbing Contract (Includes all alternates)	\$49,600.00

HVAC Contract	Estimate	J. A. Guy *	Marco	Farber
Base Bid	\$52,000.00	\$37,300.00	\$39,700.00	\$48,100.00
Alt. H-1 (Rooms 283 & 283A)	\$17,700.00	\$17,000.00	\$17,500.00	\$15,449.00
Alt. H-2 (Rooms 285-289)	\$6,000.00	\$6,300.00	\$12,000.00	\$6,300.00
Total HVAC Contract (Includes all alternates)	\$75,700.00	\$60,600.00	\$69,200.00	\$69,849.00

Electric Contract	Estimate	Power National *	Reco	Claggett	Prush & Roman
Base Bid	\$38,000.00	\$27,274.00	\$30,300.00	\$30,220.00	\$34,457.00
Alt. E-1 (Rooms 283 & 283A)	\$9,000.00	\$4,882.00	\$4,800.00	\$5,763.00	\$5,917.00
Alt. E-2 (Rooms 285-289)	\$7,500.00	\$7,111.00	\$8,900.00	\$8,625.00	\$9,833.00
Total Electric Contract (Includes all alternates)	\$54,500.00	\$39,267.00	\$44,000.00	\$44,608.00	\$50,207.00

SCOTT HALL REMODELING PHASE I



**OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989**

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

OHIO STADIUM - REHABILITATION OF EXTERIOR CONCRETE

Tabulation of Bids

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 "*".

General Contract	Estimate	Martin Constr. *	J & P Paving	Walter Assoc.	Central Ohio Bldg
Base Bid	\$958,000.00	\$579,530.00	\$679,186.00	\$771,754.50	\$1,049,849.00
Total General Contract	\$958,000.00	\$579,530.00	\$679,186.00	\$771,754.50	\$1,049,849.00

Alternates not taken:

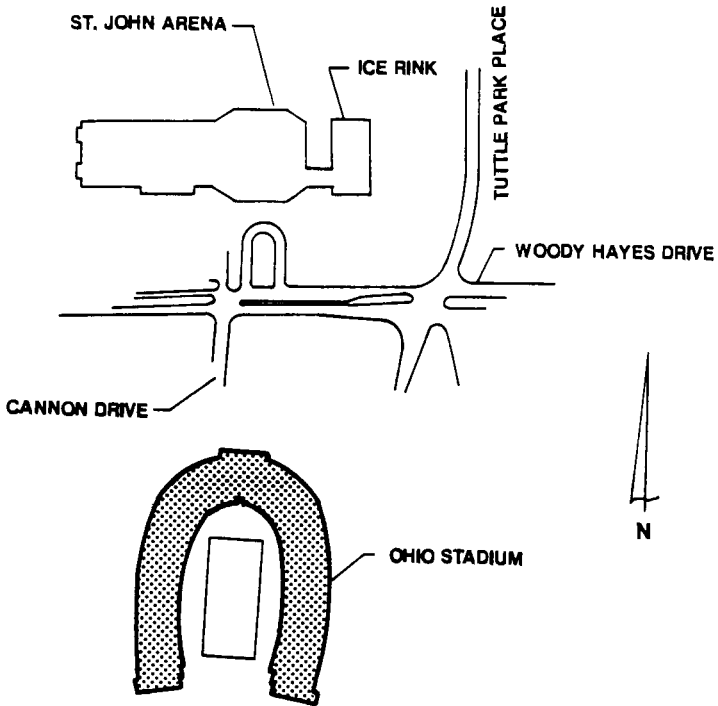
G-1 (Concrete Color Coating)	\$185,000.00	\$85,388.00	\$143,500.00	\$59,770.00
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General Contract	Detell
Base Bid	\$1,046,607.50
Total General Contract	\$1,046,607.50

Alternates not taken:

G-1 (Concrete Color Coating)	\$117,376.00
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OHIO STADIUM REHABILITATION OF EXTERIOR CONCRETE



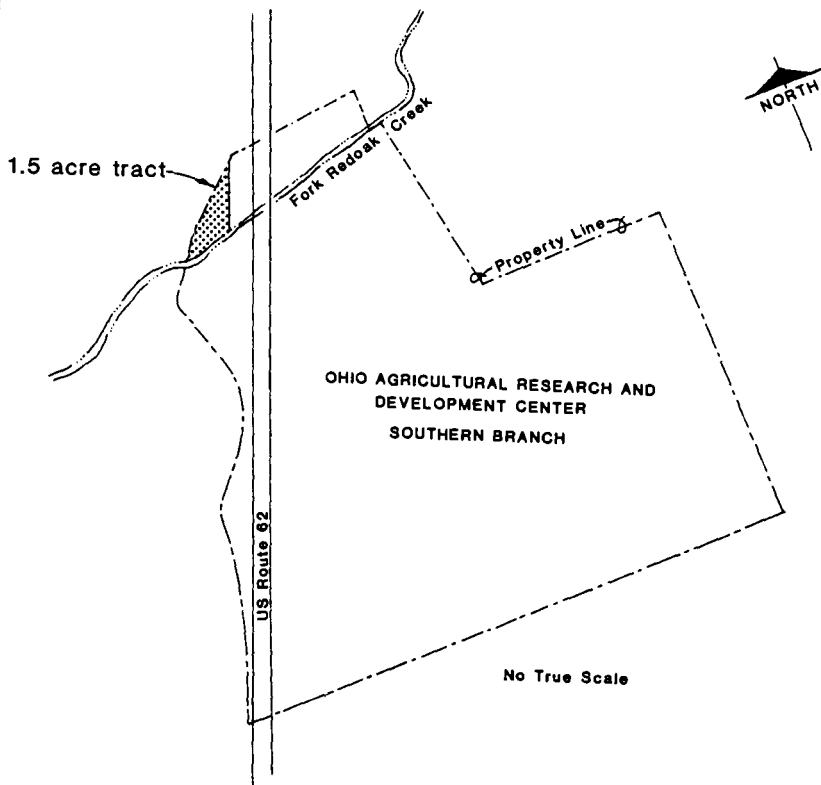
OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989

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



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

Budgeted Resources		
Central Campus		
State Appropriations		\$297,550,000
Student Fees		
Instructional, General & Tuition	153,650,000	
Non-Credit Instruction	5,000,000	
Subtotal Student Fees		\$158,650,000
Other Resources		
Federal Grants and Contracts	109,800,000	
Ohio Grants and Contracts	15,050,000	
Local Grants and Contracts	13,140,000	
Private Gifts and Grants	60,660,000	
Endowment Income	10,050,000	
Departmental Sales & Services	28,770,000	
Auxiliary Sales & Charges	85,950,000	
Hospital Sales & Services	222,270,000	
Other Sources	14,090,000	
Subtotal Other Resources		\$559,780,000
Total Central Campus		\$1,015,980,000
Regional Campuses		
State Appropriations	13,330,000	
Student Fees	9,940,000	
Other Resources	3,490,000	
Total Regional Campuses		\$26,760,000
OARDC		
State Appropriations	20,040,000	
Federal	6,600,000	
All Other	3,900,000	
Total OARDC		\$30,540,000
Grand Total - Resources		\$1,073,280,000
Budgeted Uses		
Central Campus		
Educational and General Expenditures	687,190,000	
Auxiliaries	92,910,000	
Hospital	235,830,000	
Total Central Campus		\$1,015,930,000
Regional Campuses		
ATI	6,430,000	
Lima	5,680,000	
Mansfield	5,070,000	
Marion	4,430,000	
Newark	5,120,000	
Total Regional Campuses		\$26,730,000
OARDC		\$30,540,000
Grand Total - Uses		\$1,073,200,000

UBP/June 2, 1989

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RECORD OF PROCEEDINGS
OF THE
BOARD OF TRUSTEES
OF THE
OHIO STATE UNIVERSITY

COLUMBUS

July 1, 1989 to June 30, 1990

VOLUME 1

1989-1990

THE OHIO STATE UNIVERSITY

Edward H. Jennings, President

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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.

** ** **

July 7, 1989 meeting, Board of Trustees

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.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Sophia L. Paige, and Laurel A. Davis.

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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 stand point 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.

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

July 7, 1989 meeting, Board of Trustees

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

CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)

Mr. Marsh: (contd)

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 happen 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.

CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)

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.

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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.

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HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

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 that completes my report, Mr. Chairman.

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July 7, 1989 meeting, Board of Trustees

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.

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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.

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**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.

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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:

Boatmen's Trust Company	\$20,000,000
Cambridge Financial Group, Inc.	\$ 1,000,000
The Chicago Corporation	\$17,500,000
Duff and Phelps Investment Management Company	\$10,000,000
W.R. Lazard and Company (Domestic Index Fund) (New Appointment)	\$10,000,000
R. Meeder and Associates, Incorporated (Small Capitalization Index Fund) (New Appointment)	\$15,000,000
Neuberger & Berman Mutual Funds:	
Guardian Fund	\$ 2,000,000
Partners Fund	\$ 1,000,000

July 7, 1989 meeting, Board of Trustees

**APPOINTMENT OF INVESTMENT ADVISORS
AND REAPPOINTMENT OF INVESTMENT ADVISORS (contd)**

Nicholas-Applegate Capital Management	\$10,000,000
Siebel Capital Management, Incorporated	\$13,500,000
STW Fixed Income Management, Incorporated	\$20,000,000
Wells Fargo Investment Advisors (Standard and Poor 500 Index Fund) (New Appointment)	\$30,000,000
Wells Fargo Investment Advisors (International Equity Index Fund) (New Appointment)	\$10,000,000

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 announced 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."

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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.)

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ACADEMIC AFFAIRS COMMITTEE

Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

July 7, 1989 meeting, Board of Trustees

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.

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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.

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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.

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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:

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

NEW RULE

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.

July 7, 1989 meeting, Board of Trustees

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.

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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.

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 antiherpetic 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.

July 7, 1989 meeting, Board of Trustees

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.

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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.

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July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS

Resolution No. 90-12

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

July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointment of Chairpersons of Departments and Division and Director of School (contd)

October 1, 1989 through September 30, 1993

Electrical Engineering
Family and Community
Sociology

Daniel B. Hodge
Mary G. MacVicar
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
Family Medicine
Horticulture
School of Music
School of Natural Resources
Preventive Medicine

Susan L. Josephs*
Patrick J. Fahey*
Steven M. Still*
Donald Harris*
John F. Disinger*
Douglas A. Rund*

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
Division of Mining Engineering

Jerrold R. Voss
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.

July 7, 1989 meeting, Board of Trustees

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

JOHN C. HUNTINGTON, Professor, Department of History of Art, change leave from Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

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. Gaueman, 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.
Halim-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, III
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.

FAMILY MEDICINE

ATTENDING

Fahey, Patrick
Griggs, Roland C.
Guthrie, Robert M.
Martin, Ralph A.
Sickles, Trent
Williams, P. Tennyson

COURTESY

Adrian, William
Bohlen, John
Burrier, Gail W.
Dils, Lawrence
Gahman, Frank
Geron, Michael

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
FAMILY MEDICINE (contd)

LIMITED

Anderson, F. James
Bayne, Bonnie J.
Beggan, Bryan E.
Cook, 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

PERSONNEL ACTIONS (contd)

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.

COURTESY

Fleisman, Bruce L.
Davakis, Nicholas J.
Dixon, Evan W.
Fisher, John A.
Grabner, Harry L.
Kirschner, Stephen D.
Klasu, Andrew P.
Lach, Ralph
Murnane, Michael R.
Nichols, Allan J.
Rose, Stewart M.
Terry, Richard F.

LIMITED

Arn, Anthony
Auseon, John Charles
Davis, William R.
Dernbach, Frances D.
Farhat, Assem Z.
Good, Arnold P.
Grodin, 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

Barrett, James Lloyd
Bechtel, Mark A.
Bisaccia, Emil
Finn, James W.
Gardner, Edmond A.
Hamilton, James F.
Hedrick, Sterling W.
Knox, David Wayne
Long, Roland Ellsworth
Parks, Alan J.
Rau, Robert C.
Scarborough, Dwight A.
Verona, Robert D.
Williams, Homer E.
Yoder, Frank W.

LIMITED

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.

July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (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

Thomas, Fred B., Director
Caldwell, James H.
Fromkes, John J.
Kirkpatrick, Robert B.
Mekhjian, Hagop S.

COURTESY

Levin, Douglas M.
May, Eugene S.

LIMITED

Gillespie, James R.
Miller, Scott M.
Thomas, David B.

DIVISION - GENERAL MEDICINE

ATTENDING

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.
Lefkowitz, Jeffrey A.
Marks, Jack
Martin, Daniel R.
Murphy, Robert J.
Pintz, Evelyn E.

COURTESY

Bansal, Girraj K.
Boudoulas, Olga
Davies, A. Robert
Delaveris, Steven L.
Dixon, Gerald F.
Keith, Paul F.
Lichtblau, Steven H.
Laufman, Leslie R.
Murphy, Link R.
Tallo, Diane
Guy, Jerry T.
Edgin, Richard A.

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)

ATTENDING (contd)

Swindells, Susan
Walzak, Doris E.
Washington, Sharon E.

LIMITED

Ahuja, Anita
Al-Awwa, Abdulkader
Alfes, 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.
Mastrorade, 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.
Rumancik, 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.
Sobecki, Lurette M.
Spearman, Paul W.
Spech, Richard A.
Steckschulte, Elizabeth
Steckschulte, Mark
Stevens, Harold C.
Thompson, Craig R.
Trout, Ann M.
Walz, Elizabeth T.
Wachendorf, Judith M.
Wilmer, William A.

DIVISION - HEMATOLOGY AND ONCOLOGY

ATTENDING

Balcerzak, Stanley P., Director
Avalos, Belinda R.

COURTESY

Gams, Richard A.

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.
Triozi, 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.

COURTESY

Spagna, Vincent A.

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.

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.

COURTESY

Borland, Duncan B.
Parker, James W.
Wise, Gary R.

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

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'Rourke, Donald Eugene

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
OBSTETRICS AND GYNECOLOGY (contd)

LIMITED

Ault, Kevin A.
Barg, Michael S.
Dearmont, Karen E.
Diaz, Donna T.
Douglas, James W.
Eaton, Lynn A.
Farringer, Bruce E.
Fleming, Christopher M.
Graven, Nadine E.
Gretchen, Peggy A.
Harrington, Beverly M.
Hayes, Rosalind A.
Leard, Rita A.
Paraskos, John P.
Pagano, Trina M.
Parker, Michael S.
Scalzone, John M.
Shamley, Kirk T.
Shibley, Kirk A.
Sonek, Jiri D.

COURTESY

Perez, Antonio
Petitt, George P.
Richards, Stephen R.
Robinson, Raymond E.
Rogers, Philip A.
Russ, John S.
Sacolick, Alan Robert
Sawaya, George A.
Schaeffer, Karl Ira
Sprague, Michael S.
Stempel, Laurence E.
Strafford, J. Craig
Veach, J. Douglas
Vorys, Nichols
Vosburgh, Lee

OPHTHALMOLOGY

ATTENDING

Benes, Susan
Bennett, Robert
Bremer, Don L.
Bruce, Robert A., Jr.
Burns, John A.
Cahill, Kenneth V.
Chambers, Robert B.
Collins, Elmer C.
Craig, Elson L.
Dangel, Matthew
Davidorf, Frederick H.
Dingle, J.B.
Gerace, Ann
Havener, William H.
Hickey, Charles J.
Huheey, Marilyn
Kapetansky, Frederick

COURTESY

Baker, Norman D.
Beran, Robin F.
Besson, Michael J.
Carroll, C. Patrick
Crocchi, Henry
Davidoff, Elliot
Denlinger, David E.
Farber, Sanders M.
Garvin, J. Charles
Gupta, Mohinder K.
Higbee, John W.
Kitchen, Calvin B.
Kuhr, Lora J.
Lembach, Robert E.
Marquardt, John L.
McGowan, Kathleen A.
McKinlay, Robert T.
Minning, Carl A., Jr.

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.
Rehmar, 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 (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
OTOLARYNGOLOGY

ATTENDING

Kelly, David Robert
Miglets, Andrew W.
Saunders, William H.
Siegle, Ronald J.

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.

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
Ayes, 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

Albarracin, Narciso S.
Hamoudi, Ala B.
Hamoudi, Ayser C.
Qualman, Stephen J.
Zwick, David L.

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
Isenhardt, 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, III, 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.
Batsky, Donald L.
Bolon, Claire E.
Bolton, Eileen C.
Bonneau, Amy J.
Brookens, Margaret A.
Carpenter, Denise L.
Connor, Patricia (Benson)
Creceilius, 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.

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
PEDIATRICS (contd)

LIMITED (contd)

Mosher, Gayle A.
Murtagh, Jennifer J.
Nahouraii, Robert A.
Nankervis, Craig A.
O'Doriso, 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

COURTESY

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.

COURTESY

Charles, Doris I.

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

COURTESY

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.

Lee, Young-Mee

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.
Stern, Stephen L.
Weller, Ronald A.

COURTESY

Goldberg, Donald

LIMITED

Axelsson, 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.
Join, 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.

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, Shahnour 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.
Freeddy, 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.
Irsik, Ronald D.
Magee, David J.
McConnell, Charles T.
McGhee, Robert B.
Morris, Christopher S.
Oehler, Mary C.
Pema, 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

COURTESY

Neal, Clarence J., Jr.
Schroeder, Kathleen L.
Walters, John D.

LIMITED

Davis, John B.
Fleser, Carl R.
Nemecek, Marcia M.
Wohlford, Mark E.

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, Marlin F.
Wallace, William R.

COURTESY

Cheek, John Arthur
Fraser, Bruce A.
Kaye, William R.
Murphy, T. Michael
Scheetz, Richard E. Jr.

LIMITED

Amborski, James D.
Anderson, Mark W.
Hum, Scott A.
Loetscher, Christian A.
Purdy, William David
Stroncsek, 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.

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July 7, 1989 meeting, Board of Trustees

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.

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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

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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.

July 7, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans: (contd)

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 question 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 over emphasize 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:

Thank you, Luke. The Undergraduate Student Government, David Straub.

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.

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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

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?

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.

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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.

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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

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	121	\$ 9,190,612.15
Engineering Experiment Station	69	\$ 1,221,004.00
Total	190	\$10,411,616.15

The Ohio State University Development Fund

Establishment of Named Funds

The Sarah Eliza and Martin Luther Dickey
Memorial Fund in Electrical Enineering
(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

July 7, 1989 meeting, Board of Trustees

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

July 7, 1989 meeting, Board of Trustees

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. Altan), 1 May 1989 through 30 April 1990. (Project 767477 - Continuation)

\$584,158.00 - Department of Labor, Bureau of Labor Statistics, Washington, D.C., National Longitudinal Surveys of Labor Market Experience, Round XI, Center for Human Resource Research (R. J. Olsen), 1 October 1988 through 30 September 1990. (Project 766448 - 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 31 May 1990. (Project 763284 - Continuation)

\$179,763.00 - Department of the Air Force, Washington, D.C., "Big Ear" Range Studies, ElectroScience Laboratory, Department of Electrical Engineering (J. D. Young), 3 May 1989 through 2 August 1990. (Project 767467 - New)

\$172,432.00 - 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 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)

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)

\$127,619.00 - National Science Foundation, Washington, D.C., Optimal Design of Large-Scaled Structures with Multianalysis-Type Constraints, Department of Civil Engineering (O. G. McGee), 15 April 1989 through 31 March 1992. (Project 767449 - New)

\$126,000.00 - National Science Foundation, Washington, D.C., Nuclear Physics at Low and Intermediate Energies, Including the Hadron Charge Exchange and Radiative Capture Programs, Department of Physics (E. R. Sugarbaker), 1 December 1989 through 30 November 1990. (Project 766752 - Continuation)

\$124,809.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Dietary Fat: Physiological Function, Department of Physiological Chemistry (H. W. Sprecher), 1 May 1989 through 30 April 1990. (Project 764415 - Continuation)

\$120,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Validation of a Stochastic Model for Optimizing Greenhouse Pest Management, Department of Entomology and Department of Entomology - OARDC (D. J. Horn) and Department of Statistics (R. Bartoszynski and D. K. Pearl), 1 July 1989 through 30 June 1991. (Project 767498 - New)

\$120,000.00 - Department of Energy, Argonne, Illinois, The Hydrogen Induced Stress Corrosion Cracking of Nickel Base Alloys in High Temperature Water, Department of Materials Science and Engineering (P. G. Shewmon and S. S. Smialowska), 1 June 1989 through 31 May 1990. (Project 766068 - Continuation)

\$108,000.00 - National Science Foundation, Washington, D.C., The Chemistry and Electrochemistry of Hot Corrosion of Metals, Department of Materials Science and Engineering (R. A. Rapp), 1 August 1989 through 31 July 1990. (Project 766299 - Continuation)

\$106,300.00 - National Science Foundation, Washington, D.C., Basic Mechanisms of Sliding Friction and Wear, Department of Materials Science and Engineering (D. A. Rigney), 15 March 1988 through 28 February 1990. (Project 766644 - Continuation)

\$101,849.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Biochemical Probes of the Active Site of Aromatase, College of Pharmacy (R. W. Brueggemeier and S. Black), 1 May 1989 through 30 April 1990. (Project 766718 - Continuation)

\$100,000.00 - National Science Foundation, Washington, D.C., Targeting of Nodulins and Biogenesis of the Endosymbiotic Compartment, Biotechnology Program (D. P. S. Verma), 1 June 1989 through 31 May 1990. (Project 767492 - New)

\$95,706.10 - Department of Agriculture, Science and Education, Washington, D.C., Bacterial Genes Coding for Plant Ribulose Bisphosphate Carboxylase, Department of Microbiology (F. R. Tabita), 1 April 1989 through 30 November 1989. (Project 767446 - New)

\$94,000.00 - 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.

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)

\$83,230.00 - Department of Agriculture, Science and Education, Washington, D.C., Development of Improved Yield-Loss Models for Potato Early Dying, Department of Plant Pathology - OARDC (R. C. Rowe, R. M. Riedel, and L. V. Madden), 1 June 1989 through 31 May 1991. (Project 767473 - Continuation)

\$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)

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)

\$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)

\$42,174.00 - National Science Foundation, Washington, D.C., Organized Interests Before the Senate: The Politics of Federal Judicial Nominations, Department of Political Science (G. A. Caldeira), 1 May 1989 through 30 April 1990. (Project 767471 - 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)

\$29,958.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Theory of System Reliability Demonstration, Burn-in Design, and Record Statistics, Department of Statistics (S. Blumenthal and H. N. Nagaraja), 1 July 1989 through 30 June 1990. (Project 767478 - 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)

\$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)

\$7,018.00 - 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 1988 through 30 September 1989. (Project 766472 - Continuation)

\$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 767468 - 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)

\$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)

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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, 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, Iloprost 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 Omnipaque^R 350 and Renografin^R 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)

\$66,000.00 - McGraw-Hill Clinical Research International, New York, New York, Double-Blind, Placebo-Controlled Study of Fluconazole in the Prevention of Fungal Infections in Neutro-penic Patients Undergoing Bone Marrow Transplantation, Department of Internal Medicine (B. C. Fox), 24 April 1989 through 23 April 1990. (Project 767450 - 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)

\$37,430.62 - Various Milling Companies in Ohio, Soft Wheat Milling Research and Evaluation, Department of Agronomy - OARDC (A. L. Barta), 1 June 1989 through 30 June 1990. (Project 767462 - 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)

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)

\$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)

\$14,500.00 - E. I. Du Pont de Nemours and Company, Inc., Newark, Delaware, Evaluation of Soybean F₂ Populations, Department of Agronomy - OARDC (B. A. McBlain), 1 December 1988 through 31 December 1990. (Project 767433 - New)

\$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)

Materials and Supplies - EG & G Idaho, Inc., Idaho Falls, Idaho, Reactor Fuel Assistance Program, Engineering Experiment Station (D. W. Miller), 5 April 1989 through 30 October 1993. (Project 767456 - New) (Approximate Dollar Value - \$500,000)

TOTAL - INDUSTRIAL AWARDS \$ 950,989.47

Other Non-Federal Research Contracts/Grants

\$83,153.00 - Council for Tobacco Research - U.S.A., Inc., New York, New York, Neutrophil Stimulation: Biochemical and Cell Biological Studies, Department of Anatomy (J. M. Robinson), 1 July 1989 through 30 June 1990. (Project 766941 - Continuation)

\$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)

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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)

\$14,100.00 - Arizona Conservation Projects, Inc., Tucson, Arizona, Survey of the Invertebrate Cave Fauna of Karchner Caverns, Arizona, Department of Entomology (D. E. Johnston and W. C. Welbourn), 1 May 1989 through 30 April 1990. (Project 767465 - 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 - OARDC 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)

\$8,234.00 - Washington Higher Education Coordinating Board, Olympia, Washington, Alternative Design(s) for Washington's Delivery of a Comprehensive Articulated Program of Vocational/Technical Education, Center on Education and Training for Employment (R. D. Ryan), 24 April 1989 through 10 September 1989. (Project 767455 - 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)

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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)

\$2,169.08 - Council for Tobacco Research - U.S.A., Inc., New York, New York, Neutrophil Stimulation: Biochemical and Cell Biological Studies, Department of Anatomy (J. M. Robinson), 1 July 1988 through 30 June 1989. (Project 766941 - Continuation)

\$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)

\$541.50 - Council on International Educational Exchange, New York, New York, Ministry of Education Intensive English in the U.S.A. for Japanese Teachers of English, English as a Second Language Program (R. N. Kantor), 1 April 1989 through 31 December 1989. (Project 767405 - Continuation)

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)

July 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)

\$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.

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 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.

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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.

July 7, 1989 meeting, Board of Trustees

**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.

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**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:

General Contract:	General Maintenance, Columbus, Ohio
Amount:	\$59,176.00 *
Estimate:	\$76,000.00 *
Total All Contracts:	\$59,176.00 *
Contingency Allowance:	\$ 5,919.00 (10% of construction cost)
Total Project Cost:	\$66,095.00

**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
Amount:	\$115,664.00
Estimate:	\$160,000.00
Total All Contracts:	\$115,664.00
Contingency Allowance:	\$ 11,586.00 (10% of construction cost)
Total Project Cost:	\$128,250.00

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
Amount:	\$ 987,689.00
Estimate:	\$1,142,890.00
Total All Contracts:	\$ 876,769.00
Contingency Allowance:	\$ 99,260.79 (10% of construction cost)
Total Project Cost:	\$1,230,500.00

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:

July 7, 1989 meeting, Board of Trustees

**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.

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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

July 7, 1989 meeting, Board of Trustees

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.

July 7, 1989 meeting, Board of Trustees

1989-90 BUDGET PRESENTATION (contd)

Amb. Wolf:

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. Wolf:

So, it averages \$1,900 a student?

Mr. Ihrig:

It varies because in this budget the undergraduate students would pay --

Amb. Wolf:

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.

July 7, 1989 meeting, Board of Trustees

1989-90 BUDGET PRESENTATION (contd)

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 --

July 7, 1989 meeting, Board of Trustees

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

July 7, 1989 meeting, Board of Trustees

1989-90 BUDGET PRESENTATION (contd)

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,

July 7, 1989 meeting, Board of Trustees

1989-90 BUDGET PRESENTATION (contd)

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.

July 7, 1989 meeting, Board of Trustees

1989-90 BUDGET PRESENTATION (contd)

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 --

July 7, 1989 meeting, Board of Trustees

1989-90 BUDGET PRESENTATION (contd)

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.

July 7, 1989 meeting, Board of Trustees

1989-90 BUDGET PRESENTATION (contd)

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.

July 7, 1989 meeting, Board of Trustees

1989-90 BUDGET PRESENTATION (contd)

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 rationale 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 --

July 7, 1989 meeting, Board of Trustees

1989-90 BUDGET PRESENTATION (contd)

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.

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

July 7, 1989 meeting, Board of Trustees

1989-90 BUDGET PRESENTATION (contd)

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?

Background

1989-90 CURRENT FUNDS BUDGET

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

Background (contd)

1989-90 CURRENT FUNDS BUDGET (contd)

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

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.

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?

July 7, 1989 meeting, Board of Trustees

1989-90 CURRENT FUNDS BUDGET (contd)

Upon motion of Mr. Kessler, seconded by Mr. Teafor, the Board of Trustees adopted the foregoing resolution with six affirmative votes cast by Messrs. Berry, Teafor, 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.)

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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)**



Office of the Treasurer

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**THE OHIO STATE UNIVERSITY
ENDOWMENT SUMMARY
June 16, 1989**

Endowment Composition

	<u>06-30-88</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>05-16-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
Equities:				
Chicago Corp.	\$ 38,004,379	18.55%	\$ 35,131,237 (2)	14.31%
Nicholas-Applegate	10,454,591	5.10	11,856,536	4.83
Siebel	34,428,707	16.81	32,186,414 (3)	13.11
Mutual Fund	17,462,592	8.53	13,756,362	5.61
OSU Managed	<u>33,282,386</u>	<u>16.25</u>	<u>78,209,711</u>	<u>31.86</u>
Total Equities	\$133,632,655	65.24%	\$171,140,260	69.72%
Fixed Income:				
Boatmen's Trust (1)	\$ 21,547,467	10.52%	\$ 23,192,412	9.45%
Cambridge	921,925	0.45	940,949	0.38
Duff & Phelps	9,983,561	4.87	10,108,910	4.12
STW Fixed Income	22,300,069	10.89	23,588,799	9.61
OSU - GNMA	9,954,372	4.86	10,045,865	4.09
OSU Managed	<u>6,502,840</u>	<u>3.17</u>	<u>6,466,143</u>	<u>2.63</u>
Total Fixed Income	\$ 71,210,234	34.76%	\$ 74,343,078	30.28%
Total Equities & Fixed Income	\$204,842,889	<u>100.00%</u>	\$245,483,338	<u>100.00%</u>
Real Estate	\$ 43,089,186		\$ 36,466,844 (4)	
Total Portfolio	<u>\$247,932,075</u>		<u>\$281,950,182</u>	

(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.

Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value June '88 to June '89</u>	<u>Total Estimated Return</u>
Equity:			
Common Stock (Chicago Corp.)	3.58% (1)	14.32%	17.90%
Common Stock (Nicholas-Applegate)	1.69 (2)	15.95	17.64
Common Stock (Siebel)	4.58 (3)	17.74	22.32
Mutual Fund	2.94	17.81	20.75
Common Stock (OSU Managed)	5.32 (4)	10.26	15.58
Standard & Poor's Index	3.78	18.72	22.50
Real Estate:	4.37%	-0- (11)	4.37%
Fixed Income:			
Bonds (Boatmen's Trust, formerly Centerre Trust)	8.40% (5)	5.15%	13.55%
Bonds (Cambridge)	8.73 (6)	1.54	10.27
Bonds (Duff & Phelps)	8.85 (7)	2.24	11.09
Bonds (SIW Fixed Income)	9.22 (8)	8.06	17.28
Bonds (OSU - GNMA)	9.94 (9)	2.00	11.94
Bonds (OSU Managed)	8.55 (10)	(0.38)	8.17
Verrill Lynch Corporate/ Government Master	8.90	3.12	12.02

- (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) 0.9% 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.
- (12) Endowment Fund Income through June 30, 1989, totaled approximately \$15,527,000.
- (13) Income from University Cash Investments through June 30, 1989, totaled approximately \$14,408,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>06-16-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-88)	\$247,932,075	Equities	\$105,213,770	37.32%
Principal Additions	13,883,029	Fixed Income	66,478,444	23.58
Principal Withdrawals	(166,410)	Real Estate	36,358,000	12.89
Change in Market Value	<u>20,301,488</u>	Cash	<u>73,899,968</u>	<u>26.21</u>
Current Market Value	<u>\$281,950,182</u>	Total Portfolio	<u>\$281,950,182</u>	<u>100.00%</u>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
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No Activity

Real Estate

Sale

House and .23 acres of land at
760 Beautyview Court, Columbus.
Sales price is \$114,500.*

Total Investment

\$100,000

* Gift.

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
800	Applied Biosystems, Inc.	Nicholas- Applegate	38.1562	\$ 30,525.00	\$ 0.00
4,300	Motorola, Inc.	"	57.5387	247,674.50	2,752.00
5,600	Transco Energy Co.	"	43.6133	244,570.70	7,616.00
13,000	Lancaster Colony Corp.*	OSU	21.6250	281,125.00	8,840.00
70	Limited, Inc.*	"	31.8126	2,226.88	16.80
10,000	Fireman's Fund Corp.	Siebel	35.5000	355,600.00	4,000.00
10,000	Norton Co.	"	50.6880	507,480.00	20,000.00
3,500	United Airlines Corp.	"	119.9480	<u>420,063.00</u>	<u>0.00</u>
				<u>\$2,089,265.08</u>	<u>\$43,224.80</u>

* Gift.

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
9,500	Hechinger Co., Cl. A	Chicago	17.7500	\$ 168,625.00	\$ 14,250.00
327,326	Neuburger Berman Energy Fund	Mutual Funds	19.9400	6,526,869.13	1,255,687.01
6,400	Novell, Inc.	Nicholas-Applegate	30.7020	196,492.80	20,082.96
3,700	Reynolds Metal Co.	"	53.4360	197,484.60	26,649.12
4,700	Union Bank of San Francisco	"	26.0284	122,333.50	(4,566.50)
3,300	Warner Communications, Inc.	"	56.5962	186,563.26	68,517.76
50	Nevada Power Co.*	OSU	21.2500	1,050.46	0.46
250	Fidelity Magellan Fund*	"	51.9900	13,004.73	(32.51)
5,500	Cooper Industries, Inc.	Siebel	32.2500	176,984.08	31,108.86
2,500	Federal National Mortgage Assn.	"	85.7500	214,192.85	137,561.35
9,000	Holiday Corp.	"	49.2900	443,055.21	196,956.21
3,000	Loews Corp.	"	108.2630	324,568.17	187,179.54
9,500	Merck & Co., Inc.	"	69.1725	656,452.08	136,013.58
8,000	Morton Thiokol, Inc.	"	45.7660	365,555.79	58,894.95
35,000	Primerica Corp.	"	22.2780	777,254.00	(33,127.00)
7,000	Toys-R-Us, Inc.	"	31.0000	216,502.76	60,975.76
6,500	Union Pacific Corp.	"	73.0000	474,500.00	36,012.92
8,000	Wilmington Trust Co.	"	35.5000	<u>284,000.00</u>	<u>139,145.83</u>
				<u>\$11,345,488.42</u>	<u>\$2,331,310.30</u>

* Gift.

The Ohio State University
Bonds/Notes

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
655,932	Federal Home Loan Mortgage Series 34-H 8.000% 03/15/20	Boatmen's	11.0155	11.1650	72.6250	\$ 476,370.85
609,538	Federal National Mortgage Assn. #1989-10 9.500% 04/25/17	"	10.7912	10.8703	88.0343	536,602.19
971,248	Government National Mortgage Assn. #2024 7.879% 05/01/17	"	9.1883	9.3191	85.7500	<u>832,844.75</u>
						<u>\$1,845,817.79</u>

The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
4,000	Chevron Corp.* 7.000% 04/01/96	OSU	90.5445	<u>\$3,621.78</u>	<u>\$0.00</u>
				<u>\$3,621.78</u>	<u>\$0.00</u>

* Gift.

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

	Yield	Acquired	Unwated	Appraised Value	Date Appraised
Building and 3.295 acres at 930 Kinnear Road	10.46X	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 Kenny Road	10.47	1961	659,930	1,150,000	06/87
Building and 6.41 acres at 1960 Kenny Road	8.89	1971	1,320,493	2,300,000	06/87
Building and 6.328 acres at 1991 Kenny Road	3.18	1968	170,000	570,000	06/87
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/87
Bangor at Don Scott Field (Lease)	.00	1973	31,997 (1)	31,997	N/A
Bangor addition at Don Scott Field (Lease)	10.00	1978	76,847 (1)	76,847	N/A
94.5 acres of land on Harrisburg Pike	.00	1966	190,000	250,000	10/87
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,762,000	06/87
48.32 acres of land, 3025 West Granville Road	.00	1972	544,398	4,124,000	06/87
76.143 acres of land, 3235 West Granville Road	.40	1968	310,338	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	1966	2,078,666	2,720,000	06/87
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,020,000	06/87
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/87
Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road	.00	1966	95,000	95,000	01/86
20.988 acres of land on Shier-Riggs Road	.00	1978	241,848	950,000	05/88
17.92 acres of land on Kitzman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	<u>3,752,263</u>	<u>6,460,000</u>	02/85
			<u>\$11,339,225</u>	<u>\$19,466,841</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261
Cable: OSU TRES UD

MEMORANDUM

Subject: Proxy Solicitations
Date: June 30, 1989
From: James L. Nichols, Treasurer *James L. Nichols*
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

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APPENDIX II

**THE OHIO STATE UNIVERSITY ENDOWMENT FUND PROPERTY
June 20, 1989**

**Presented to the Investments Committee
(See page 15)**

THE OHIO STATE UNIVERSITY
 ENDOWMENT FUND PROPERTY
 AS OF JUNE 20, 1989

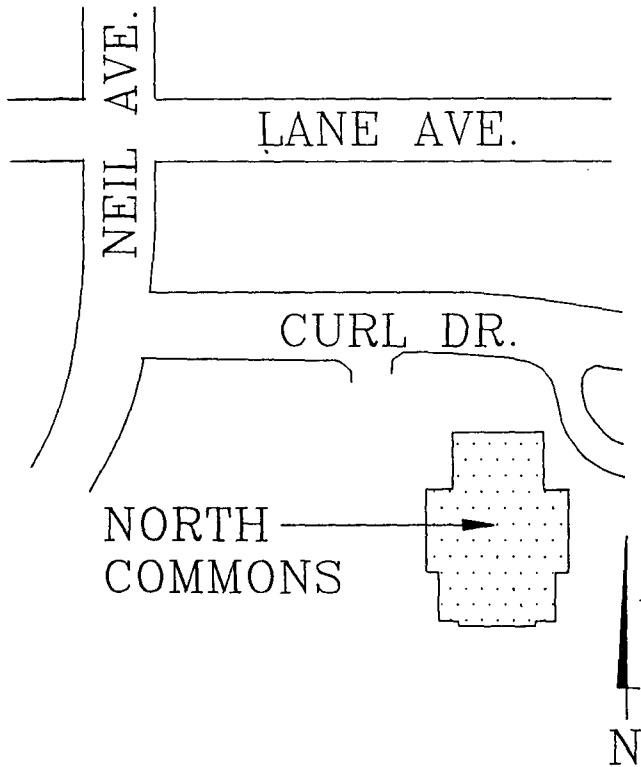
PROPERTY	YEAR ACQD	COST	YEAR APPD	APPRAISED VALUE	FY-1989 YIELD	AVG. ANNUAL APPRECIATION	TOTAL RETURN
930 KINNEAR ROAD	1962	\$435,204	1989	\$1,550,000	24.37%	4.82%	29.19%
1100 KINNEAR ROAD	1984	825,000	1989	2,650,000	12.00%	26.29%	38.29%
1900 KENNY ROAD	1961	659,930	1989	1,250,000	23.79%	2.31%	26.10%
1960 KENNY ROAD	1971	1,320,693	1989	2,500,000	19.69%	3.61%	23.30%
1991 KENNY ROAD	1968	170,000	1989	696,000	11.85%	6.94%	18.80%
DELAWARE COUNTY (WOSU)	1971	100,793	1989	641,000	3.17%	10.82%	14.00%
HARRISBURG PIKE	1986	190,000	1989	283,000	0.00%	14.20%	14.20%
2809 W. GRANVILLE ROAD	1962	160,265	1989	2,896,000	0.00%	11.32%	11.32%
3025 W. GRANVILLE ROAD	1972	544,398	1989	4,367,000	0.00%	13.03%	13.03%
3253 W. GRANVILLE ROAD	1968	310,538	1989	6,853,000	0.36%	15.87%	16.23%
3371 W. GRANVILLE ROAD	1971	265,079	1989	2,749,000	0.00%	13.88%	13.88%
3371 W. GRANVILLE ROAD	1986	2,078,666	1989	2,880,000	0.15%	11.48%	11.63%
3483 W. GRANVILLE ROAD	1965	24,000	1989	1,080,000	0.00%	17.19%	17.19%
3505 W. GRANVILLE ROAD	1968	17,114	1989	770,000	0.00%	19.87%	19.87%
1375 S. HAMILTON ROAD	1986	95,000	1986	95,000	-12.07%	0.00%	-12.07%
SHIER-RINGS ROAD	1978	241,848	1988	950,000	0.00%	14.66%	14.66%
EITERMAN ROAD	1978	25,152	1988	725,000	0.00%	39.95%	39.95%
VA CLINIC	1979	3,767,261	1985	6,460,000	0.38%	9.40%	9.78%
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)**

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

MASONRY REPAIRS - BRICKER HALL

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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>General Maint. *</u>	<u>J & P Paving</u>	<u>Olentangy Rest.</u>	<u>H. K. Phillips</u>
Base Bid	\$61,000.00	\$53,898.00	\$58,600.00	\$59,700.00	\$66,658.00
Alt. G-1 (Ext. Stone Steps)	\$15,000.00	+5,278.00	+5,200.00	+5,000.00	+2,900.00
Total General Contract	\$76,000.00	\$59,176.00	\$63,800.00	\$64,700.00	\$69,558.00
	<u>L. N. C.</u>	<u>Grunwell</u>			
Base Bid	\$81,600.00	\$45,750.00			
Alt. G-1 (Ext. Stone Steps)	\$7,140.00	+51,750.00			
Total General Contract	\$88,740.00	\$97,500.00			

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

MASONRY REPAIRS - POMERENE HALL

Tabulation of Bids

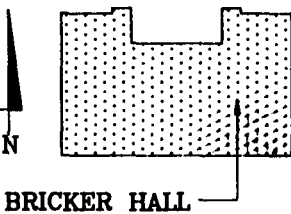
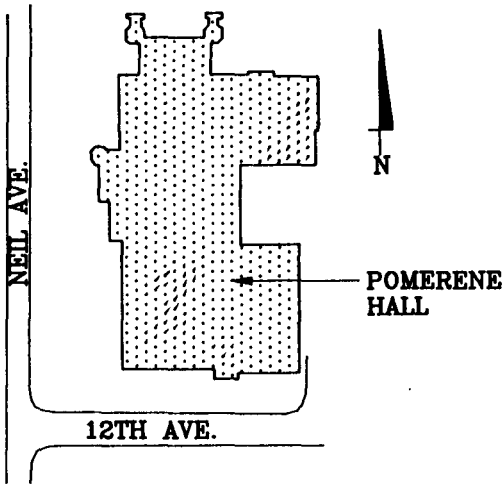
Bids received by The Ohio State University on May 16, 1987. Bids opened by Tamara Bell and tabulated by Jerry Pullins. Awards indicated with an "*".

<u>General Contract</u>	<u>Estimate</u>	<u>H. K. Phillips *</u>	<u>Grunwell</u>	<u>J & P Paving</u>	<u>Olentangy Rest.</u>
Item 1 - Pomerene Hall	\$160,000.00	\$115,664.00	\$120,000.00	\$133,000.00	\$183,900.00
Total General Contract (Includes all alternates)	\$160,000.00	\$115,664.00	\$120,000.00	\$133,000.00	\$183,900.00

L.N.C.

Item 1 - Pomerene Hall	\$208,813.00
Total General Contract (Includes all alternates)	\$208,813.00

MASONRY REPAIR BRICKER HALL POMERENE HALL



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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Functional Level. *</u>	<u>Ed Ross</u>	<u>Cody Zeigler</u>	<u>Gutknecht</u>
Base Bid - No Alternates	\$1,142,890.00	\$987,769.00	\$997,500.00	\$1,037,000.00	\$1,062,241.00
Total General Contract	\$1,142,890.00	\$987,769.00	\$997,500.00	\$1,037,000.00	\$1,062,241.00

R & J

Base Bid - No Alternates	\$1,090,000.00
Total General Contract	\$1,090,000.00

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 "*".

<u>Fire Protection Contract</u>	<u>Estimate</u>	<u>Franklin Fire *</u>	<u>Commale</u>	<u>Capital Fire</u>	<u>Culligan Fire</u>
Base Bid - No Alternates	\$182,694.00	\$135,912.00	\$157,105.00	\$179,179.00	\$197,785.00
Total Fire Protection Contract	\$182,694.00	\$135,912.00	\$157,105.00	\$179,179.00	\$197,785.00

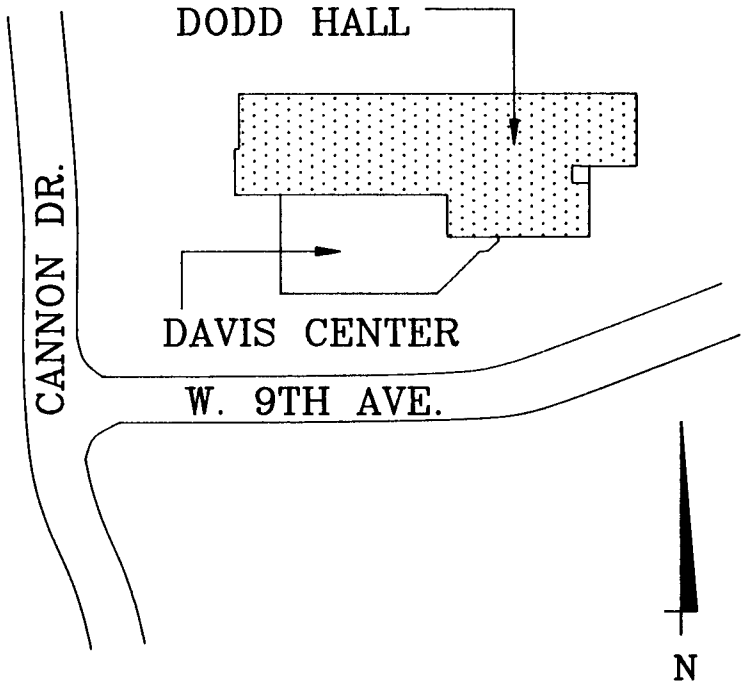
<u>Plumbing Contract</u>	<u>Estimate</u>	<u>C. W. Constr. *</u>	<u>J. A. Meyers</u>	<u>Westland Mech.</u>	<u>J. A. Croson</u>
Base Bid - No Alternates	\$149,073.00	\$109,975.00	\$117,767.67	\$124,800.00	\$130,989.00
Total Plumbing Contract	\$149,073.00	\$109,975.00	\$117,767.67	\$124,800.00	\$130,989.00

	<u>Marco</u>	<u>Radico</u>
Base Bid - No Alternates	\$137,000.00	\$162,200.00
Total Plumbing Contract	\$137,000.00	\$162,200.00

<u>HVAC Contract</u>	<u>Estimate</u>	<u>J. A. Guy *</u>	<u>Farber</u>
Base Bid - No Alternates	\$550,919.00	\$603,700.00	\$607,700.00
Total HVAC Contract	\$550,919.00	\$603,700.00	\$607,700.00

<u>Electric Contract</u>	<u>Estimate</u>	<u>Royal *</u>	<u>Buckeye</u>	<u>Goodin</u>	<u>Demos</u>
Base Bid - No Alternates	\$286,300.00	\$278,600.00	\$284,300.00	\$295,558.00	\$299,300.00
Total Electric Contract	\$286,300.00	\$278,600.00	\$284,300.00	\$295,558.00	\$299,300.00

DODD HALL HVAC SYSTEM MODIFICATIONS AND INTERFACE



OFFICE OF BUSINESS AND ADMINISTRATION
JULY 7, 1989

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APPENDIX V

1989-90 CURRENT FUNDS BUDGET

**Adopted by the Board of Trustees July 7, 1989
(See page 104)**

THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET

Budgeted Resources
(In Millions of Dollars)

	1988-89 Budget June 3, 1988	1988-89 Revised Estimate	1989-90 Proposed Budget
Central Campus			
State Appropriations	\$284.72	\$283.58	\$304.64
Student Fees	144.55	145.55	158.69
Other Resources			
Federal Grants and Contracts	94.03	96.17	102.88
Ohio Grants and Contracts	12.05	14.06	15.53
Local Grants and Contracts	12.44	12.56	13.84
Private Gifts and Grants	51.00	53.73	61.86
Endowment Income	9.10	9.10	10.35
Department and University Services	27.43	27.43	28.77
Auxiliary Sales & Charges	82.09	81.35	86.25
Hospital Sales & Services	201.35	201.93	222.45
Other Sources	17.05	17.40	13.54
Total Other Resources	\$506.54	\$513.73	\$555.47
Total Central Campus	\$935.81	\$942.86	\$1,018.80
Regional Campuses			
State Appropriations	12.18	11.93	13.30
Student Fees	8.82	9.16	9.77
Other Resources	3.24	3.49	4.58
Total Regional Campuses	\$24.24	\$24.58	\$27.65
OARDC			
State Appropriations	19.54	19.54	21.70
Federal	6.65	6.65	7.60
All Other	3.92	3.92	4.54
Total OARDC	\$30.11	\$30.11	\$33.84
Total University			
State Appropriations	316.44	315.05	339.64
Student Fees	153.37	154.71	168.46
Other Resources	520.35	527.79	572.19
Total University	\$990.16	\$997.55	\$1,080.29

THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET

Budgeted Uses
(In Millions of Dollars)

	1988-89 Budget June 3, 1988	1988-89 Revised Estimate	1989-90 Proposed Budget
Central Campus			
Educational & General	\$630.71	\$636.57	\$689.15
Auxiliary Enterprises			
Residence & Dining Halls	36.42	37.45	38.65
Intercollegiate Athletics	20.70	20.70	21.93
Other Auxiliaries	31.02	30.84	32.02
Total Auxiliaries	\$88.14	\$88.99	\$92.60
University Hospitals	216.96	217.29	236.94
Total Central Campus	\$935.81	\$942.85	\$1,018.69
Regional Campuses			
Agricultural Technical Institute	5.83	6.16	6.57
Lima Campus	5.03	5.03	5.49
Mansfield Campus	4.53	4.48	4.94
Marion Campus	3.88	4.05	4.74
Newark Campus	4.66	4.54	5.68
Total Regional Campuses	\$23.92	\$24.25	\$27.42
OARDC	30.11	30.11	33.84
Total Uses	\$989.84	\$997.21	\$1,079.95

THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Undergraduate Colleges						
Agriculture						
Allied Medical Prof.						
Architecture						
The Arts						
Biological Sciences						
Business						
Continuing Education						
Dental Hygiene						
Education						
Engineering	0	49	9	58	57	115
Health, Phys. Educ., & Rec.	1	98	18	116	114	230
Home Economics	2	123	27	150	227	377
Humanities	3	147	36	183	341	524
Journalism	4	196	47	243	454	697
Mathematics & Physical Sci.	5	245	59	304	568	872
Music	6	294	71	365	682	1,047
Natural Resources	7	343	83	426	795	1,221
Nursing	8	392	95	487	909	1,396
Pharmacy	9	441	107	548	1,022	1,570
Social & Behavioral Sciences	10	490	118	608	1,136	1,744
Social Work	11	539	130	669	1,249	1,918
University College	12+	588	142	730	1,363	2,093
Graduate School						
	0	55	9	64	79	143
	1	110	18	128	157	285
	2	177	28	205	313	518
	3	265	43	308	470	778
	4	353	57	410	626	1,036
	5	442	71	513	783	1,296
	6	530	85	615	939	1,554
	7	618	99	717	1,096	1,813
	8	706	114	820	1,252	2,072
	9	795	128	923	1,409	2,332
	10+	883	142	1,025	1,565	2,590

THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Graduate Professional						
Law	0	98	14	112	156	268
(Fees Per Semester)	1	195	27	222	312	534
	2	313	43	356	500	856
	3	469	64	533	749	1,282
	4	625	85	710	999	1,709
	5	782	107	889	1,249	2,138
	6	938	128	1,066	1,499	2,565
	7	1,094	149	1,243	1,749	2,992
	8	1,250	170	1,420	1,998	3,418
	9	1,407	192	1,599	2,248	3,847
	10+	1,563	213	1,776	2,498	4,274
Pharmacy, Doctor of	0	65	9	74	104	178
(Fees Per Quarter)	1	130	18	148	208	356
	2	208	28	236	333	569
	3	313	43	356	500	856
	4	417	57	474	666	1,140
	5	521	71	592	833	1,425
	6	625	85	710	999	1,709
	7	729	99	828	1,166	1,994
	8	834	114	948	1,332	2,280
	9	938	128	1,066	1,499	2,565
	10+	1,042	142	1,184	1,665	2,849

THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Graduate Professional						
Medicine	0	116	9	125	225	350
(Fees Per Quarter)	1	231	18	249	450	699
	2	370	28	398	720	1,118
	3	555	43	598	1,080	1,678
	4	740	57	797	1,440	2,237
	5	925	71	996	1,801	2,797
	6	1,110	85	1,195	2,161	3,356
	7	1,295	99	1,394	2,521	3,915
	8	1,480	114	1,594	2,881	4,475
	9	1,665	128	1,793	3,241	5,034
	10+	1,850	142	1,992	3,601	5,593
Dentistry	0	93	9	102	201	303
Optometry	1	186	18	204	402	606
Veterinary Medicine	2	298	28	326	643	969
(Fees Per Quarter)	3	447	43	490	965	1,455
	4	596	57	653	1,286	1,939
	5	746	71	817	1,608	2,425
	6	895	85	980	1,930	2,910
	7	1,044	99	1,143	2,251	3,394
	8	1,193	114	1,307	2,573	3,880
	9	1,342	128	1,470	2,894	4,364
	10+	1,491	142	1,633	3,216	4,849

THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Regional Campuses						
Undergraduate	0	49	7	56	57	113
	1	98	14	112	114	226
	2	123	22	145	227	372
	3	147	29	176	341	517
	4	196	38	234	454	688
	5	245	48	293	568	861
	6	294	57	351	682	1,033
	7	343	67	410	795	1,205
	8	392	76	468	909	1,377
	9	441	86	527	1,022	1,549
	10	490	95	585	1,136	1,721
	11	539	105	644	1,249	1,893
	12+	588	114	702	1,363	2,065
Graduate	0	55	7	62	79	141
	1	110	14	124	157	281
	2	177	23	200	313	513
	3	265	34	299	470	769
	4	353	46	399	626	1,025
	5	442	57	499	783	1,282
	6	530	68	598	939	1,537
	7	618	80	698	1,096	1,794
	8	706	91	797	1,252	2,049
	9	795	103	898	1,409	2,307
	10+	883	114	997	1,565	2,562

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.

AUTHORIZATIONS (contd)

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.

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THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FIFTY-THIRD MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, August 23, 1989

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.

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Minutes of the last meeting were approved.

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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.

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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.

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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.

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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.)

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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.

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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.

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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

August 23, 1989 meeting, Board of Trustees

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.

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**CHANGE "THE NEWTON D. BAKER - BAKER & HOSTETLER PROFESSORSHIP
IN LAW" TO "THE NEWTON D. BAKER - BAKER & HOSTETLER CHAIR IN LAW"**

Resolution No. 90-21

Synopsis: The Academic Affairs Committee recommended changing "The Newton D. Baker - Baker & Hostetler Professorship in Law" to "The Newton D. Baker - Baker & Hostetler Chair in Law."

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

August 23, 1989 meeting, Board of Trustees

**CHANGE "THE NEWTON D. BAKER - BAKER & HOSTETLER PROFESSORSHIP
IN LAW" TO "THE NEWTON D. BAKER - BAKER & HOSTETLER CHAIR IN LAW (contd)**

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.

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PERSONNEL ACTIONS

Resolution No. 90-22

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 Stoney 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.

August 23, 1989 meeting, Board of Trustees

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.

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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.

August 23, 1989 meeting, Board of Trustees

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.

August 23, 1989 meeting, Board of Trustees

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 1988 when she retired with the title of Assistant Professor Emeritus. 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

August 23, 1989 meeting, Board of Trustees

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.

August 23, 1989 meeting, Board of Trustees

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.

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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.

August 23, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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 here. 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. He is the chair of our Assembly for this upcoming year, his name is Mike Arnott. He is back there, will you please stand, Mike. He has been working very hard this year 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?

August 23, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Straub:

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.

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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.)

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August 23, 1989 meeting, Board of Trustees

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.

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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

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	157	\$9,304,065.94
Engineering Experiment Station	55	\$ 455,289.00
Total	212	\$9,759,354.94

The Ohio State University Development Fund

Establishment of Named Funds

Ohio Eminent Scholar in High-Temperature Structural Materials (Provide salary and program support for an outstanding scholar-leader in high-temperature structural materials)	\$ 500,000.00 (Designated by General Assembly of Ohio) \$ 500,000.00 (University Funds)
Ohio Eminent Scholar in Macromolecular Structure Determination (Provide salary and program support for an outstanding scholar-leader in macromolecular structure determination)	\$ 500,000.00 (Designated by General Assembly of Ohio) \$ 500,000.00 (University Funds)

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) \$ 500,000.00 (University Funds)
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

August 23, 1989 meeting, Board of Trustees

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

SUMMARY FOR JULY 1989

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	143	\$13,444,058.27
Engineering Experiment Station	35	\$ 82,500.00
Total	178	\$13,526,558.27

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 & Hostetler 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

\$280,450.00 - Department of Education, Office of Elementary and Secondary Education, Washington, D.C., Training and Demonstration Grants to Institutions of Higher Education, Department of Educational Theory and Practice (J. J. Quaranta), 1 October 1989 through 30 September 1991. (Project 767590 - New)

\$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)

\$197,850.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Title III -- Development and Improvement of Academic Programs, Agricultural Technical Institute - Administrative Support (D. D. Garrison and L. J. Clevenger), 1 October 1989 through 30 September 1990. (Project 766437 - 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)

\$112,000.00 - 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 767593 - Continuation)

\$110,358.00 - Department of Health and Human Services, National Institute of Environmental Health Science, 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)

\$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 766766 - 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)

\$99,261.00 - National Science Foundation, Washington, D.C., Ice Sheet Dynamics in Central Greenland, Byrd Polar Research Center (J. Bolzan), 15 April 1989 through 31 March 1990. (Project 767423 - 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)

\$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 767591 - New)

\$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 766389 - Continuation)

\$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)

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)

\$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)

\$66,498.00 - National Science Foundation, Washington, D.C., Distributions of Input-Output Coefficient and Probabilistic Input-Output Models, Department of Geography (R. W. Jackson), 1 July 1989 through 30 June 1990. (Project 767525 - New)

\$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)

\$60,000.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Reading Recovery Project 1987-1991, Department of Educational Theory and Practice (C. A. Lyons, G. S. Pinnell, and D. Deford), 1 October 1989 through 30 September 1990. (Project 766402 - Continuation)

\$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)

\$54,968.00 - Department of Energy, Argonne, Illinois, Investigations of Ultrasonic Surface Wave Interaction with Porous Saturated Rocks, Department of Welding Engineering (L. Adler), 1 July 1989 through 30 June 1990. (Project 766168 - Continuation)

\$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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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. Loeb), 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)

\$41,000.00 - Department of the Interior, Fish and Wildlife Service, Anchorage, Alaska, Remote Sensing Techniques for Counting Brant in Nesting and Staging Areas, Center for Mapping (J. D. Bossler and W. H. Anderson), 15 May 1989 through 1 February 1990. (Project 767595 - New)

\$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)

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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)

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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)

\$9,950.00 - Department of Labor, Employment and Training Administration, Washington, D.C., Accreditation Process for Apprenticeships, Center on Education and Training for Employment (R. D. Ryan), 1 May 1989 through 31 July 1989. (Project 767497 - New)

\$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. Loeb), 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

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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)

\$19,999.00 - State of Ohio, Department of Education, Columbus, Ohio, Effects of Ohio Investments in Career Guidance Program FY 1988-89 -- Carl D. Perkins Grant to Vocational Districts, Center on Education and Training for Employment (R. D. Ryan), 1 June 1989 through 30 September 1989. (Project 767560 - New)

\$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 767526 - 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

\$208,734.60 - Organon, Inc., West Orange, New Jersey, An Ultra-sound Study of Ovarian Cyst Activity Comparing CTR-03 and CTR-05 Versus a Concurrent Untreated Control, Department of Pharmacology (N. Gerber and G. Apseloff), 22 May 1989 through 21 May 1990. (Project 767548 - New)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

\$76,310.00 - G. H. Besselaar Associates, Princeton, New Jersey, A Double-Blind, Placebo-Controlled, Parallel, Multicenter Study to Assess the Effects of Digoxin Withdrawal on Exercise Tolerance and Other Measures of Clinical Efficacy in Patients, Department of Internal Medicine (R. J. Cody), 1 June 1989 through 28 February 1991. (Project 767535 - 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)

\$60,000.00 - Janssen Research Foundation, Inc., Piscataway, New Jersey, Flunarizine in the Treatment of Partial Seizures - An Open Label Extension Study, Department of Neurology (M. E. Drake, Jr.), 1 June 1989 through 31 May 1991. (Project 767503 - 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)

\$35,700.00 - 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 - New)

\$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)

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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, Toleration, 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$5,659.00 - GAC International, Central Islip, New York, Evaluation of New Orthodontic Bracket Base, Orthodontics (Z. Davidovitch), 17 April 1989 through 17 October 1989. (Project 767520 - New)

\$3,960.00 - E. I. Du Pont de Nemours and Company, Inc., Newark, Delaware, Evaluation of Soybean F₂ Populations, Department of Agronomy - OARDC (B. A. McBlain), 1 December 1988 through 31 December 1990. (Project 767433 - Continuation)

\$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 Toremfene 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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. Dilsaver 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)

\$27,500.00 - Eleven Members of the National Entrepreneurship Education Consortium, National Entrepreneurship Education Consortium, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766880 - 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-Mcccp 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Effects of Angioplastic (PTCA) on Regional Diastolic Function in Limited Coronary Artery Disease, Department of Internal Medicine (D. B. Van Fossen), 1 July 1989 through 30 June 1990. (Project 767552 - New)

\$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Z-line Structural Dynamics as a Function of Physiological State, Department of Veterinary Anatomy and Cellular Biology (M. Yamaguchi), 1 July 1989 through 30 June 1990. (Project 767567 - New)

\$19,996.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Pathogenesis of Non-Pulmonary Organ Failure in Adult Respiratory Distress Syndrome (ARDS), Department of Internal Medicine (P. M. Dorinsky), 1 July 1989 through 30 June 1990. (Project 767551 - New)

\$19,996.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, 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), 1 July 1989 through 30 June 1990. (Project 767573 - New)

\$19,980.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Cellular Dynamics of Failure-Prone Cardiomyocytes, Department of Physiology (B. T. Stokes), 1 July 1989 through 30 June 1990. (Project 767558 - New)

\$19,944.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Autonomic Control of the Contractile and Endocrine Function of the Heart, Department of Internal Medicine (R. J. Cody and G. J. Haas), 1 July 1989 through 30 June 1990. (Project 767569 - New)

\$19,747.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Roles of Hypertension and Arrhythmia in a Rat Heart Failure Model, Department of Veterinary Physiology and Pharmacology (R. L. Hamlin), 1 July 1989 through 30 June 1990. (Project 767575 - New)

\$18,000.00 - Ten 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 1988 through 30 June 1989. (Project 766839 - Continuation)

\$16,874.00 - Battelle Memorial Institute, Columbus, Ohio, Parainfluenza Pneumonia and Vaccination, Department of Veterinary Pathobiology (G. S. Krakowka), 1 June 1989 through 30 September 1989. (Project 767574 - New)

\$15,000.00 - Arthritis Foundation - Central Ohio Chapter, Columbus, Ohio, Immunoregulation and Autoimmunity, Department of Internal Medicine (R. L. Whisler), 1 April 1989 through 31 March 1990. (Project 760620 - Continuation)

\$10,614.00 - Hong Kong Government, Hong Kong, Study Tour for the Vocational Training Council -- Hong Kong, Center on Education and Training for Employment (R. D. Ryan), 1 May 1989 through 31 July 1989. (Project 767527 - 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)

\$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)

\$5,021.00 - 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)

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)

\$1,000.00 - Detroit Edison Company, Newport, Michigan, 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)

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)

TOTAL - OTHER NON-FEDERAL AWARDS **\$1,513,906.00**

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

\$78,485.00 from The Ohio Coal Development Office, Columbus, Ohio, for "Agglomeration Column Flotation for Cleaning and Desulfurization of Ohio Coal Fines," under the direction of the department of Materials Science and Engineering for the period May 1, 1989 through August 1, 1990. (529810)

\$40,000.00 from the Edison Program, Columbus, Ohio, and Arcair, Columbus, Ohio, for "Development of Underwater Shielded Metal-Arc Welding Electrode," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (312511)

\$2,500.00 from The Ohio Department of Development, Columbus, Ohio, for "UNESCO Conference," under the direction of the College Office, for the period May 1, 1989 through July 31, 1989. (529813)

TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT **\$120,985.00**

Industrial and Other Sponsored Research and Development

\$74,414.00 from B. F. Goodrich, Troy, Ohio, for "Convection Heat Transfer Study," under the direction of the Department of Mechanical Engineering for the period May 10, 1989 through June 30, 1990. (529811)

\$50,130.00 from Teledyne Monarch Rubber Company, Hartville, Ohio, for "Computer Modeling of Hydromounts," under the direction of the Department of Mechanical Engineering for the period July 1, 1989 through June 30, 1990. (529809)

\$41,524.00 from Teledyne Monarch Rubber Company, Hartville, Ohio, for "Design of Adaptive Hydromounts," under the direction of the Department of Mechanical Engineering for the period July 1, 1989 through June 30, 1990. (529808)

\$39,979.00 from The American Foundrymen's Society, Inc., DesPlaines, Illinois, for "Influence of Sand Surface Chemistry on Bonding," under the direction of the Department of Materials Science and Engineering for the period May 1, 1989 through May 1, 1990. (529806)

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

August 23, 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)

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.

August 23, 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)

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.

August 23, 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)

**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.

August 23, 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 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.

August 23, 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)

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.

August 23, 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 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. 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

\$979,559.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Regional Resource Center, Education Administration (T. M. Stephens), 1 June 1989 through 31 May 1990. (Project 766183 - Continuation)

\$370,738.00 - 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), 1 July 1989 through 30 June 1990. (Project 767581 - New)

\$259,192.00 - 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), 1 July 1989 through 30 June 1990. (Project 764493 - Continuation)

\$183,849.00 - 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), 1 July 1989 through 30 June 1990. (Project 767528 - New)

\$157,557.00 - 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), 1 June 1989 through 31 May 1990. (Project 766139 - Continuation)

\$151,885.00 - 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), 1 August 1989 through 31 July 1990. (Project 763483 - Continuation)

\$150,603.00 - 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 (J. M. Chiu), 1 July 1989 through 30 June 1990. (Project 766083 - Continuation)

\$150,000.00 - National Science Foundation, Washington, D.C., Neuronal Proteins in Synapse Development, Department of Anatomy (R. W. Burry), 15 July 1989 through 30 June 1991. (Project 767644 - New)

\$140,000.00 - National Science Foundation, Washington, D.C., Liquid and Solid Helium at Very Low Temperatures, Department of Physics (D. O. Edwards), 15 July 1989 through 30 June 1990. (Project 767398 - New)

\$138,869.00 - 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), 1 July 1989 through 30 June 1990. (Project 766971 - 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)

\$138,000.00 - Department of the Interior, Bureau of Mines, Washington, D.C., Mining and Mineral Resources Research Institute -- Annual Allotment, Department of Materials Science and Engineering (G. R. St. Pierre), 1 June 1989 through 31 May 1990. (Project 767611 - Continuation)

\$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. Wewers), 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 Conrallymphokine, 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

\$68,500.00 - 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 - New)

\$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)

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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)

\$59,949.00 - National Science Foundation, Washington, D.C., Communication and Synchronization in Parallel Computation, Department of Computer and Information Science (D. Jayasimha), 1 July 1989 through 30 June 1991. (Project 767677 - 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)

\$55,302.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Stochastic Estimation of Coherent Structures and Their Dynamics in Transitional and Turbulent Layers, Department of Mechanical Engineering (Y. G. Guezennec), 15 June 1989 through 14 June 1990. (Project 767647 - New)

\$54,938.00 - National Science Foundation, Washington, D.C., Continuation of a Study of the Windfield Near Terra Nova Bay, Byrd Polar Research Center (D. H. Bromwich), 15 July 1988 through 31 December 1990. (Project 766896 - 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)

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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 767657 - 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 767689 - 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)

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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, Paleocology, 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., The Limit of High Reynolds Number for Shear Layers, Department of Mathematics (G. R. Baker and G. Majda), 15 June 1989 through 31 May 1990. (Project 767636 - 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)

\$12,000.00 - National Science Foundation, Washington, D.C., Development of a Systems Ecology Study of Low-Input Sustainable Agroecosystems, Department of Entomology - OARDC (B. R. Stinner), 1 July 1989 through 30 June 1990. (Project 767620 - New)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

Equipment - Department of Energy, Aiken, South Carolina, Energy-Related Laboratory Equipment, Engineering Experiment Station (J. W. Talnagi), 7 July 1989 through 30 September 1989. (Project 767625 - New) (Approximate Dollar Value - \$91,754)

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)

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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 September 1989 through 30 June 1990. (Project 767534 - Continuation)

\$23,324.00 - 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 - 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 767585 - 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)

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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. Oliver), 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 - Pharmakinetiks 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)

\$54,678.00 - The Procter and Gamble Company, Cincinnati, Ohio, In Vitro Studies on the Digestibility of Olestra by Rumen Organisms and Its Effect on Rumen Fermentation Processes, Department of Dairy Science - OARDC (D. L. Palmquist), 21 June 1989 through 30 November 1989. (Project 767566 - New)

\$35,000.00 - Mobil Research and Development Corporation, Paulsboro, New Jersey, In Situ Zeolite Crystallization and Spectroscopic Characterization, Department of Chemistry (P. K. Dutta), 1 June 1989 through 31 May 1990. (Project 766931 - Continuation)

\$34,686.54 - Norwich-Eaton Pharmaceuticals, Inc., Norwich, New York, A Double-Blind, Placebo-Controlled, Multicenter Trial to Determine the Effects of the Sequential Dosing of Phosphate Didronel and Calcium in Postmenopausal Osteoporotic Women, Department of Internal Medicine (R. D. Jackson and M. B. Rao), 19 January 1989 through 31 January 1990. (Project 765531 - Continuation)

\$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)

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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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

\$42,046.00 - The Juvenile Diabetes Foundation International, New York, New York, The Microvascular Choroidal Changes in Diabetes Type I and Its Repair Process Following Photo-coagulation, Department of Ophthalmology (A. J. Fryczkowski and F. H. Davidorf), 1 September 1989 through 31 August 1990. (Project 767655 - 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 766762 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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 III 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 (W. B. Davis and J. B. Fagan), 1 July 1989 through 30 June 1990. Project 767600 - 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 Paleooceanography 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)

\$9,293.00 - National Institute for Dispute Resolution, Washington, D.C., The Development of an Artificial Intelligence Model of Mediation of Conflict, Business Administration (R. J. Lewicki), Mershon Center for Education (T. W. Milburn), and Department of Computer and Information Science (J. R. Josephson), 15 June 1989 through 30 September 1990. (Project 767609 - 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)

\$4,500.00 - Bedding Plant Foundation, Inc., Lansing, Michigan, Evaluation of an Air-Assisted Electrostatic Sprayer, Using Biorational and Conventional Insecticides, to Control Major Insect and Mite Pests of Greenhouse Ornamental Plants, Department of Entomology - OARDC (R. K. Lindquist), 1 July 1989 through 30 June 1990. (Project 767659 - 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 31 March 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

August 23, 1989 meeting, Board of Trustees

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 from various industry for Affiliate 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.

August 23, 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 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.

August 23, 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 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.

August 23, 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 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.

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August 23, 1989 meeting, Board of Trustees

**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

August 23, 1989 meeting, Board of Trustees

**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.

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**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: Clagget 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:

General Contract:	B. S. Contractors, Inc. , Columbus, Ohio
Amount:	\$308,130.00 *
Estimate:	\$367,494.00 *
Plumbing Contract:	Stevens Painton Corp. , Hilliard, Ohio
Amount:	\$166,550.00 *
Estimate:	\$185,720.00 *
HVAC Contract:	Farber Corporation, Columbus, Ohio
Amount:	\$185,200.00 * +
Estimate:	\$166,390.00 *
Electric Contract:	Buckeye Electric Co., Dayton, Ohio
Amount:	\$128,309.00 *
Estimate:	\$153,205.00 *
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.

August 23, 1989 meeting, Board of Trustees

**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.

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**Ratification of Request For Construction Bids and
Acceptance of the Report of Award of Constracts 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

August 23, 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)**

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
Amount:	\$216,000.00*
Estimate:	\$350,000.00*
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**

Resolution No. 90-28

COLLEGE ROAD STORM SEWER EXTENSION

Synopsis: The Fiscal Affairs Committee recommended ratification of the request for construction bids and acceptance of the report of award of contracts for the College Road Storm Sewer Extension project.

WHEREAS recent heavy rains created serious storm water runoff and flooding in the College Road area of the central campus; and

WHEREAS the 1986 City of Columbus master sewer separation plan included storm and sanitary sewer separation work in this area to prevent recurrence of such flooding; and

August 23, 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)**

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.

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**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.)

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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.

August 23, 1989 meeting, Board of Trustees

BEECHWOLD MEDICAL CENTER, COLUMBUS, OHIO (contd)

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.

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EXPRESSION OF APPRECIATION

Resolution No. 90-31

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. Teafor, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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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)



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261

**THE OHIO STATE UNIVERSITY
ENDOWMENT SUMMARY
July 21, 1989**

Endowment Composition

	<u>06-30-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>07-21-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
Equities:				
Chicago Corp.	\$ 34,629,320	13.98%	\$ 36,539,399	14.45%
Nicholas-Applegate	11,475,663	4.63	12,586,575	4.98
Siebel	32,173,227	12.98	33,111,826	13.10
Mutual Fund	13,552,018	5.47	14,106,335	5.58
OSU Managed	<u>80,168,113</u>	<u>32.35</u>	<u>76,814,379</u>	<u>30.39</u>
Total Equities	\$171,998,341	69.41%	\$173,158,514	68.50%
Fixed Income:				
Boatmen's Trust	\$ 23,841,580	9.62%	\$ 23,707,578	9.38%
Cambridge	951,048	0.38	945,535	0.37
Duff & Phelps	10,243,208	4.13	10,299,005	4.08
STW Fixed Income	24,150,270	9.75	24,013,830	9.50
OSU - GNMA	10,144,887	4.10	10,186,984	4.03
OSU Managed	<u>6,465,211</u>	<u>2.61</u>	<u>10,464,467</u>	<u>4.14</u>
Total Fixed Income	\$ 75,796,204	30.59%	\$ 79,617,399	31.50%
Total Equities & Fixed Income	\$247,794,545	<u>100.00%</u>	\$252,775,913	<u>100.00%</u>
Real Estate	\$ 39,503,844		\$ 39,502,368	
Total Portfolio	<u>\$287,298,389</u>		<u>\$292,278,281</u>	

Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value July '88 to July '89</u>	<u>Total Estimated Return</u>
Equity:			
Common Stock (Chicago Corp.)	3.56% (1)	17.35%	20.91%
Common Stock (Nicholas-Applegate)	1.64 (2)	21.77	23.41
Common Stock (Siebel)	4.79 (3)	18.97	23.76
Mutual Fund	2.92	19.75	22.67
Common Stock (OSU Managed)	5.53 (4)	12.43	17.96
Standard & Poor's Index	3.65	23.47	27.12
Real Estate:	4.37%	-0- (11)	4.37%
Fixed Income:			
Bonds (Boatmen's Trust)	8.34% (5)	11.26%	19.60%
Bonds (Cambridge)	8.21 (6)	4.03	12.24
Bonds (Duff & Phelps)	8.15 (7)	4.23	12.38
Bonds (STW Fixed Income)	9.16 (8)	10.45	19.61
Bonds (OSU - GNMA)	9.89 (9)	3.05	12.94
Bonds (OSU Managed)	8.73 (10)	(1.80)	6.93
Merrill Lynch Corporate/ Government Master	8.75	5.36	14.11

- (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.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>07-21-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-89)	\$287,298,389	Equities	\$111,494,308	38.15%
Principal Additions	17,350	Fixed Income	65,688,789	22.47
Principal Withdrawals	(25,000)	Real Estate	39,395,000	13.48
Change in Market Value	<u>4,987,542</u>	Cash	<u>75,700,184</u>	<u>25.90</u>
Current Market Value	<u>\$292,278,281</u>	Total Portfolio	<u>\$292,278,281</u>	<u>100.00%</u>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
No Activity			

Real Estate

<u>Sale</u>	<u>Total Investment</u>
No Activity	

**The Ohio State University
Common & Preferred Stock**

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
6,000	Schulman (A), Inc.	Chicago	28.7500	\$ 172,500.00	\$ 2,880.00
6,900	Banc One Corp.	Nicholas- Applegate	35.9232	248,283.90	7,176.00
6,800	Kemper Corp.	"	39.3050	267,682.00	5,712.00
10,000	Liz Claiborne, Inc.	"	24.2107	242,107.50	1,700.00
1,800	Transco Energy Co.	"	48.0601	86,616.20	2,448.00
100	Motorola, Inc.*	OSU	55.6250	5,562.50	64.00
72,400	Beverly Enterprises, Inc.	Siebel	8.3355	<u>607,832.60</u>	<u>0.00</u>
				<u>\$1,630,584.70</u>	<u>\$19,980.00</u>

* Gift.

**The Ohio State University
Common & Preferred Stock**

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
2,400	New England Business Service, Inc.	Chicago	20.0000	\$ 48,000.00	\$ (2,400.00)
6,500	Applied Biosystems, Inc.	Nicholas-Applegate	31.9250	207,512.50	(27,908.50)
13,600	Computer Associates International, Inc.	"	17.6663	239,438.13	38,206.33
2,100	MCI Communications Corp.	"	38.6250	81,112.50	49,913.84
3,300	Merck & Co., Inc.	"	67.0679	221,118.61	5,968.51
3,000	Tandem Computers, Inc.	"	18.0500	53,968.19	(4,848.03)
87	Allied Signal, Inc.*	OSU	35.8750	3,092.31	9.25
765	Evergreen Total Return Fund*	"	18.8800	14,441.29	968.46
48	Insured MST Municipal Bond Sec. Trust Fund*	"	569.5800	27,339.84	1,684.03
1,198	Ohio Banc Corp.*	"	42.2500	50,615.50	6,888.50
5,277	Standard Products Co.*	"	29.1250	153,437.50	74.69
100	Union Pacific Corp.*	"	72.7500	7,239.75	1,110.55
3,500	United Airlines Corp.	Siebel	146.3300	<u>511,892.92</u>	<u>91,829.92</u>
				<u>\$1,619,209.04</u>	<u>\$161,497.55</u>

* Gift.

The Ohio State University
Bonds/Notes

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
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No Activity

The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
840,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	108.7187	\$913,237.50	\$5,250.00
				<u>\$913,237.50</u>	<u>\$5,250.00</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

	Yield	Acquired	Invested	Appraised Value	Date Appraised
Building and 3.295 acres at 930 Kinnear Road	10.46X	1962	\$ 435,204	\$ 1,400,000	06/89
Building and 3.56 acres at 1100 Kinnear Road	12.00	1984	825,000	1,900,000	06/89
Building and 2.633 acres at 1900 Kenny Road	10.47	1961	659,930	1,150,000	06/89
Building and 6.41 acres at 1960 Kenny Road	8.89	1971	1,320,693	2,300,000	06/89
Building and 6.328 acres at 1991 Kenny Road	3.18	1968	170,000	570,000	06/89
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/89
Hangar at Don Scott Field (Loan)	.00	1973	31,333 (1)	31,333	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	76,035 (1)	76,035	N/A
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	250,000	06/89
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,762,000	06/89
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,124,000	06/89
76.143 acres of land, 3253 West Granville Road	.40	1968	310,538	6,472,000	06/89
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,596,000	06/89
32 acres of land, 3371 West Granville Road	.00	1986	2,078,666	2,720,000	06/89
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,020,000	06/89
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/89
Undivided one-half interest in building and .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 Eiterman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,338,309</u>	<u>\$39,502,368</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B
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Columbus, OH 43201-1002
Phone 614-292-6261

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

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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)

STATUS OF CHAIR FUNDS
THE OHIO STATE UNIVERSITY ENDOWMENT FUND
As of June 30, 1989

<u>Date</u> <u>Established</u>	<u>Description</u>	<u>College</u>	<u>Amount</u> <u>Required</u> <u>for Full</u> <u>Funding</u>	<u>Book</u> <u>Value</u>	<u>Market</u> <u>Value</u>	<u>Holder of Chair</u>
Nov. 1, 1985	Anderson's Chair in Agricultural Marketing, Trade and Policy	Agriculture	\$ 750,000	\$ 978,969	\$1,403,181	Luther G. Tweeten
Feb. 3, 1978	Bailey Chair in Energy Conversion	Engineering	600,000	594,933	1,382,965	Robert H. Essenhigh
May 5, 1988	Cramblett Chair in Medicine	Medicine	600,000	700,000	771,400	Vacant
Dec. 15, 1976	Davis Chair in American Free Enterprise	Business	600,000	671,704	1,449,517	Donald L. Sexton
June 8, 1978	Davis Chair in Medicine	Medicine	750,000	1,047,544	1,240,549	Donald L. Fry
Sept. 13, 1963	Doan Chair of Medicine	Medicine	(1)	187,396	429,339	Earl N. Metz
Oct. 12, 1966	Fawcett Chair in Educational Administration	Education	(1)	383,238	773,021	Vacant
Mar. 3, 1978	Galbreath Chair in Real Estate	Business	600,000	1,074,587	2,431,765	Patric H. Hendershott
July 11, 1980	Haas Chair in Food Industries	Agriculture	750,000	1,258,876	1,900,357	Vacant
June 7, 1985	Ismke Chair in Cancer Research	Medicine	1,250,000	1,250,000	1,536,387	Vacant
Sept. 9, 1977	Kiplinger Chair in Floriculture	Agriculture	600,000	874,548	1,026,185	Vacant
Feb. 3, 1971	Kiplinger Chair in Public Affairs Reporting	Soc./Behav. Science	(1)	1,122,805	2,104,064	John F. Wicklein
Nov. 7, 1975	Klassen Chair of Thoracic Surgery	Medicine	600,000	582,434	1,353,341	P. David Myerowitz
Sept. 7, 1973	Kurtz Chair in Endocrinology	Medicine	600,000	193,147	370,240	Samual Cataland
Sept. 6, 1974	Kurtz Chair in Neurology	Medicine	600,000	173,157	333,045	George W. Paulson
Feb. 1, 1980	McConnell Chair in Aviation	Engineering	750,000	1,018,248	1,212,393	Vacant
May 7, 1971	Melling Chair of Obstetrics & Gynecology	Medicine	(1)	330,852	694,071	Frederick P. Zuspan
July 8, 1965	Melton Chair of Jewish History	Humanities	(1)	500,000	1,115,810	Jeremy Cohen
Sept. 3, 1982	Overstreet Chair in Cardiology	Medicine	750,000	784,939	1,394,459	Carl V. Leier
Jan. 9, 1976	Pomerene Chair in Medicine	Medicine	600,000	784,873	1,504,196	Henry G. Cramblett
Feb. 8, 1968	Reese Chair of Banking & Economics	Business	(1)	510,003	1,115,928	Edward J. Kane
Feb. 9, 1967	Riklis Chair in Business	Business	(1)	273,750	225,000	Rene M. Stultz
Dec. 9, 1982	Staub Chair for Research in Ophthalmology	Medicine	750,000	479,218	658,530	Vacant
May 7, 1971	Wing Chair of Cancer Research	Medicine	(1)	1,000,000	2,222,803	John G. Boutsellis
June 2, 1989	Wolfe Chair in Accounting	Business	1,250,000	766,249	836,867	Vacant
Jan. 12, 1962	Zollinger Chair of Surgery	Medicine	(1)	601,118	1,601,439	Olga Jonasson

Designated Chair (2)

<u>Date</u> <u>Established</u>	<u>Description</u>	<u>College</u>	<u>Required</u> <u>for Full</u> <u>Funding</u>	<u>Book</u> <u>Value</u>	<u>Market</u> <u>Value</u>	<u>Holder of Chair</u>
1974	Yassenoff Designated Chair in Philosophy and Jewish Studies	Humanities	(2)	(2)	(2)	Tamar Rudavsky

(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

<u>Date</u> <u>Established</u>	<u>Description</u>	<u>College</u>	<u>Amount</u> <u>Required</u> <u>for Full</u> <u>Funding</u>	<u>Book</u> <u>Value</u>	<u>Market</u> <u>Value</u>	<u>Holder</u>
Apr. 5, 1985	Art and Design Technology	Arts	\$1,000,000	\$1,006,658	\$1,528,351	Noel Mayo
Apr. 5, 1985	Experimental Physical Chemistry	Math/Physical Science	1,000,000	1,001,782	1,624,901	Terry A. Miller
Mar. 6, 1987	Hydrogeology	Math/Physical Science	1,250,000	1,250,000	1,366,488	Frank W. Schwartz
Mar. 6, 1987	Industrial Microbiology	Biological Science	1,250,000	1,050,000	1,159,150	Fred R. Tabita
Mar. 6, 1987	Materials Research	Math/Physical Science	1,250,000	1,250,000	1,366,488	John W. Wilkins
Mar. 6, 1987	Mechanical Systems	Engineering	1,250,000	1,000,000	1,105,521	Vacant
Apr. 5, 1985	Molecular Genetics	Biological Science	1,000,000	1,037,000	1,562,673	Alan M. Lambowitz
Apr. 5, 1985	Scientific Computation	Math/Physical Science	1,000,000	1,218,349	1,776,761	Gregory R. Baker

STATUS OF PROFESSORSHIP FUNDS
THE OHIO STATE UNIVERSITY ENDOWMENT FUND

As of June 30, 1989

<u>Date</u> <u>Established</u>	<u>Description</u>	<u>College</u>	<u>Amount</u> <u>Required</u> <u>for Full</u> <u>Funding</u>	<u>Book</u> <u>Value</u>	<u>Market</u> <u>Value</u>	<u>Holder of Professorship</u>
Feb. 1, 1974	Newton D. Baker-Baker & Hostetler Prof. in Law	Law	\$150,000	\$750,000	\$1,073,089	Albert L. Clovis
July 31, 1969	Bricker Prof. in Law	Law	(1)	367,660	753,360	Morgan E. Shipman
July 11, 1975	Critchfield Prof. in Engineering	Engineering	150,000	100,000	245,846	Mervin E. Muller
Mar. 1, 1985	Merrell Dow Prof. in Pharmaceutical Admin.	Pharmacy	250,000	350,000	478,872	Dev Pathak
May 1, 1981	Enarson Prof. in Public Policy	Business	250,000	498,415	920,541	William J. Shkurti
Feb. 3, 1978	Ernst & Whitney Prof. in Accounting	Business	150,000	431,851	684,039	Daniel L. Jensen
June 10, 1982	Fleisher Prof. in Educational Admin.	Education	250,000	295,659	507,997	Walter G. Hack
May 1, 1981	Fontana Prof. in Metallurgical Eng.	Engineering	250,000	282,394	463,806	Robert A. Rapp
Dec. 9, 1982	Gerlach Prof. in College of Bus.	Business	250,000	675,733	1,075,012	Vacant
Mar. 7, 1975	Hitchcock Prof. in Environmental Physiology	Medicine	150,000	238,337	490,251	Jack A. Boulant
Dec. 7, 1978	Kennedy Prof. in Human Nutrition	Human Ecology	250,000	251,130	587,570	Vacant
June 14, 1948	Kimberly Prof. in Chemistry	Math./Phys. Sci.	(1)	132,500	324,635	Leo A. Paquette
Nov. 19, 1982	Kimberly Prof. in Pharmacy	Pharmacy	250,000	207,500	433,525	Duane D. Miller
Oct. 14, 1965	Lazarus Prof. in Population Studies	Soc./Behav. Sci.	(1)	158,785	325,568	Krishnan Namboodiri
Feb. 4, 1977	Levy Prof. for Cancer	Medicine	150,000	233,529	495,179	Joseph R. Drago
Feb. 13, 1969	McDougal Prof. in Engineering	Engineering	(1)	146,000	331,135	Vacant
June 9, 1979	Newman Prof. in Physical Science	Chemistry	250,000	280,313	464,541	Harold Shechter
Feb. 6, 1981	Nordholt Prof. in Mech. or Metal. Eng.	Engineering	250,000	261,275	476,481	Kenneth J. Waldron
Feb. 3, 1989	O'Donnell Prof. in Philosophy	Humanities	500,000	536,000	548,545	Vacant
Sept. 7, 1979	O'Neill Prof. in Law and Judicial Admin.	Law	250,000	250,004	521,658	Earl F. Murphy
July 11, 1980	Professorship in Plant Protection	Agriculture	250,000	338,834	660,762	Ira W. Deep
Apr. 10, 1969	Pomerene Prof. in the Prevention and Treatment of Infectious Diseases	Medicine	(1)	153,257	356,198	Calvin M. Kumin
Apr. 2, 1976	Powelson Prof. of Medicine	Medicine	150,000	254,787	561,605	Richard H. Wuenke
Apr. 4, 1975	Saslaw Prof. in Infectious Diseases	Medicine	150,000	163,330	353,608	Robert L. Perkins
Apr. 4, 1980	Shepard Endowed Prof. in Insurance	Business	250,000	302,042	594,772	David Mayers
Dec. 8, 1977	Shocknessy Prof. in Law	Law	150,000	130,000	295,127	Douglas J. Whaley
Sept. 5, 1986	Stanley Prof. in Law	Law	500,000	500,700	572,336	Michael D. Rose
Jan. 9, 1981	Topper Prof. in Law	Law	250,000	243,348	328,209	Howard P. Fink

<u>Date</u>	<u>Description</u>	<u>College</u>	<u>Amount</u> <u>Required</u> <u>for Full</u> <u>Funding</u>	<u>Book</u> <u>Value</u>	<u>Market</u> <u>Value</u>	<u>Holder of Professorship</u>
Nov. 1, 1985	VanBuren Prof. in Farm Mgt.	Agriculture	\$250,000	\$250,100	\$ 323,202	Bernard L. Erven
Apr. 15, 1985	Wiley Prof. in Phy. Med. and Rehab. Med.	Medicine	250,000	286,467	374,250	Vacant
Feb. 2, 1981	Wilson Prof. in Cardiology	Medicine	250,000	393,368	604,340	Robert J. Cody
Feb. 4, 1977	Wilson Prof. in Orthopedic Surg.	Medicine	150,000	151,775	338,340	Sheldon R. Simon
Apr. 10, 1969	Arthur Young Prof. in Accounting	Business	(1)	370,485	658,425	Andrew D. Bailey
Sept. 8, 1972	Youngberg Trustees Distinguished Prof.	Academic Affairs	150,000	351,608	613,331	Kenneth G. Wilson
June 7, 1973	Youngberg Prof. of Vet. Medicine	Vet. Med.	150,000	286,000	597,415	Robert L. Hamlin

Designated Professorships (2)

July 1, 1970	Duriron Co. Prof. of Metal. Eng.	Engineering	(2)	(2)	(2)	Carroll E. Mobley
May 3, 1985	Mason Desg. Prof. in Trans. and Logistics	Business	(2)	(2)	(2)	Bernard J. Lalonde
June 12, 1980	Platt-Porter, Wright, Morris and Arthur	Law	(2)	(2)	(2)	Lee M. Modjeska
Sept. 7, 1979	Presidents Club Prof. in Law	Law	(2)	(2)	(2)	Lawrence Herman
Sept. 8, 1978	Wiant Desg. Prof. in Chinese Lit. and Culture	Humanities	(2)	(2)	(2)	John C. Huntington

(1) 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 9/3/85, 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

<u>Date Established</u>	<u>Description</u>	<u>College</u>	<u>Amount Required for Full Funding</u>	<u>Book Value</u>	<u>Market Value</u>	<u>Holder of Chair</u>
Feb. 3, 1986	Bank One Chair of Excellence	To be Determined	\$1,000,000	\$316,949	\$356,500	Awaiting completion of funding
Nov. 24, 1986	Dorothy M. Davis Chair In Cancer Research	Medicine	\$1,250,000	\$525,000	\$594,744	Awaiting completion of funding
Dec. 17, 1985	John Deaver Drinko - Baker & Hostetler Chair of the College of Law	Law	\$1,250,000	\$1,750,000	\$2,053,443	Robert J. Lynn
Dec. 6, 1985	Berry Chair of New Technologies in Marketing	Business	\$1,000,000	\$1,000,000	\$1,179,295	Vacant

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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 Achterman
- 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

	<u>Faculty</u>	<u>A&P</u>	<u>CCS</u>	<u>Specials</u>	<u>Total</u>
FTE 7/31/88	153	197	283	80	713
Base FTE 3/31/89	149	186	263	76	673
Target FTE 6/31/91	129	152	225	55	561
(% Reduction)	(-13%)	(-18%)	(-14%)	(-28%)	(-17%)
Current Plan Reductions	15	40	23	35	113

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

General Receipts Bonds:	Due Date	Rate	Outstanding
			Debt
Series 1985 A	1986-2001	7.740%	\$22,945,000
Series 1985 B	1986-2001	Variable(5.212%)	33,400,000
Series 1986 A	1987-2001	7.210%	41,185,000
Series 1986 B	1987-2006	Variable(5.232%)	45,000,000
Total			<u>\$142,530,000</u>
Dormitory Revenue Bonds:			
Series A	1960-1997	4.180%	\$2,097,000
Series C	1961-1999	3.920%	600,000
Series E	1963-2000	3.840%	2,137,000
Series H	1963-1990	3.468%	100,000
Series I	1971-2006	4.490%	5,640,000
Total			<u>\$10,574,000</u>
TOTAL BONDS PAYABLE			<u>\$153,104,000</u>

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			<u>\$6,825,000</u>
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)	1986-2011	11.330%	533,208
HNB (Airport "C" Hangars)	1986-2011	11.330%	1,188,897
Leasemark (Computer Eq.)	1986-1992*	7.9-10.0%	164,522
U.S. Dept.Ed (R&DH Energy)	1987-1991	3.000%	242,761
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 Lsng. (Computer Eq.)	1985-1992*	10.54-12%	19,804
Chase Lsng. (Super Computer)	1987-1991	7.66%	3,538,259
Total			<u>\$8,961,503</u>
TOTAL NOTES PAYABLE			<u>\$15,786,503</u>

TOTAL PLANT INDEBTEDNESS

\$168,890,503

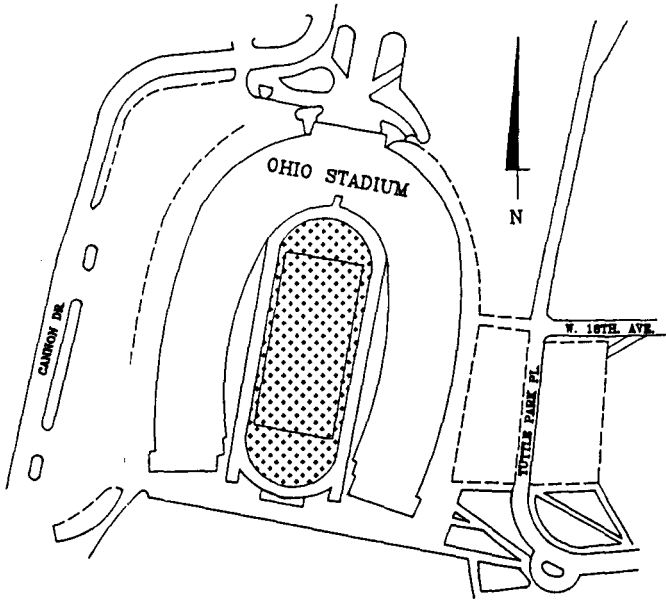
* Indicates more than one lease

APPENDIX X

**OHIO STADIUM TURF REPLACEMENT
NORTH ATHLETIC COMPLEX PLAYING FIELDS**

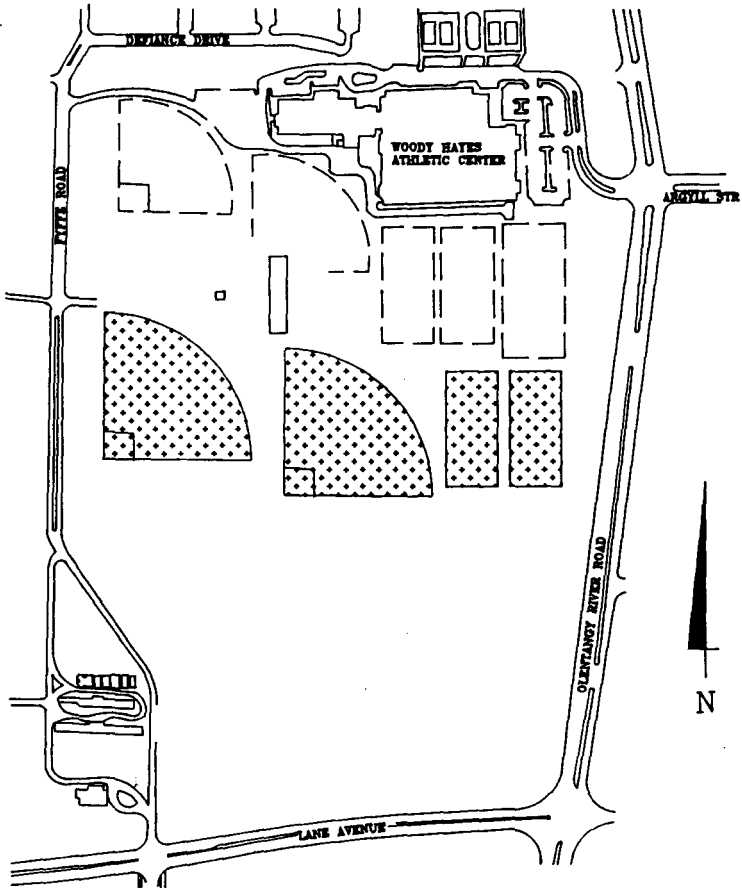
**Adopted by the Board of Trustees August 23, 1989
(See page 208)**

OHIO STADIUM TURF REPLACEMENT



OFFICE OF BUSINESS AND ADMINISTRATION
AUGUST 23, 1989

NORTH ATHLETIC COMPLEX PLAYING FIELDS



OFFICE OF BUSINESS AND ADMINISTRATION
AUGUST 23, 1989

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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)

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

SITE RENOVATION AND BRIDGE AND STREET IMPROVEMENTS, PHASE I

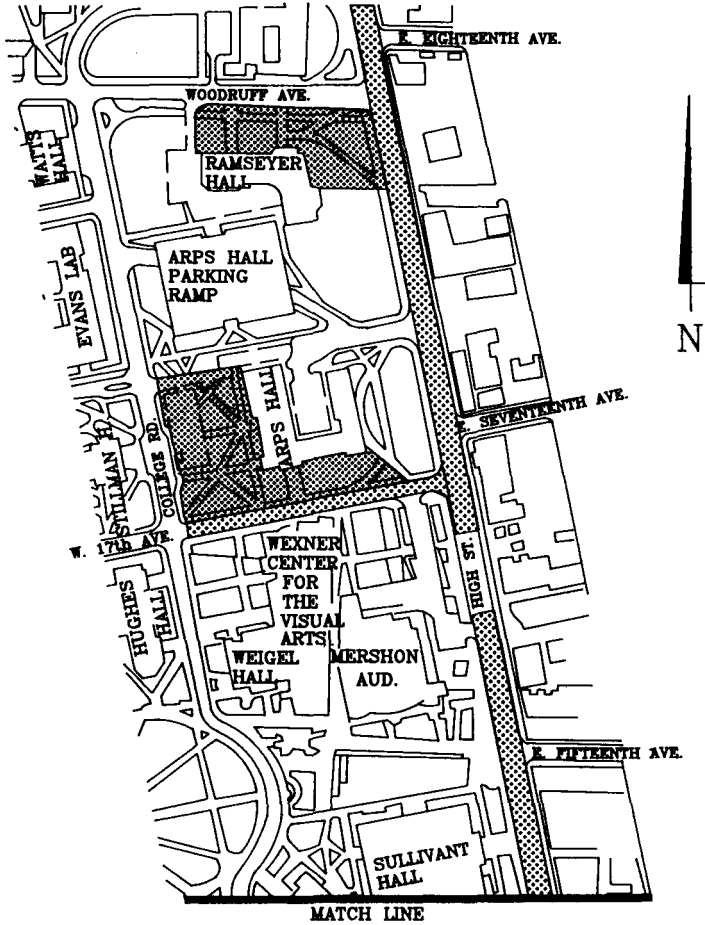
Tabulation of Bids

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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Dugan & Meyers</u>	<u>*B.S. Contractors</u>	<u>Coady Contracting</u>
Base Bid Only- (No alternates)	\$765,800.00	\$648,700.00	\$719,888.00	\$887,442.88
Total General Contract	\$765,800.00	\$648,700.00	\$719,888.00	\$887,442.88

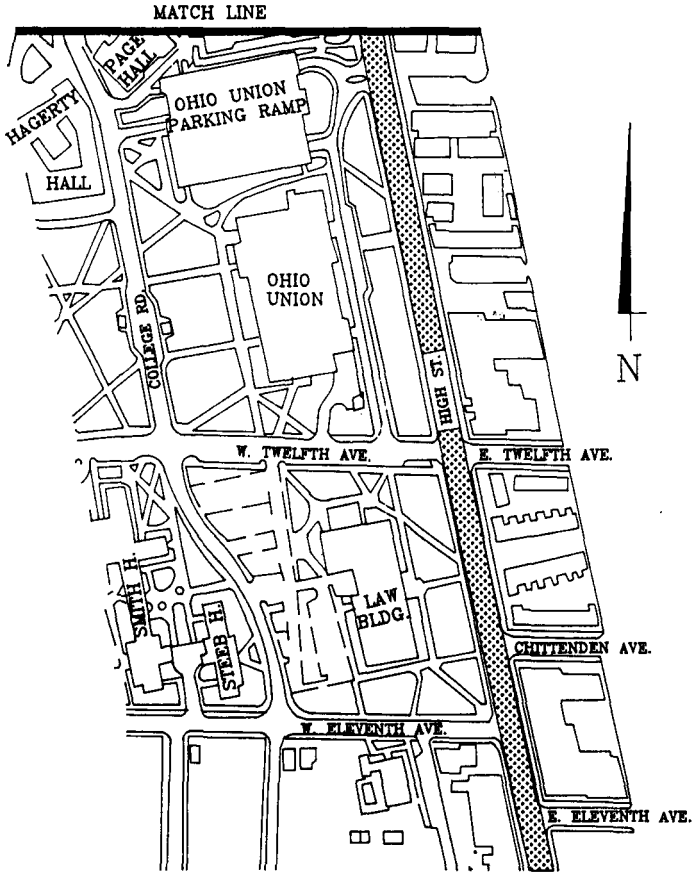
<u>Electric Contract</u>	<u>Estimate</u>	<u>Clagget *</u>	<u>Romanoff</u>	<u>Frush & Roman</u>	<u>Jess Howard</u>
Base Bid Only (No alternates)	\$95,000.00	\$84,234.00	\$84,497.00	\$89,950.00	\$91,700.00
Total Electric Contract	\$95,000.00	\$84,234.00	\$84,497.00	\$89,950.00	\$91,700.00

SITE RENOVATIONS
BRIDGE AND STREET IMPROVEMENTS
PHASE I



OFFICE OF BUSINESS AND ADMINISTRATION
AUGUST 23, 1969

SITE RENOVATIONS
BRIDGE AND STREET IMPROVEMENTS
PHASE I



OFFICE OF BUSINESS AND ADMINISTRATION
AUGUST 23, 1989

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 Geri Hendrickson and tabulated by Liz Foster. Awards indicated with an "*".

<u>General Contract</u>	<u>Estimate</u>	<u>B. S. Contractors *</u>	<u>Ed Ross</u>	<u>Functional Dev.</u>	<u>Gutknecht</u>
Base Bid	\$299,125.00	\$258,877.00	\$281,900.00	\$297,490.00	\$302,278.00
Alt. G-1 (Kitchen Equip.)	39,712.00	34,746.00	38,100.00	38,220.00	36,900.00
Alt. G-3 (H.E. Educ.)	28,657.00	14,507.00	21,200.00	17,750.00	27,600.00
Total General Contract	\$367,494.00	\$308,130.00	\$341,200.00	\$353,460.00	\$366,778.00

Alternates not taken:

Alt. G-2 (H.E. Admin)	\$7,046.00	\$12,438.00	\$12,000.00	\$10,990.00	\$10,800.00
Alt. G-4 (Gypsum Bulkhead)	3,149.00	8,070.00	8,200.00	4,450.00	4,200.00

	<u>Hurley</u>	<u>Good Home Maint.</u>	<u>Williamson</u>	<u>Waller & Lund</u>	<u>Ohio State Constr.</u>
Base Bid	\$302,850.00	\$316,848.00	\$329,000.00	\$316,860.00	\$326,600.00
Alt. G-1 (Kitchen Equip.)	39,250.00	39,341.00	37,178.00	40,000.00	37,400.00
Alt. G-3 (H.E. Educ.)	29,850.00	26,532.00	24,452.00	34,500.00	29,700.00
Total General Contract	\$371,950.00	\$382,721.00	\$390,630.00	\$391,360.00	\$393,700.00

Alternates not taken:

Alt. G-2 (H.E. Admin)	\$11,850.00	\$11,934.00	\$10,255.00	\$16,000.00	\$11,400.00
Alt. G-4 (Gypsum Bulkhead)	.00	4,782.00	6,527.00	9,000.00	4,250.00

<u>Plumbing Contract</u>	<u>Estimate</u>	<u>Stevens Painton *</u>	<u>Farber</u>	<u>Dievald & Pope</u>
Base Bid	\$176,670.00	\$159,000.00	\$175,000.00	\$198,000.00
Alt. P-1 (Kitchen Equip.)	2,300.00	6,500.00	5,000.00	2,891.00
Alt. P-3 (H.E. Educ.)	6,750.00	1,050.00	500.00	815.00
Total Plumbing Contract	\$185,720.00	\$166,550.00	\$180,500.00	\$201,706.00

Alternates not taken:

Alt. P-2 (H.E. Admin)	\$2,000.00	\$900.00	\$1,500.00	\$808.00
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REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

CAMPBELL HALL LABORATORY REMODELING (CONTINUED)

Tabulation of Bids (Continued)

<u>HVAC Contract</u>	<u>Estimate</u>	<u>Farber *</u>	<u>J. A. Guy</u>	<u>Stevens Painton</u>
Base Bid	\$155,590.00	\$179,700.00	\$187,300.00	\$190,400.00
Alt. H-3 (H.E. Educ.)	10,800.00	5,500.00	5,000.00	4,200.00
Total HVAC Contract	\$166,390.00	\$185,200.00	\$192,300.00	\$194,600.00

Alternates not taken:

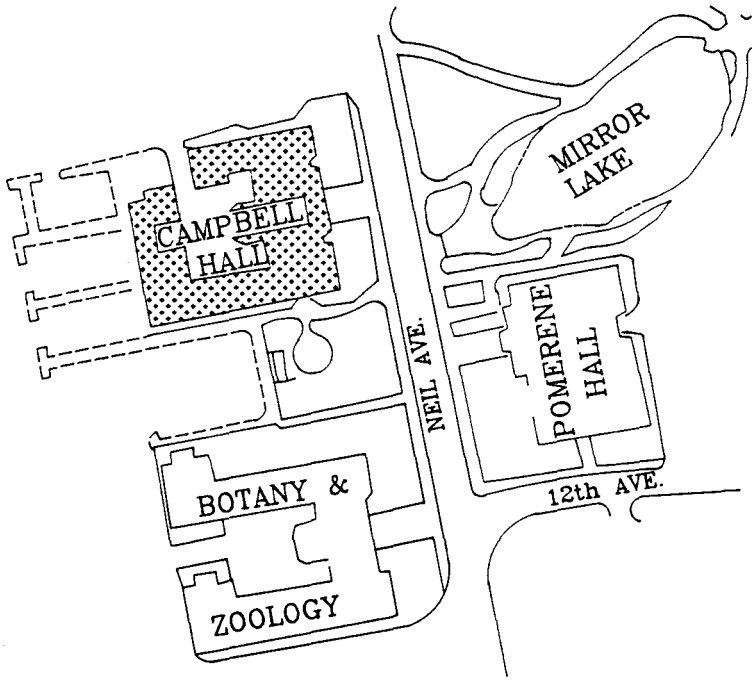
Alt. H-2 (H.E. Admin)	\$9,550.00	\$4,400.00	\$5,300.00	\$4,200.00
Alt. H-5 (Stainless Hood)	3,000.00	4,000.00	4,000.00	4,500.00
Alt. H-6 (Cooling Tower)	20,000.00	18,500.00	21,000.00	15,200.00

<u>Electric Contract</u>	<u>Estimate</u>	<u>Buckeye *</u>	<u>Demos</u>
Base Bid	\$140,970.00	\$119,630.00	\$208,556.00
Alt. E-1 (Kitchen Equip)	1,500.00	2,095.00	790.00
Alt. E-3 (H.E. Educ.)	10,735.00	6,584.00	19,580.00
Total Electric Contract	\$153,205.00	\$128,309.00	\$228,926.00

Alternates not taken:

Alt. E-2 (H.E. Admin)	3,445.00	4,269.00	5,540.00
Alt. E-6 (Cooling Tower)	1,250.00	300.00	1,380.00

CAMPBELL HALL LABORATORY REMODELING



OFFICE OF BUSINESS AND ADMINISTRATION
AUGUST 23, 1989

APPENDIX XII

COLLEGE ROAD STORM SEWER EXTENSION

Adopted by the Board of Trustees August 23, 1989
(See page 211)

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

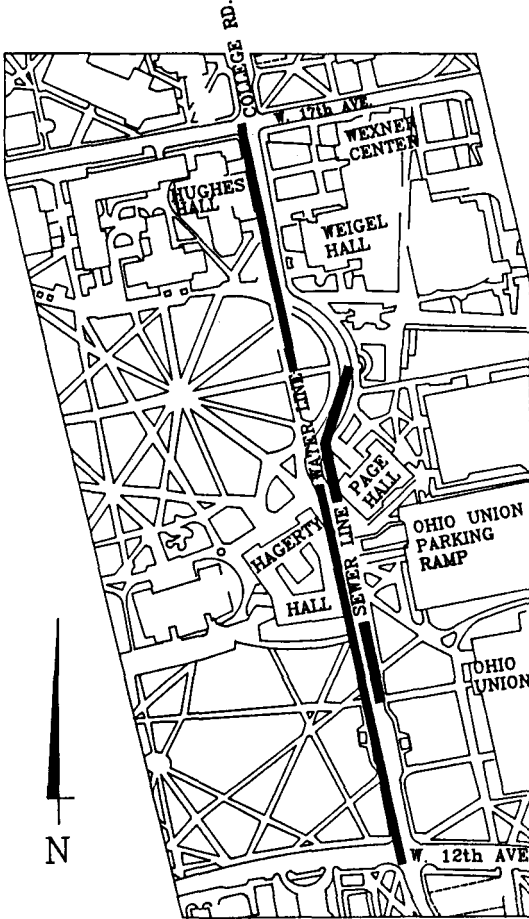
COLLEGE ROAD STORM SEWER EXTENSION

Tabulation of Bids

Bids received by The Ohio State University on August 15, 1989. Bids opened by Tamara Bell and tabulated by Ray Janscik. Awards indicated with an "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Concrete Constr. *</u>	<u>Richter</u>	<u>Complete General</u>
Base Bid	\$350,000.00	\$149,000.00	\$212,386.00	\$225,000.00
Alt. G-1 (Water Line)	.00	67,000.00	25,000.00	85,000.00
Total General Contract	\$350,000.00	\$216,000.00	\$237,386.00	\$310,000.00

COLLEGE ROAD STORM SEWER EXTENSION



OFFICE OF BUSINESS AND ADMINISTRATION
AUGUST 23, 1989

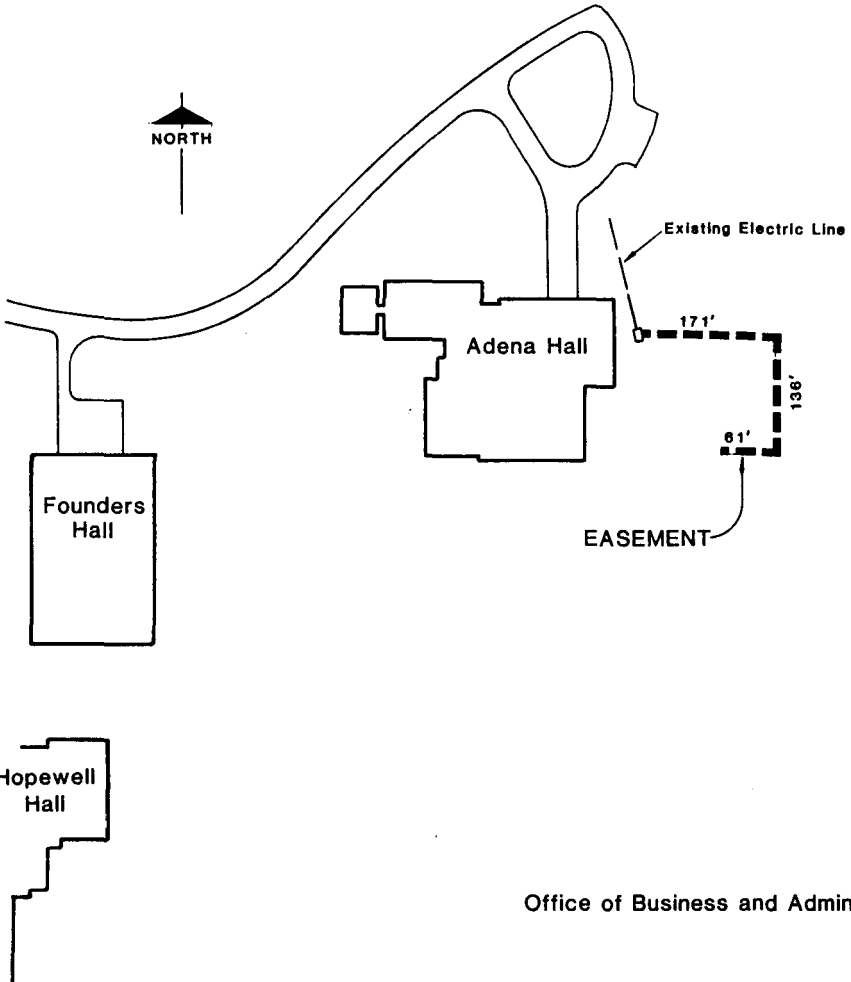
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APPENDIX XIII

**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

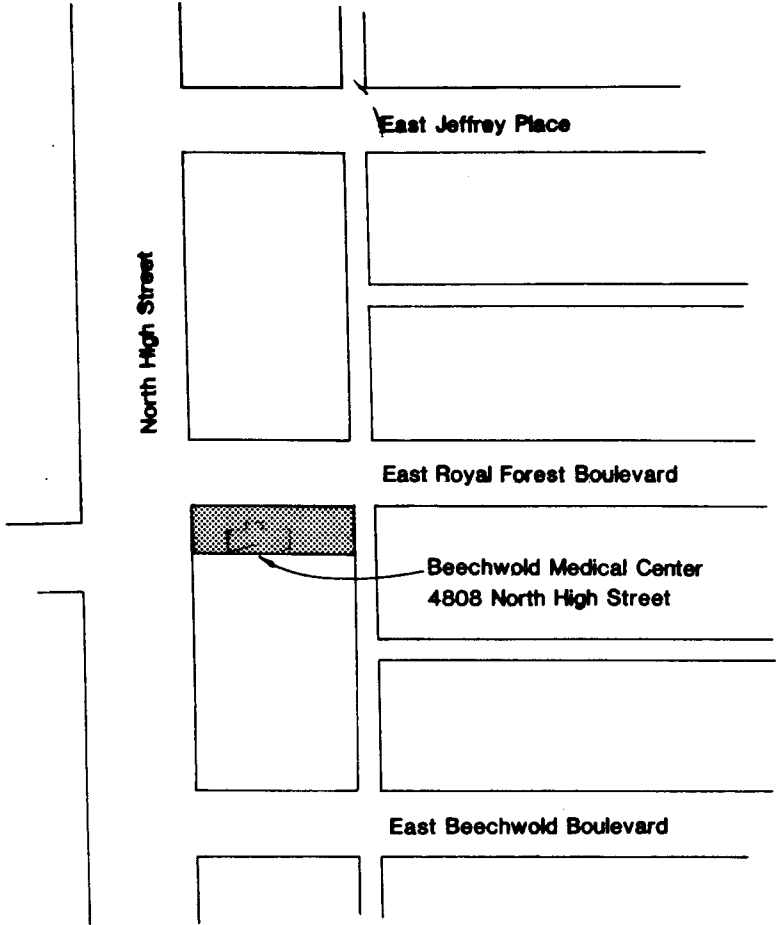


APPENDIX XIV

BEECHWOLD MEDICAL CENTER, COLUMBUS, OHIO

**Adopted by the Board of Trustees August 23, 1989
(See page 214)**

Lease of the Beechwold Medical Center at 4808 North High Street



Office of Business and Administration

APPENDIX XV
Degrees Conferred at
THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION
August 31, 1989

Commencement Speaker

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 graduate 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. Koenigsnecht

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. Gottling

Ioan Adonyi-Bucuroiu, Gyuat Nesher, Israel; B.S. (Polytechnical Institute); M.S.; *Welding Engineering*
Dr. W. A. Baeslack III

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Dr. R. Monaghan

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Dr. Frank Himes

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Dr. Gifford Weary

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Dr. Barry L. Nelson

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Dr. Mukesh Singhal

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- Eric John Swelstad**, 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 Titre**, 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 Trego**, 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*
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- Naomi Nishimura Valentine**, Columbus; B.S. (Asia University); *East Asian Languages and Literatures*
- Ronni (Veronica) G. Valentino**, Columbus; B.S. (Bowling Green State University); *Health, Physical Education and Recreation*
- 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 Davitt Volio**, Columbus; B.S.Ed.; *Education*
- Andrea Jane Von Amelunxen**, Little Neck, NY; B.A. (Wittenberg University); *Education*
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- 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. (Wilmington College); *Education*
- Susan J. Wendt**, 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.Al.Hth.Prof.; *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. Wynkoop**, 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 Elhamimanes, 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*

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Tsui-Yi Tseng, Miaoli, Taiwan, R.O.C.; B.A. (Chinese Culture University); *City and Regional Planning*

Master of Fine Arts

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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 James, Gainesville, FL; B.F.A. (University of Florida); *Art*

Ming Te Lin, Taipei, Taiwan, R.O.C.; B.A. (National Taiwan Normal University); *Art*

Athanasios Maggioros, Athens, Greece; B.F.A.; *Art*

Christina Caravajal Quiroz, San Antonio, TX; B.F.A. (Corpus Christi State University); *Art*

Robert Tavani, Erie, PA; B.F.A. (Columbus College of Art and Design); *Art*

Renee Ann Witherwax, Columbus; B.F.A. (University of Nebraska at Lincoln); *Art*

Master of Health Administration

Roland Conard Griggs, Columbus; A.B. (Dartmouth College); M.D.; *Hospital and Health Services Administration*

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*

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Diana Lynn Weaver, Marysville; B.S. (Bowling Green State University); *Labor and Human Resources*

Master of Landscape Architecture

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Whee Kyoung Kang, South Korea; Bachelor's (Kyunghee University); *Landscape Architecture*

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Jesse Isaac Hernandez, San Antonio, TX; B.Mus. (University of Texas at San Antonio); *Music*

Charles Gregory Washington, Milwaukee, WI; B.Mus. (Fisk University); *Music*

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- Russell William Poe**, Carmel, IN; B.S. (University of Michigan); *Chemistry*
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- Cynthia Lynn Price**, Mt. Vernon; B.S.Agr.; *Agricultural Education*
- Sabrina Caroline Pugh**, Grandville, MI; B.S.H.E.; *Home Economics*
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- Anil Sathyanarayana Rao**, Bangalore, India; B.Tech. (Indian Institute of Technology); *Computer and Information Science*
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- Wendy Lee Reiboldt**, Hamilton; B.S. (Miami University); *Home Economics*
- Bernard James Renggli**, Kent; B.S.M.E.; *Mechanical Engineering*
- Ingrid Karen Richards**, Tacarigua, Trinidad & Tobago; *Home Economics*
- Darci 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*
- Esmail Samimy**, Columbus; B.S. (State University of New York at Stony Brook); *Mechanical Engineering*
- Agus Santoso**, Temanggung, Indonesia; B.S. (Garjadama University); *Geodetic Science and Surveying*
- Suriyaarachchige Dayaratne Saratchandra**, 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*
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- Catherine Marie Scipione**, Worthington; B.S. (Xavier University); *Statistics*
- Thomas John Sefcik**, Westerville; B.S. (United States Air Force Academy); M.S. (Purdue University); M.S. (North Dakota State University); *Engineering Mechanics*
- Gannegoda Appuhamilage Yasanti Seneviratne**, Colombo, Sri Lanka; B.A. (Miami University); *Food Science and Nutrition*
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- Daniel Mark Wuescher**, Brook Park; B.S. (Cleveland State University); *Electrical Engineering*
- Baiping Xie**, P.R.C.; B.S. (Sichuan University); *Mathematics*
- Chihheng Yeh**, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); *Civil Engineering*
- Thomas Aquinas Yonchak**, Chesterland; B.S. (Loyola University of Chicago); D.D.S.; *Dentistry*
- Veronica Lynn Zawada**, Springfield; B.S.Nurs.; *Allied Medical Professions*
- Shun-De Zhao**, Israel; B.S. (Wuhan Technical University of Surveying and Mapping); *Geodetic Science and Surveying*
- Xuejin Zheng**, Shanghai, P.R.C.; B.E. (Zhejiang University); M.E. (Shanghai Institute of Metallurgy); *Metallurgical Engineering*
- Binbing Zhou**, P.R.C.; B.S. (Fudan University); *OSU Biochemistry Program*

Master of Social Work

- Carole Songy Delaforet**, Worthington; B.S. (Loyola University); *Social Work*
- Ruth Victoria Heldman**, West Islip, NY; B.A. (The College of Wooster); *Social Work*
- Edwin Harry Heller**, Dublin; B.A. (Ohio Wesleyan University); *Social Work*
- Barbara-Mary Rossler**, Springfield; B.A. (Ohio University); *Social Work*

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College of Biological Sciences
College of Humanities
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Pamela Jane Tofil, Youngstown
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Elizabeth Kay Bonar, Mansfield
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Donita Evonne Brown, Forest Park
Scott Fitzgerald Brown, Worthington
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John Andrew Burns, Canfield
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James Brian Lautzenheiser, Massillon
Jennifer S. LeBoeuf, Dayton
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Mi S. Lim, Vermilion
Steve Ellis Lintner, Canton
Todd Alan Lynch, Sandusky
Sean Gallagher Madden, Hudson
Michael Anthony Manocchio, Seven Hills
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 Joe A. Silvestri, Westerville
 Michael Damian Slogar, Willoughby
 Dean Joseph Smith, Cleveland
 Denise Michelle Smith, Middletown
 Thomas Christopher Snide, Columbus
 J. David Sopko, Columbus
 Stacey Annette Sowa, Strongsville
 Jennifer Margaret Speicher, Mentor
 Todd Louis Spence, Columbus
 Rami Jason Spencer, Columbus
 Dennis A. Spittler, Mentor
 Jeffery G. Sprague, Oregon

Jenifer Anne Spreitzer, Columbus
 David Michael Stacey, East Liverpool
 Lauren Sue Stein, Dublin
 Kristen Leigh Steinicke, Mentor
 Mary E. Stichter, Columbus
 Lisa Denise Stone, Springfield
 Lisa Elaine 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
 Trina Sue Tolliver, Loveland
 Gerald A. Tout, Proctorville
 Page Kelly Townsend, Chevy Chase, MD
 Lisa Ann Trempert, Worthington
 Robert Dwight Underhill, Carroll
 Willem Ludolph van der Hoeven, Dayton
 Sally Jo Vance, Dayton
 Christine S. Vandine, Pickerington
 Mark 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 Winbigler, Shelby
 DeLaina J. Wingo, Columbus
 Dolianna Marie Wittkopp, Gahanna
 Michael Paul Wong, Chesterfield, MO
 Russell Curtis Wood, Findlay
 David Edward Woods, Columbus
 Tsz 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 Zielke, Gahanna

Logan Bee Dysart, Columbus
 Rita Joan Ervin, Nevada
 Stefan Tomas Farrenkopf, Columbus
 Julie Marie Fasano, Englewood
 Jodi Ellen Fishman, Columbus
 Kimberly Dianne Fuller, Smithville
 Ellen Jean Fundermark, 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. Hauck, Newark
 Linda Marie Himes, Westerville
 Albertina Dora Hoelker, Orient
 Tracy Ann Holstein, Boardman
 Amy Michelle Hullhorst, Marion
 Diane Mary Ingber, Columbus
 Gail Lynn Johnson, Worthington
 Rebecca Anne Jozwiak, Westerville
 Mark Wesley Kelley, Mansfield
 Linda Lou Kilmer, Grove City
 Kelly Renee Kinder, Columbus
 James Edward Kloenne, Cincinnati
 Dawn Marie Krause, Delaware
 Erin Kathleen Krause, Delaware
 Monica Marie Lachman, Columbus
 John Damon Lance, 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

College of Education

Dean: Donald P. Anderson

Bachelor of Science in Education

Jennifer Sue Arth, Marysville
 Laurie A. Ashline, Fredonia, NY
 Jodi Rae Back, Frazeeburg
 Robin Nicole Bartholomew, Galloway
 Richard Eugene Batts, Jr., Columbus
 Alan James Bell, Whitehall
 Julie Ann Brooks, Columbus Grove
 Pamela Jean Burich, Austintown
 Jannette E. Carter, Columbus
 Lynn Chrisman, 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

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
 Lauri Kathleen Rowat, Perrysville
 Michael Anthony Sansone, Lansing
 Susan Kay Shoaf, Marion
 Gregory Lee Standley, Bellefontaine
 Michelle Snader Staton, 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 Ghawi, Beirut, Lebanon
Jeffrey Joseph Rago, Trenton, NJ
Timothy John Rozmajzl, Akron
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
Matthew Edward Miller,
New Philadelphia
Steven Nicholas Sacoolas, Lancaster, PA
Joseph Gray Seaborn, Austintown
Mark Werner Steinbicker, Beavercreek
Nicholas Gene Tagliaferri, Jr., Wickliffe
Tje Hauw Tjhin, Jakarta, Indonesia

Bachelor of Science in Ceramic Engineering

Randall A. Novak, Mansfield
Daryl Edward Stewart, Cincinnati

Bachelor of Science in Chemical Engineering

James Christopher Allen, Lima
Catherine L. Bothe, Horseheads, NY
Michael Anthony Mendicino, Marietta
Johnwei Muljono, Medan, Indonesia
Abeer Maan Osman, Columbus
Stephen Otero, Jr., Albuquerque, NM
Michael John Smith, Perrysburg
Minming Sungkono, Jakarta, Indonesia
Amy Kathleen Turner, Columbus

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 Martin Peterson, Perry
Kristina Tiara, Surabaya, Indonesia
Richard Michael Van Schaik, Columbus

Bachelor of Science in Electrical Engineering

Adel Ben Abdennour, Kebili, Tunisia
Robert Joseph Berg, Parma Heights
David Alan Bradley, Columbia, MO
Veera Chupongstimun,
Bangkok, Thailand
Christopher John DeMattio, Steubenville
Maria Theresa Dennis, Cincinnati
Thomas Everett Foltz, Millersport
Douglas Ray Hoover, Jr., Hilliard
David Clement Kehres, 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 Wallis, 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 Kralick, 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 Lynette Eikleberry, Columbus
Craig Alan Foster, Batavia
Michael Alan Garbrant, Johnstown
James David Heft, Lewisville
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 Placzankis, North Olmsted

Bachelor of Science in Surveying

Lois Ann Brunty, 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 Castrejon, Mexico City, Mexico
Lawrence Brittain Elswick, Beverly
Paul Andrew Taylor, Sunbury
Michael Paul Walther, 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 Eileen 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

Michelle Anne Hartle, Kenton
 Kathleen Ann Heeg, Columbus
 Lisa Close Hess, Columbus
 Lori Karen Hofmann, Cincinnati
 Mark Henry Johnson, Warren
 Sandra Jo Kauber, Pataskala
 Kristi Lynn Krebs, Streetsboro
 William Patrick Kyle, Cleveland
 Larysa Leah Lackman, Apple Creek
 Michelle Kaye Leffel, Newark
 Jamee Lynn Lewis, Columbus
 Christina Marie Meyer, Wilmington
 Sue Ling Moy, Middleburg Heights
 Mary H. Nicolosi, Columbus
 Phyllis Rea Pennington, Westerville
 Jennifer L. Reed, Columbus
 Judith Ann Rich, Cleveland
 Ingrid Karen Richards, Trinidad,
 West Indies
 Stephanie Sue Romig, Dennison
 April Joan Root, Cincinnati
 Amy Renee Roseman, Willoughby
 Amy Lynne Schuman, Dayton
 Dana Ann Sernel, Chardon
 Tamara Sue Siegel, University Heights
 Cheryl Dawn Smith, Westerville
 Jennifer Lynn Sprague, Lima
 Felicia Dawn Starcher, Uniontown
 Amy Sullivan, Dublin
 Lori Joy Teitel, Cleveland Heights
 Shelly Lynn Terman, Toledo
 Lisa Gay Tuxhorn, Beavercreek
 Michael Christopher Vivio, Kettering
 Melanie Ann West, Marengo

Bachelor of Science in Hospitality Management

Dawn Michelle Beard, Urbana
 Cheryl Lynn Bergsman, Birmingham, MI
 Robert Lee Bowman, Springfield
 Timothy Joseph Boyer, Columbus
 Elizabeth Nicole Canestraro, Minerva
 Stephen Bernard Chaykowski, Montua
 Daniel Brian Folk, Columbus
 Susan Regina Franke, Columbus
 Darlene Lynn Frasher, Kent
 Nicolas Elie Kurban, Columbus
 Howard Jeffrey McFarland, St. Clairsville
 Kathleen Ann Oravec, San Antonio, TX
 Lawrence Christopher Penick, Shadyside
 Christina L. Peterman, Mentor
 Suellen Sandwisch, Oak Harbor
 Mitchell Scott Seifert, South Euclid
 Kelly Anne Steward, Marion
 Janette Marie Subler, Versailles
 Carolyn Joan Tierman, Solon
 Rita Ann Westhoff, Columbus

Bachelor of Science in Nutrition

Susan Marie Brennan, Tallmadge

Bachelor of Science in Restaurant Management

Anthony Perry Thomas, Cincinnati

College of Medicine

Dean: Manuel Tzagournis, M.D.

Doctor of Medicine

Kurt Thrall Stroebel, 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
 Marilyn Ann Proctor, Columbus
 Tina Marie Romeo, Shinnston, WV
 Debra DeAnn Sinclair, Greenwood, WV
 Gail Iris Smith, Cincinnati
 Clarice Dawn Spiss, 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
 Jenifer Lynn Moore, Shiloh
 Jennie Maria Saunders, Columbus
 Susan Joanne Wilbur, Mansfield
 Gail Kathleen Wood, Mansfield

College of Pharmacy

Dean: John M. Cassidy

Doctor of Pharmacy

Mark Franklin Bonfiglio, Toledo
 John Edward Folstad, Vernon, CT

Bachelor of Science in Pharmacy

Falguni Kris Bhatt, Columbus
 Brian Dean Blocker, Barberton
 Kimberly Ann Boian, Amherst
 Patricia Raye Buchanan, Canton
 Anthony Duane Carr, New Matamoras
 Steven Michael Crainich, Dayton
 Micheal F. Darson, Columbus
 Gail Elizabeth Day, Columbus
 George Harlan Day, Columbus
 David Michael Dzion, Parma
 Michael Joseph Gabriel, Salem
 Amy Lynn Green, Amanda
 Helen Kathleen Hess, Elyria
 Heidi Lynn Johnsen, West Chester
 Jennifer Lynn Kibbey, Columbus
 Karol Ann Kovach, Sebring
 Lisa M. Marmon, Massillon
 Valorie Jayne Müille, 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 Staschiak, Findlay
 David Michael Tamulionis, Youngstown
 Dorothy Elaine Urbank, Cuyahoga Falls
 Jason Todd Wehl, Marietta
 Roy Clement Wiff, Canfield
 Douglas Vernon Yeager, Warren

College of Social Work

Dean: Richard E. Boettcher

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)

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 circricular 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
Karl James Frey
Adam Frix
Ellen Jean Fundermark
Andrea Kari Gibbs
Greg Robert Grabovac
Wendy L. Gregory
Frances Louise Haldar
Neil Douglas Harder
Gary Lynn Hart
Gail Lynn Johnson
Michael Patrick Keegan
David Clement Kehres
Susan J. Kiemeyer
Masami Mitsui
Jenifer Lynn Moore
David Allen Nagy
Deborah Harter Pfahl
Timothy John Rozmajzl
Nancy Anne Siefker
Stéphane Joseph Spoiden
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 Amsbary
Christopher David Lima
Charles Edward McGroarty

With University Honors

Steven Berg
Catherine L. Bothe
Christopher John DeMatti
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
Micheal F. Darson
Jennifer Ruth Davis
Lynne 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.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Leslie H. Wexner, Alex Shumate, Sophia L. Paige, and Laurel A. Davis.

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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 Tzagourmis; 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.

HOSPITALS BOARD REPORT (contd)

Dr. Kramer: (contd)

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.

HOSPITALS BOARD REPORT (contd)

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

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

HOSPITALS BOARD REPORT (contd)

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.

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.

HOSPITALS BOARD REPORT (contd)

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.

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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.

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.

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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.

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.

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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.)

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ACADEMIC AFFAIRS COMMITTEE REPORT

Ms. Casto:

This morning we heard from Dr. Jim Bishop on the Young Scholars Program, which is a youth program for minorities 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 share 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 Stater'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 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. In respect of the School he has been a tireless and effective fund raiser and he was instrumental in launching the Graduate Associate program. Moreover, he has taught a design course each year, served on various juries and reviews, and he is a member of the School's Advisory Board. He has led efforts to strengthen the architecture library and he has vigorously promoted the School locally, and throughout Ohio and the nation. Indeed, he has served continuously as an informal advisor on all matters pertaining to the development of the School.

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.

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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 Botony

October 6, 1989 meeting, Board of Trustees

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.

October 6, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

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. TARIQ 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.

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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).

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.

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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.

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 Souther 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 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

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.

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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.)

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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:

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

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	169	\$14,099,696.92
Engineering Experiment Station	66	\$ 1,015,894.00
Total	235	\$15,115,590.92

The Ohio State University Development Fund

Establishment of Designated Professorship

The American Electric Power Professorship of Power Systems Engineering (Professorship)	\$ 20,000.00 Annually
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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

October 6, 1989 meeting, Board of Trustees

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

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - August 1989

Federal Research Contracts/Grants

\$1,807,124.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Manpower for Agricultural Development in Uganda, Office of International Programs in Agriculture (D. O. Hansen and J. M. Erbaugh), 1 October 1989 through 30 September 1990. (Project 764443 - Continuation)

\$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 Ia 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)

\$184,107.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Upward Bound Program, Office of Minority Affairs (L. K. Jackson), 1 September 1989 through 31 August 1990. (Project 767700 - New)

\$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)

\$150,008.00 - 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)

\$145,400.00 - Department of Energy, Argonne, Illinois, Molecular Ferromagnetism, Department of Physics and Department of Chemistry (A. J. Epstein), 1 August 1989 through 31 July 1990. (Project 765592 - 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)

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)

\$99,051.00 - International Development Cooperation Agency, Agency for International Development, Mbabane, Swaziland, University Linkage Program in Agriculture: University of Swaziland and The Ohio State University, Office of International Programs in Agriculture (D. O. Hansen), 17 July 1989 through 30 June 1991. (Project 767716 - New)

\$97,109.00 - 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)

\$95,403.00 - Department of Agriculture, Science and Education, Washington, D.C., Serotypic Characterization of Porcine Rotaviruses Using Gene 9 cDNA Probes, Food Animal Health Research Program - OARDC (L. J. Saif), 1 September 1989 through 31 August 1991. (Project 767538 - New)

\$92,834.00 - Department of Education, Office of Educational Research and Improvements, 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)

\$90,550.00 - 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)

\$87,442.00 - 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 764898 - Continuation)

\$87,057.00 - 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)

\$87,000.00 - 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)

\$86,400.00 - 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)

\$80,000.00 - National Science Foundation, Washington, D.C., Identification of Sequences Necessary for the Regulation and Function of p33 in Carrot, Biotechnology Program and Department of Agronomy (M. L. Tierney), 15 August 1989 through 31 July 1990. (Project 767706 - New)

\$80,000.00 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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. Lafyatis), 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 766901 - 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. Maispeis), 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)

\$40,500.00 - National Science Foundation, Washington, D.C., Algebraic and Geometric Topology, Department of Mathematics (M. W. Davis and R. M. Charney), 15 July 1989 through 30 June 1990. (Project 767613 - New)

\$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)

\$36,100.00 - National Science Foundation, Washington, D.C., Bayesian Design and Analysis Stochastic Optimization and File-Merging Methodology, Department of Statistics (P. K. Goel, L. M. Berliner, W. Notz, and S. MacEachern), 15 July 1989 through 30 June 1990. (Project 767762 - New)

\$35,420.00 - National Science Foundation, Washington, D.C., Diatom Biostratigraphy and Antarctic Glacial History Through Reworked and In Situ Microfossils, Byrd Polar Research Center (D. H. Elliot), 1 May 1989 through 31 October 1990. (Project 766757 - 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)

\$32,538.00 - 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 1988 through 30 September 1989. (Project 766472 - Continuation)

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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)

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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)

\$7,000.00 - Department of the Interior, National Park Service, Yellowstone National Park, Wyoming, Local, Regional, and National Coverage of the 1988 Yellowstone-Area Wildfires: Content Analysis and Evaluation, School of Journalism (C. G. Smith), 1 July 1989 through 31 March 1990. (Project 767730 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$2,421.00 - 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)

\$2,029.00 - 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)

\$1,916.00 - 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)

\$1,411.00 - 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)

\$1,137.00 - 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)

\$434.00 - 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 July 1989 through 31 July 1989. (Project 767704 - 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 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

\$210,000.00 - 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)

\$150,000.00 - 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)

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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)

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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)

\$3,749.00 - 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 1989 through 30 September 1990. (Project 767789 - 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)

\$110,374.00 - The R. W. Johnson Pharmaceutical Research Institute, Spring House, Pennsylvania, Topiramate Follow-On Protocols (YK-T and YK-P), Department of Neurology (M. E. Drake, Jr.), 1 June 1989 through 31 May 1992. (Project 767760 - New)

\$108,796.00 - Imperial Chemical Industries PLC, London, England, The Genetic Basis of Specific Symptom Responses in Maize Inbreds and Hybrids to Infection by Maize Chlorotic Dwarf Virus, Department of Agronomy - OARDC (R. C. Pratt), 1 September 1989 through 30 August 1991. (Project 767759 - New)

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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. Lemberger), 1 August 1989 through 31 July 1990. (Project 767772 - New)

\$38,400.00 - Clinical Research International, Inc., Research Triangle Park, North Carolina, A Multicenter, Placebo-Controlled, Parallel-Design, Phase III Evaluation of the Safety of Lamotrigine as Add-On Therapy in Outpatients with Partial Seizures, Department of Neurology (M. E. Drake, Jr.), 1 July 1989 through 30 September 1991. (Project 767774 - 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 PROLYSIS^R (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)

\$15,958.00 - World Book Encyclopedia, Chicago, Illinois, Graduate Student Practicum -- 1989-1990, Education Administration (T. M. Stephens), 1 September 1989 through 30 June 1990. (Project 767752 - Continuation)

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^R (anistreplase; APSAC; BRL 26921) Versus Intravenous Alteplase (t-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 Prostrate 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)

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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)

\$47,163.00 - Robert Wood Johnson Foundation, Princeton, New Jersey, Robert Wood Johnson Dental Services Research Scholar, Community Dentistry (R. A. Kuthy), 1 July 1989 through 30 June 1990. (Project 766819 - 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)

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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, Contrasting 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)

\$25,000.00 - World Bank, Washington, D.C., International Conference: Informal Financial Markets for Low-Income Countries, Department of Agricultural Economics and Rural Sociology (D. W. Adams), 1 October 1989 through 31 December 1989. (Project 767703 - 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)

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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 Nurserymen'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

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)

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)

\$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.

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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.

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.

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.

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.

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**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.

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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.

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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.

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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.

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**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:

<u>Type of Coverage</u>	<u>Total Premiums</u>	<u>University Share</u>	<u>Individual Share</u>
Single	\$ 81.11	\$ 78.11	\$ 3.00
Two Person	162.22	156.22	6.00
Family	256.10	248.10	8.00

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.

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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.

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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
Secretary

John W. Berry
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)



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261

**THE OHIO STATE UNIVERSITY
ENDOWMENT SUMMARY
September 15, 1989**

Endowment Composition

	<u>06-30-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>09-15-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
Equities:				
Chicago Corp.	\$ 34,629,320	13.98%	\$ 37,235,188	14.33%
R. Meeder	0-	0-	14,439,143 (1)	5.56
Nicholas-Applegate	11,475,663	4.63	12,988,716	5.00
Siebel	32,173,227	12.98	34,098,205	13.12
Mutual Fund	13,552,018	5.47	14,632,863	5.63
OSU Managed	<u>80,168,113</u>	<u>32.35</u>	<u>66,781,966</u>	<u>25.70</u>
Total Equities	\$171,998,341	69.41%	\$180,176,081	69.34%
Fixed Income:				
Boatmen's Trust	\$ 23,841,580	9.62%	\$ 23,753,552	9.14%
Cambridge	951,048	0.38	941,730	0.36
Duff & Phelps	10,243,208	4.13	10,249,518	3.95
WR Lazard	0-	0-	10,062,634 (2)	3.87
SIW Fixed Income	24,150,270	9.75	24,055,212	9.26
OSU - GNMA	10,144,887	4.10	10,143,882	3.90
OSU Managed	<u>6,465,211</u>	<u>2.61</u>	<u>466,796</u>	<u>0.18</u>
Total Fixed Income	\$ 75,796,204	30.59%	\$ 79,673,324	30.66%
Total Equities & Fixed Income	\$247,794,545	<u>100.00%</u>	\$259,849,405	<u>100.00%</u>
Real Estate	\$ 39,503,844		\$ 39,704,387	
Total Portfolio	<u>\$287,298,389</u>		<u>\$299,553,792</u>	

(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

	<u>% Yield</u>	<u>% Change in Market Value September '88 to September '89</u>	<u>Total Estimated Return</u>
Equity:			
Common Stock (Chicago Corp.)	3.35% (1)	20.91%	24.26%
Common Stock (R. Meeder)	0.20 (2)	(3.74)	(3.54) (14)
Common Stock (Nicholas-Applegate)	1.56 (3)	30.07	31.63
Common Stock (Siebel)	5.06 (4)	23.30	28.36
Mutual Fund	2.85	24.68	27.53
Common Stock (OSU Managed)	5.74 (5)	14.98	20.72
Standard & Poor's Index	4.07	27.49	31.56
Real Estate:	3.88%	-0- (13)	3.88%
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 (SIW 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 SIW 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) 0.0% 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.
- (15) Endowment Fund Income through September 30, 1989, totaled approximately \$3,827,000.
- (16) Income from University Cash Investments through September 30, 1989, totaled approximately \$3,387,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>09-15-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-89)	\$287,298,389	Equities	\$124,594,786	41.59%
Principal Additions	4,979,256	Fixed Income	75,361,681	25.16
Principal Withdrawals	(45,000)	Real Estate	39,600,000	13.22
Change in Market Value	<u>7,321,147</u>	Cash	<u>59,997,325</u>	<u>20.03</u>
Current Market Value	<u>\$299,553,792</u>	Total Portfolio	<u>\$299,553,792</u>	<u>100.00%</u>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
No Activity			

Real Estate

<u>Sale</u>	<u>Total Investment</u>
No Activity	

**The Ohio State University
Common & Preferred Stock**

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
7,100	Biomet, Inc.	Chicago	26.0183	\$ 184,730.00	\$ 0.00
4,000	Gap, Inc.	"	50.8750	203,760.00	3,040.00
5,600	Home Depot, Inc.	"	34.6530	194,420.80	672.00
4,100	Illinois Tool Works, Inc.	"	45.8720	188,341.70	2,460.00
2,800	RPM, Inc.	"	18.9060	52,936.80	1,736.00
5,100	Telecredit, Inc.	"	37.4020	190,750.00	5,100.00
2,900	Temple-Inland, Inc.	"	66.1870	192,130.80	3,364.00
6,900	Textron, Inc.	"	27.5500	190,543.50	6,900.00
2,000	Baxter International, Inc.	Nicholas- Applegate	23.6250	47,370.00	1,120.00
4,100	Dayton Hudson Corp.	"	62.7050	257,336.50	4,592.00
6,100	Flight Safety International, Inc.	"	43.2655	264,285.30	976.00
12,400	Foster Wheeler, Inc.	"	21.4520	266,748.80	5,456.00
2,500	Liz Claiborne, Inc.	"	24.7500	61,875.00	425.00
2,400	Lotus Development Corp.	"	26.5000	63,600.00	0.00
1,600	Microsoft Corp.	"	63.1119	100,979.12	0.00
800	Transco Energy Co.	"	48.4460	38,804.80	1,088.00
1,700	Wheelabrator Technologies, Inc.	"	39.0960	66,565.20	0.00
328	Banc One Corp.*	OSU	35.7029	11,710.56	341.12
300	Bob Evans Farms, Inc.*	"	15.1875	4,556.25	72.00
80	Worthington Industries, Inc.*	"	24.6250	1,970.00	35.20
10,500	Intel Corp.	Siebel	30.5000	<u>320,250.00</u>	<u>0.00</u>
				<u>\$2,903,665.13</u>	<u>\$37,377.32</u>

* Gift.

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
4,200	Carter Wallace, Inc.	Chicago	49.8750	\$ 209,195.01	\$ 38,831.46
8,700	Flowers Industries, Inc.	"	19.5000	169,078.84	10,013.34
3,537	Marion Laboratories, Inc.	"	38.0000	134,406.00	68,741.59
6,200	Masco Corp.	"	28.5000	176,291.11	110,567.40
3,900	Mercantile Stores, Inc.	"	49.1250	191,327.60	44,428.65
6,300	Ryder Systems, Inc.	"	29.0390	182,530.10	86,250.81
4,200	Scott Paper Co.	"	50.6250	212,344.91	62,971.91
3,700	Sealed Air Corp.	"	17.2500	63,582.37	57,391.90
5,400	Universal Corp.	"	38.2500	206,192.11	40,391.88
3,100	Westinghouse Electric Corp.	"	68.2120	211,248.65	53,328.45
2,800	Albertson's, Inc.	Nicholas- Applegate	53.3750	149,277.01	69,074.35
1,500	Home Depot, Inc.	"	34.5000	51,658.27	26,016.37
5,300	Motorola, Inc.	"	57.8750	306,409.27	1,180.77
2,200	Philip Morris Companies, Inc.	"	160.0438	351,952.71	138,065.78
5,400	US Air Group, Inc.	"	48.3148	260,566.98	45,367.38
820	Vivra, Inc.	"	28.3750	23,217.52	2,817.31
7	Ford Motor Co.*	OSU	52.5000	390.73	10.11
1,733	Putnam High Income Government Trust Fund*	"	12.3308	21,369.31	(411.14)
4,000	AMR Corp.	Siebel	92.5625	369,957.64	180,376.57
16,500	Consolidated Rail Corp.	"	45.0559	<u>742,242.71</u>	<u>149,826.71</u>
				<u>\$4,033,238.85</u>	<u>\$1,185,241.60</u>

* Gift.

**The Ohio State University
Bonds/Notes**

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
685,061	GMAC FHA Project #195 7.430% 11/01/25	Boatmen's	8.6679	8.7352	85.7188	\$ 587,225.49
925,000	U.S. Treasury Bond 8.125% 08/15/19	Cambridge	8.1301	8.1300	99.9375	924,421.88
5,000,000	U.S. Treasury Bond 10.750% 08/15/05	STW	8.8694	8.3254	121.2031	<u>6,060,156.45</u>
						<u>\$7,571,803.82</u>

The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
5,000,000	U.S. Treasury Bond 10.375% 11/15/12	STW	118.7344	\$5,936,718.75	\$403,100.32
				<u>\$5,936,718.75</u>	<u>\$403,100.32</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
Building and 3.295 acres at 930 Kinnear Road	7.97X	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
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
46.984 acres of land in Delaware County	.55	1971	100,793	641,000	06/89
Hangar at Don Scott Field (Loan)	.00	1973	29,999 (1)	29,999	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	74,388 (1)	74,388	N/A
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	283,000	06/89
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,896,000	06/89
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,367,000	06/89
76.143 acres of land, 3253 West Granville Road	.03	1968	310,538	6,853,000	06/89
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,749,000	06/89
32 acres of land, 3371 West Granville Road	.19	1986	2,078,666	2,880,000	06/89
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,080,000	06/89
8.557 acres of land, 3505 West Granville Road	.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
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	1,155,000	08/89
17.92 acres of land on Elterman Road	.00	1978	25,152	725,000	05/88
Veterans Administration Clinic	8.08	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,335,328</u>	<u>\$39,704,387</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261

MEMORANDUM

Subject: Proxy Solicitations
Date: September 30, 1989
From: James L. Nichols, Treasurer *James L. Nichols*
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

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APPENDIX XVII

1989 FARM SCIENCE REVIEW

**Presented to the Agricultural Affairs Committee
(See page 312)**

1989 Farm Science Review
Board of Trustees Agricultural Affairs Committee
October 6, 1989

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 3% 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)**

Progress Report
Piketon Research and Extension Center
Board of Trustees Agricultural Affairs Committee
October, 6, 1989

Name

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.

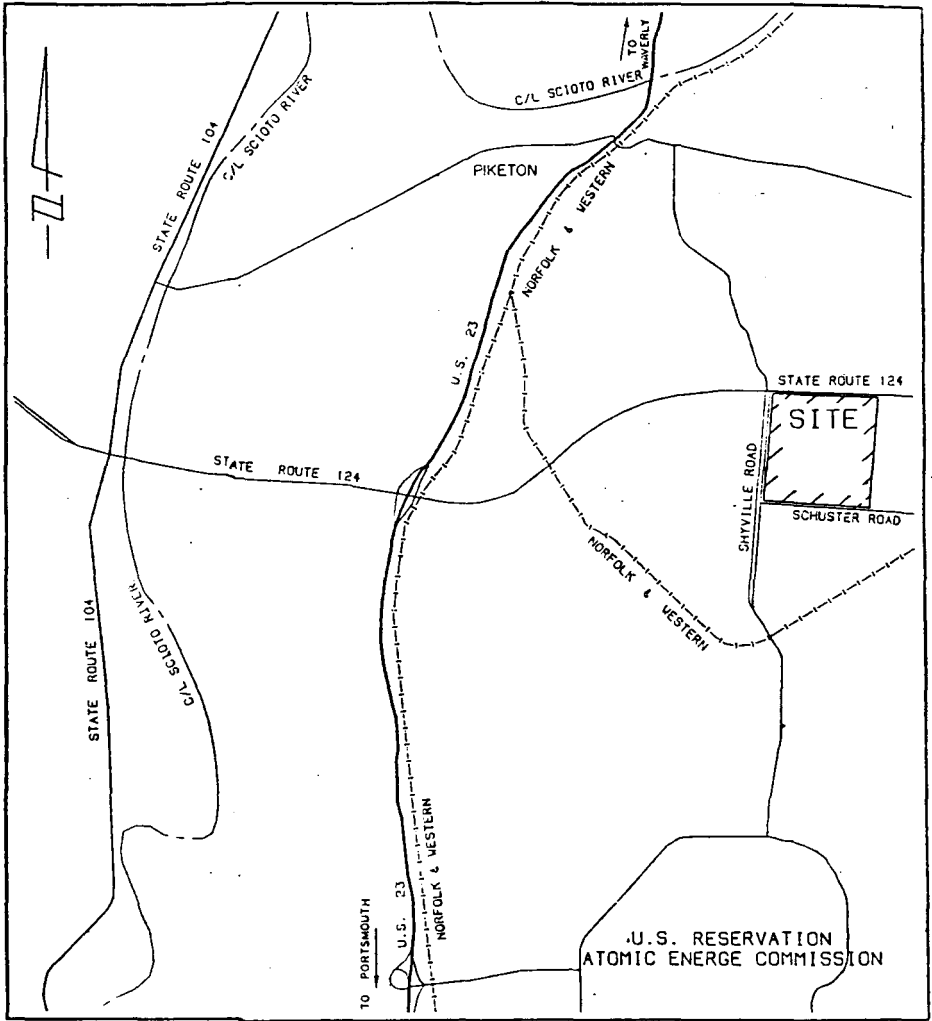
The research and extension programs will be conducted by the Center staff working on specific projects under the direction of Ohio State University faculty members. A portion of the operating funds will be available for special, short-term applied type of projects.

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

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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

	<u>1987-88</u>	Donors July through June <u>1988-89</u>	<u>% Change</u>	<u>1987-88</u>	Dollars July through June <u>1988-89</u>	<u>% Change</u>
Alumni	51,542	49,043	(5)	\$10,766,495	\$15,818,050	47
Non-Alumni	25,408	25,289	1	7,843,080	6,645,769	(16)
Corporations	2,420	2,774	15	24,101,224	27,498,150	14
Corporate Foundations	279	288	4	1,945,716	2,282,256	18
Private Foundations	161	170	6	11,009,701	5,956,628	(46)
Other	<u>1,233</u>	<u>1,292</u>	5	<u>8,240,989</u>	<u>10,375,779</u>	26
TOTAL	81,043	78,856	(3)	\$63,907,205	\$68,576,632	8

The Ohio State University Campaign
 Progress Report
 @ June 30, 1989

	<u>*Campaign Exectancies</u>	<u>Current Year Campaign Receipts (Jul 88 -June 89)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1988</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$71,442,219	\$15,818,050	\$38,283,424	\$125,543,693	\$122,500,000	102
Friends	36,801,753	6,645,769	28,643,850	72,091,372	70,000,000	103
**Corporations	13,800,664	40,156,185	103,403,568	157,360,417	122,500,000	129
Foundations	<u>2,963,625</u>	<u>5,956,628</u>	<u>19,935,229</u>	<u>28,855,482</u>	<u>35,000,000</u>	<u>85</u>
Totals	\$125,008,261	\$68,576,632	\$190,266,071	\$383,850,964	\$350,000,000	110

*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-August
 1988-89 compared to 1989-90

GIFT RECEIPTS BY DONOR TYPE

	Donors			1988-89	Dollars		
	<u>July</u> <u>1988-89</u>	<u>through</u> <u>1989-90</u>	<u>August</u> <u>% Change</u>		<u>July</u> <u>1988-89</u>	<u>through</u> <u>1989-90</u>	<u>August</u> <u>% Change</u>
Alumni	7,133	5,085	(29)	\$3,695,167	\$804,756	(79)	
Non-Alumni	5,661	4,182	(27)	736,265	390,245	(47)	
Corporations	429	495	16	908,054	1,628,118	80	
Corporate Foundations	94	100	7	158,577	269,270	71	
Private Foundations	30	29	(4)	452,042	351,404	(23)	
Other	<u>182</u>	<u>142</u>	22	<u>1,003,624</u>	<u>692,017</u>	(31)	
TOTAL	13,529	10,033	(26)	\$6,953,729	\$4,135,810	(41)	

The Ohio State University Campaign
 Progress Report
 @ August 31, 1989

	<u>*Campaign Exectancies</u>	<u>Current Year Campaign Receipts (Jul 88-Aug 89)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1989</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$76,358,162	\$804,756	\$54,101,474	\$131,264,392	\$122,500,000	107
Friends	45,150,811	390,245	35,289,619	80,830,675	70,000,000	116
**Corporations	13,782,765	2,589,405	143,559,753	159,931,923	122,500,000	131
Foundations	<u>2,957,625</u>	<u>351,404</u>	<u>25,891,857</u>	<u>29,200,886</u>	<u>35,000,000</u>	84
Totals	\$138,249,363	\$4,135,810	\$258,842,703	\$401,227,876	\$350,000,000	115

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.

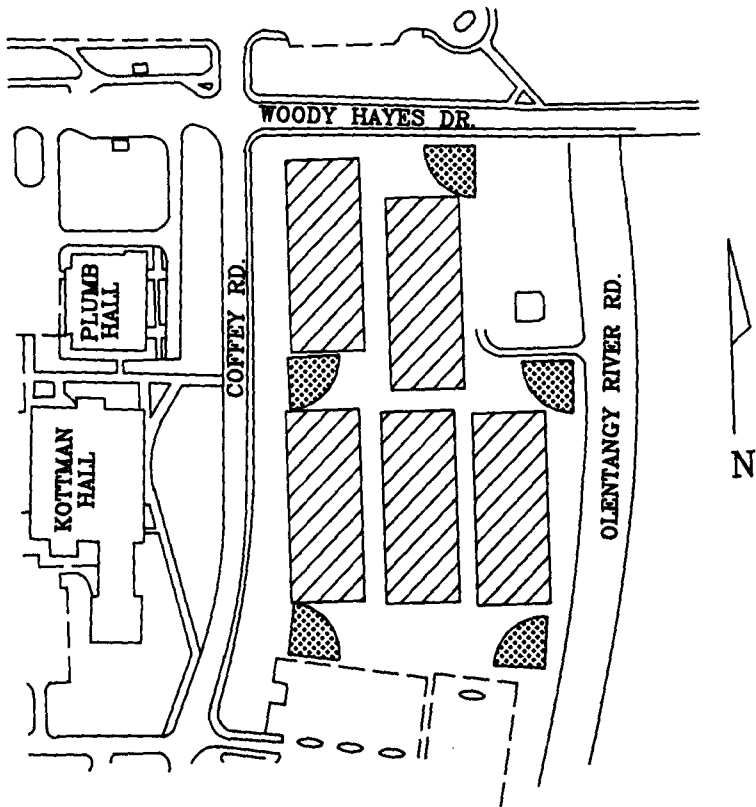
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APPENDIX XX

COFFEY ROAD INTRAMURAL FIELDS

**Adopted by the Board of Trustees October 6, 1989
(See page 338)**

COFFEY ROAD INTRAMURAL FIELDS



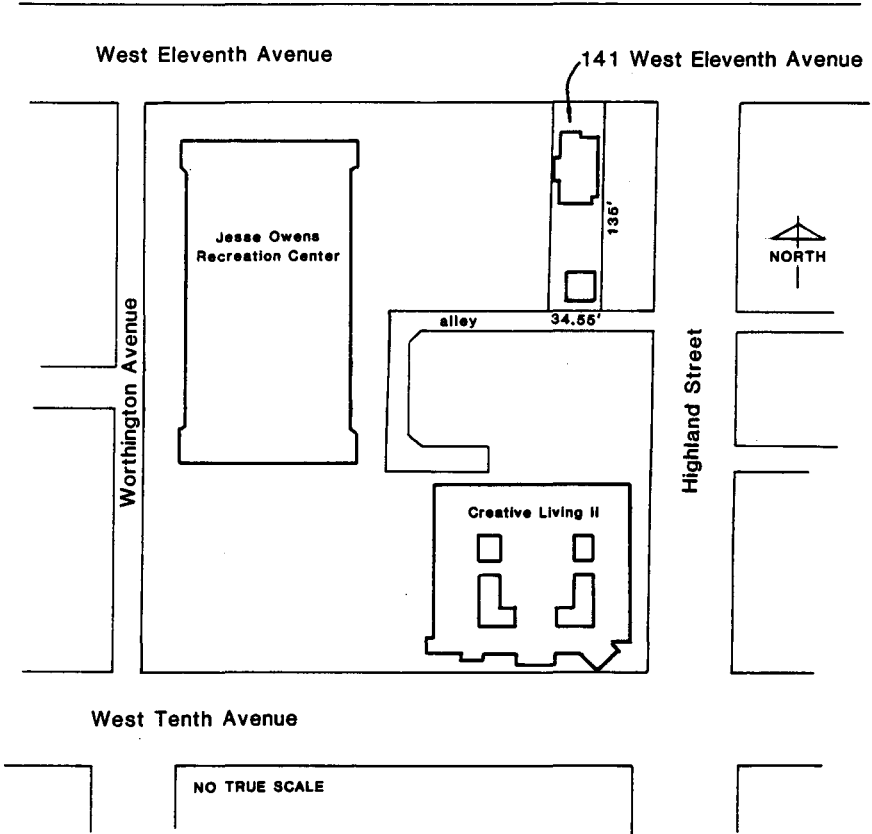
OFFICE OF BUSINESS AND ADMINISTRATION
OCTOBER 6, 1989

· 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 OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FIFTY-FIFTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, November 3, 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.

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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.

ENROLLMENT REPORT - AUTUMN QUARTER 1989 (contd)

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 problems 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.)

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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 patients 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 than 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.)

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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

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 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.

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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.

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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
School of Public Policy and Management

Michael E. Mangino*
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.

PERSONNEL ACTIONS (contd)

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.

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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 1978, and his M.D. degree from Vanderbilt 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

RESOLUTIONS IN MEMORIAM (contd)

Neal A. Smith (contd)

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.

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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 Riffie 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

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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 --

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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

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 benefitted 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.

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Deems: (contd)

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?

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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.

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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.

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.

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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.

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.)

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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.

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

SUMMARY FOR SEPTEMBER 1989

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	113	\$10,738,286.63
Engineering Experiment Station	37	\$ 466,683.00
Total	150	\$11,204,969.63
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. Borrer 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

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

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Codes, ElectroScience Laboratory, Department of Electrical Engineering (E. H. Newman and R. G. Rojas), 1 October 1989 through 30 June 1990. (Project 767820 - New)

\$140,350.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., U.S. AID Program Support Grant for Fiscal Years 1986-1991, Office of International Programs in Agriculture (D. O. Hansen), 29 August 1989 through 31 August 1990. (Project 765750 - Continuation)

\$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)

\$113,181.00 - 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 1989 through 31 January 1991. (Project 765661 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

\$88,124.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Retention-Based Counseling Program, Agricultural Technical Institute - Administrative Support (D. D. Garrison), 1 September 1989 through 31 August 1990. (Project 767032 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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 761012 - 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)

\$72,000.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Dynamical Properties of Josephson Junctions Arrays, Department of Physics (C. A. Ebner and C. Jayaprakash), 15 September 1989 through 14 September 1991. (Project 767834 - New)

\$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)

\$58,000.00 - Department of Energy, Argonne, Illinois, High Energy Physics, Department of Physics (High Energy Physics Group: S. Durkin, H. P. Kagan, R. D. Kass, K. D. Lane, T. Y. Ling, A. J. Niemi, W. F. Palmer, S. S. Pinsky, N. W. Reay, K. Reibel, T. A. Romanowski, J. Shigemitsu, R. A. Sidwell, N. R. Stanton, G. Steigman, K. Tanaka, and W. W. Wada), 1 January 1989 through 31 December 1989. (Project 762116 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$51,174.00 - 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 1989 through 31 October 1990. (Project 766415 - Continuation)

\$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 Petunia: 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 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Inter-national Conference: Informal Financial Markets for Low-Income Countries, Department of Agricultural Economics and Rural Sociology (D. W. Adams), 31 August 1989 through 20 February 1990. (Project 767830 - 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)

\$44,781.00 - Department of Energy, Argonne, Illinois, Theoretical Studies of Dynamics and Correlations in Heavy Electron Materials, Department of Physics (D. L. Cox), 15 August 1989 through 14 August 1990. (Project 766287 - Continuation)

\$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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

\$40,000.00 - 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), 22 September 1989 through 30 September 1989. (Project 767829 - New)

\$38,121.00 - 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)

\$37,906.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Laser Diagnostics of RF Hydrogen PLASMA Reactors: Application to the Processing of III-V Materials, Department of Chemistry (T. A. Miller), 1 July 1989 through 30 June 1992. (Project 767838 - 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)

\$24,639.00 - Department of Health and Human Services, Office of Human Development Services, Administration for Children, Youth, and Families, Chicago, Illinois, Child Welfare Traineeship Program, College of Social Work (N. J. Rindfleisch), 1 July 1989 through 30 June 1990. (Project 767062 - Continuation)

\$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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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. Wewers), 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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. Butter 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 (R. 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. Valco), 1 August 1989 through 31 December 1989. (Project 767802 - New)

\$7,856.00 - America-Mideast Educational and Training Services, Inc., Washington, D.C., International Short-Term In-Residence Program -- Cyprus-America Scholarship Program, Center on Education and Training for Employment (R. D. Ryan), 1 August 1989 through 31 August 1989. (Project 767714 - New)

\$7,547.40 - Ethicon, Inc., Somerville, New Jersey, An Open Label Extension of the Evaluation of 2% Ketanserin Ointment for the Treatment of Lower Extremity Diabetic Ulcers, Department of Internal Medicine (S. Cataland), 1 September 1989 through 1 September 1990. (Project 767776 - New)

\$3,200.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, Weld Imaging System for Control of Laser and Electron Beam Welding, Department of Welding Engineering (R. W. Richardson), 28 August 1989 through 30 September 1989. (Project 766726 - Continuation)

\$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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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. Bossler), 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)

\$304,371.00 - 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 New)

\$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)

\$53,902.00 - Smokeless Tobacco Research Council, Inc., New York, New York, Effect of Smokeless Tobacco on the Postnatal Development of the Mouse and Rat, Oral Biology (R. B. Paulson), 1 January 1990 through 31 December 1990. (Project 767102 - New)

\$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)

\$30,338.00 - The Petroleum Research Fund, Washington, D.C., Geologic Evolution of the Ordovician Sebree Trough, A Major Subsurface Feature in the North American Midcontinent Region, Department of Geology and Mineralogy (S. Bergstrom), 1 September 1989 through 31 August 1991. (Project 767805 - New)

\$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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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 Belmouth," under the direction of the department of Aeronautical and Astronautical Engineering for the period December 1, 1986 through October 2, 1989. (312895, Ext. 1)

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.

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.

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.

**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.

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**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:

General Contract	E. J. Meyer & Sons, Ottawa, Ohio
Amount:	\$155,833.00 *
Estimate:	\$198,231.50 *
Contingency Allowance:	\$ 19,508.58
Total Project Cost:	\$190,000.00 *

* 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

**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.

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**Report of Award of Contracts and
Establishment of Contingency Funds**

Background

See Appendix XXIV 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.

**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
Amount:	\$ 53,200.00 +
Estimate:	\$ 48,500.00
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
Amount:	\$2,133,400.00
Estimate:	\$2,205,400.00
Plumbing Contract:	A. J. Stockmeister, Inc., Jackson, Ohio
Amount:	\$ 295,694.00 +
Estimate:	\$ 172,200.00

+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.

**Report of Award of Contracts and
Establishment of Contingency Funds (contd)**

Background (contd)

Pikeeton 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.

**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:	\$1,916,386.40

**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.

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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.

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.

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**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.

**MANAGEMENT OF THE J. LEONARD CAMERA CENTER
FOR INDUSTRIAL AND VOCATIONAL REHABILITATION (contd)**

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.

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**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.

November 3, 1989 meeting, Board of Trustees

**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.)

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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

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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

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Enrollment by Full-time/Part-time, Level, and Age Range, Total University	Table 16

THE OHIO STATE UNIVERSITY
OFFICE OF THE UNIVERSITY REGISTRAR

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

FOURTEENTH DAY ENROLLMENT

TABLE 1

CAMPUS	AU '88		AU '89		Change	
	Number	Number /Total	Number	Number /Total	Number	Current /Past
Columbus						
Men	28,649	91.8%	27,926	91.2%	-723	-2.5%
Women	25,020	88.3%	24,969	88.0%	-51	-0.2%
Total	53,669	90.1%	52,895	89.7%	-774	-1.4%
Lima						
Men	497	1.6%	551	1.8%	54	10.9%
Women	779	2.7%	762	2.7%	-17	-2.2%
Total	1,276	2.1%	1,313	2.2%	37	2.9%
Mansfield						
Men	480	1.5%	504	1.6%	24	5.0%
Women	797	2.8%	832	2.9%	35	4.4%
Total	1,277	2.1%	1,336	2.3%	59	4.6%
Marion						
Men	442	1.4%	459	1.5%	17	3.8%
Women	695	2.5%	702	2.5%	7	1.0%
Total	1,137	1.9%	1,161	2.0%	24	2.1%
Newark						
Men	649	2.1%	661	2.2%	12	1.8%
Women	854	3.0%	921	3.2%	67	7.8%
Total	1,503	2.5%	1,582	2.7%	79	5.3%
Wooster						
Men	491	1.6%	511	1.7%	20	4.1%
Women	194	0.7%	196	0.7%	2	1.0%
Total	685	1.2%	707	1.2%	22	3.2%
TOTAL						
Men	31,208	52.4%	30,612	51.9%	-596	-1.9%
Women	28,339	47.6%	28,382	48.1%	43	0.2%
GRAND TOTAL	59,547		58,994		-553	-0.9%

ENROLLMENT BY SOURCE OF STUDENT
AUTUMN QUARTER 1989 VERSUS AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 2

	NFQF	New Transfers	Continuing	Former	Total	
UNDERGRADUATE						
Columbus						
AU '88	7,098	1,715	29,638	2,087	40,538	
AU '89	6,148	1,757	30,179	2,038	40,122	
Change	-950	42	541	-49	-416	
% Change	-13.4%	2.4%	1.8%	-2.3%	-1.0%	
Non-Columbus						
AU '88	1,624	631	2,847	486	5,588	
AU '89	2,039	543	2,723	506	5,811	
Change	415	-88	-124	20	223	
% Change	25.6%	-13.9%	-4.4%	4.1%	4.0%	
Total Undergraduate						
AU '88	8,722	2,346	32,485	2,573	46,126	
AU '89	8,187	2,300	32,902	2,544	45,933	
Change	-535	-46	417	-29	-193	
% Change	-6.1%	-2.0%	1.3%	-1.1%	-0.4%	
POSTBACCALAUREATE PROFESSIONAL						
		New to OSU	New from OSU	Continuing	Former	Total
Columbus						
AU '88		450	293	1,984	16	2,743
AU '89		461	254	1,978	15	2,708
Change		11	-39	-6	-1	-35
% Change		2.4%	-13.3%	-0.3%	-6.3%	-1.3%
GRADUATE						
		New to OSU	New from OSU	Continuing	Former	Total
Columbus						
AU '88		1,630	847	7,084	827	10,388
AU '89		1,673	744	6,972	676	10,065
Change		43	-103	-112	-151	-323
% Change		2.6%	-12.2%	-1.6%	-18.3%	-3.1%
Non-Columbus						
AU '88		24	59	117	90	290
AU '89		33	61	109	85	288
Change		9	2	-8	-5	-2
% Change		37.5%	3.4%	-6.8%	-5.6%	-0.7%
Total Graduate						
AU '88		1,654	906	7,201	917	10,678
AU '89		1,706	805	7,081	761	10,353
Change		52	-101	-120	-156	-325
% Change		3.1%	-11.1%	-1.7%	-17.0%	-3.0%

ENROLLMENT BY COLLEGE AND SCHOOL
COLUMBUS CAMPUS

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 3

College School	AU '88	AU '89	Change Number	Change Percent
Agriculture				
Agriculture	1,227	1,219	-8	-0.7%
Natural Resources	243	292	49	20.2%
Arts and Sciences				
Arts and Sciences, General*	1,509	1,813	304	20.1%
Arts and Sciences, Unknown**	71	107	36	50.7%
The Arts	714	719	5	0.7%
Biological Sciences	855	819	-36	-4.2%
Humanities	1,167	1,356	189	16.2%
Journalism	1,240	852	-388	-31.3%
Mathematical and Physical Sciences	598	591	-7	-1.2%
Social and Behavioral Sciences	2,747	3,138	391	14.2%
Business	3,298	3,207	-91	-2.8%
Continuing Education	2,157	1,876	-281	-13.0%
Dentistry				
Dentistry	447	440	-7	-1.6%
Dental Hygiene	84	95	11	13.1%
Education	1,579	1,507	-72	-4.6%
Engineering				
Engineering	4,179	3,956	-223	-5.3%
Architecture	529	495	-34	-6.4%
Graduate School	10,388	10,065	-323	-3.1%
Human Ecology	1,105	1,074	-31	-2.8%
Law	635	627	-8	-1.3%
Medicine				
Medicine	907	887	-20	-2.2%
Allied Medical Professions	589	595	6	1.0%
Nursing	504	499	-5	-1.0%
Optometry	234	231	-3	-1.3%
Pharmacy				
Doctor of Pharmacy	13	17	4	30.8%
Pharmacy	469	475	6	1.3%
Social Work	166	172	6	3.6%
University College	15,508	15,265	-243	-1.6%
Veterinary Medicine	507	506	-1	-0.2%
TOTAL COLUMBUS ENROLLMENT	53,669	52,895	-774	-1.4%

*International Studies, etc.

**Declared major not offered in Arts and Sciences

ENROLLMENT BY CURRICULUM, COLUMBUS CAMPUS
AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 4

Curriculum	University College (UVC) Enrollment by Curricular Academic Program (CAP)		Degree-Granting Program Enrollment		Combined Curriculum Enrollment		Change	
	AU '88	AU '89	AU '88	AU '89	AU '88	AU '89	Number	Percent
UNDERGRADUATE								
Agriculture								
Agriculture	72	39	1,227	1,219	1,299	1,258	-41	-3.2
Natural Resources	80	111	243	292	323	403	80	24.8
Arts and Sciences								
Arts and Sciences, General	1,223	2,183	1,509	1,813	2,732	3,996	1,264	46.3
Arts and Sciences, Unknown	0	0	71	107	71	107	36	50.7
The Arts	465	419	714	719	1,179	1,138	-41	-3.5
Biological Sciences	186	27	855	819	1,041	846	-195	-18.7
Humanities	85	11	1,167	1,356	1,252	1,367	115	9.2
Journalism	113	32	1,240	852	1,353	884	-469	-34.7
Mathematical and Physical Sciences	96	8	598	591	694	599	-95	-13.7
Social and Behavioral Sciences	865	161	2,747	3,138	3,612	3,299	-313	-8.7
Business	3,361	3,718	3,298	3,207	6,659	6,925	266	4.0
Continuing Education	3	0	2,157	1,876	2,160	1,876	-284	-13.1
Dentistry								
Dental Hygiene	41	22	84	95	125	117	-8	-6.4
Education	1,442	1,364	1,579	1,507	3,021	2,871	-150	-5.0
Engineering								
Engineering	1,237	1,145	4,179	3,956	5,416	5,101	-315	-5.8
Architecture	387	452	529	495	916	947	31	3.4
Human Ecology	338	407	1,105	1,074	1,443	1,481	38	2.6
Medicine								
Allied Medical Professions	734	724	589	595	1,323	1,319	-4	-0.3
Nursing	236	272	504	499	740	771	31	4.2
Pharmacy	281	315	469	475	750	790	40	5.3
Social Work	135	116	166	172	301	288	-13	-4.3
Preprofessional Curricula								
Pre-Dentistry	74	84	n/a	n/a	74	84	10	13.5
Pre-Medicine	301	536	n/a	n/a	301	536	235	78.1
Pre-Optometry	79	105	n/a	n/a	79	105	26	32.9
Pre-Veterinary Medicine	136	166	n/a	n/a	136	166	30	22.1
Undecided	3,538	2,848	n/a	n/a	3,538	2,848	-690	-19.5
TOTAL UNDERGRADUATE	15,508	15,265	25,030	24,857	40,538	40,122	-416	-1.0
PROFESSIONAL								
Dentistry			447	440	447	440	-7	-1.6
Law			635	627	635	627	-8	-1.3
Medicine			907	887	907	887	-20	-2.2
Optometry			234	231	234	231	-3	-1.3
Pharmacy, Doctor of			13	17	13	17	4	30.8
Veterinary Medicine			507	506	507	506	-1	-0.2
TOTAL POSTBACCALAUREATE PROFESSIONAL			2,743	2,708	2,743	2,708	-35	-1.3
GRADUATE			10,388	10,065	10,388	10,065	-323	-3.1
TOTAL	15,508	15,265	38,161	37,630	53,669	52,895	-774	-1.4

HEADCOUNT, CREDITS, AND CREDITS PER STUDENT BY LEVEL
AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 5

UNDERGRADUATE	FULL-TIME*		PART-TIME		TOTAL		Credits per Student
	Head-count	Credits	Head-count	Credits	Head-count	Credits	
Columbus							
AU '88	33,721	516,961	6,817	45,440	40,538	562,401	13.87
AU '89	33,816	518,484	6,306	41,866	40,122	560,350	13.97
Change	95	1,523	-511	-3,574	-416	-2,051	0.09
% Change	0.3%	0.3%	-7.5%	-7.9%	-1.0%	-0.4%	0.7%
Not-Columbus							
AU '88	3,831	58,362	1,757	11,598	5,588	69,960	12.52
AU '89	4,136	63,197	1,675	11,310	5,811	74,507	12.82
Change	305	4,835	-82	-288	223	4,547	0.30
% Change	8.0%	8.3%	-4.7%	-2.5%	4.0%	6.5%	2.4%
Total Undergraduate							
AU '88	37,552	575,323	8,574	57,038	46,126	632,361	13.71
AU '89	37,952	581,681	7,981	53,176	45,933	634,857	13.82
Change	400	6,358	-593	-3,862	-193	2,496	0.11
% Change	1.1%	1.1%	-6.9%	-6.8%	-0.4%	0.4%	0.8%

Postbaccalaureate Professional	FULL-TIME*		PART-TIME		TOTAL		Credits per Student
	Head-count	Credits	Head-count	Credits	Head-count	Credits	
Columbus							
AU '88	2,672	53,449	71	588	2,743	54,037	19.70
AU '89	2,670	52,889	38	186	2,708	53,075	19.60
Change	-2	-560	-33	-402	-35	-962	-0.10
% Change	-0.1%	-1.0%	-46.5%	-68.4%	-1.3%	-1.8%	-0.5%

GRADUATE	FULL-TIME*		8 or 9 CREDITS		< 8 CREDITS		TOTAL		Credits per Student
	Head-count	Credits	Head-count	Credits	Head-count	Credits	Head-count	Credits	
Columbus									
AU '88	4,910	65,379	988	8,320	4,490	20,005	10,388	93,704	9.02
AU '89	4,987	65,916	956	8,049	4,122	18,216	10,065	92,181	9.16
Change	77	537	-32	-271	-368	-1,789	-323	-1,523	0.14
% Change	1.6%	0.8%	-3.2%	-3.3%	-8.2%	-8.9%	-3.1%	-1.6%	1.5%
Not-Columbus									
AU '88	24	303	3	26	263	751	290	1,080	3.72
AU '89	24	347	11	96	253	760	288	1,203	4.18
Change	0	44	8	70	-10	9	-2	123	0.45
% Change	0.0%	14.5%	266.7%	269.2%	-3.8%	1.2%	-0.7%	11.4%	12.2%
Total Graduate									
AU '88	4,934	65,682	991	8,346	4,753	20,756	10,678	94,784	8.88
AU '89	5,011	66,263	967	8,145	4,375	18,976	10,353	93,384	9.02
Change	77	581	-24	-201	-378	-1,780	-325	-1,400	0.14
% Change	1.6%	0.9%	-2.4%	-2.4%	-8.0%	-8.6%	-3.0%	-1.5%	1.6%

* 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.

ENROLLMENT BY COUNTY AT THE TIME OF APPLICATION*
TOTAL UNIVERSITY

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 6

Ohio County	AU '88	AU '89	% Change	Ohio County	AU '88	AU '89	% Change
Adams	44	50	13.6%	Marion	994	939	-5.5%
Allen	1,178	1,119	-5.0%	Medina	480	471	-1.9%
Ashland	344	327	-4.9%	Meigs	23	26	13.0%
Ashtabula	221	213	-3.6%	Mercer	165	170	3.0%
Athens	98	85	-13.3%	Miami	295	286	-3.1%
Auglaize	340	314	-7.6%	Monroe	67	77	14.9%
Belmont	324	305	-5.9%	Montgomery	1,660	1,619	-2.5%
Brown	58	55	-5.2%	Morgan	41	43	4.9%
Butler	610	580	-4.9%	Morrow	267	273	2.2%
Carroll	62	60	-3.2%	Muskingum	403	398	-1.2%
Champaign	170	156	-8.2%	Noble	27	31	14.8%
Clark	463	439	-5.2%	Ottawa	132	132	0.0%
Clermont	147	164	11.6%	Paulding	49	60	22.4%
Clinton	92	91	-1.1%	Perry	127	125	-1.6%
Columbiana	307	292	-4.9%	Pickaway	315	276	-12.4%
Coshocton	239	246	2.9%	Pike	67	49	-26.9%
Crawford	528	531	0.6%	Portage	251	222	-11.6%
Cuyahoga	3,903	3,769	-3.4%	Preble	72	77	6.9%
Darke	150	129	-14.0%	Putnam	286	329	15.0%
Defiance	98	117	19.4%	Richland	1,498	1,458	-2.7%
Delaware	940	916	-2.6%	Ross	203	196	-3.4%
Erie	332	304	-8.4%	Sandusky	191	197	3.1%
Fairfield	822	865	5.2%	Scioto	232	232	0.0%
Fayette	108	99	-8.3%	Seneca	255	254	-0.4%
Franklin	15,373	14,643	-4.7%	Shelby	204	196	-3.9%
Fulton	99	100	1.0%	Stark	1,162	1,158	-0.3%
Gallia	78	85	9.0%	Summit	1,393	1,376	-1.2%
Geauga	367	371	1.1%	Traubull	714	647	-9.4%
Greene	501	488	-2.6%	Tuscarawas	256	258	0.8%
Guernsey	148	140	-5.4%	Union	326	334	2.5%
Hamilton	1,631	1,626	-0.3%	Van Wert	155	161	3.9%
Hancock	342	313	-8.5%	Vinton	11	9	-18.2%
Hardin	233	202	-13.3%	Warren	231	230	-0.4%
Harrison	53	47	-11.3%	Washington	247	257	4.0%
Henry	96	99	3.1%	Wayne	380	368	-3.2%
Highland	69	63	-8.7%	Williams	105	110	4.8%
Hocking	66	83	25.8%	Wood	304	313	3.0%
Holmes	84	80	-4.8%	Wyandot	153	166	8.5%
Huron	285	287	0.7%	Total Ohio Counties	51,200	49,809	-2.7%
Jackson	64	70	9.4%	Other States and D.C.	5,299	5,772	8.9%
Jefferson	385	422	9.6%	U.S. Territories	106	100	-5.7%
Knox	355	326	-8.2%	U.S. Students from			
Lake	752	746	-0.8%	Foreign Countries	148	415	180.4%
Lawrence	105	133	26.7%	Foreign Students	2,794	2,898	3.7%
Licking	1,695	1,721	1.5%	Total Enrolled	59,547	58,994	-0.9%
Logan	238	257	8.0%				
Lorain	834	809	-3.0%				
Lucas	1,024	981	-4.2%				
Madison	298	269	-9.7%				
Mahoning	706	699	-1.0%				

*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.

ENROLLMENT BY COUNTY AT THE TIME OF APPLICATION*
COLUMBUS CAMPUS

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 7

Ohio County	AU '88	AU '89	% Change	Ohio County	AU '88	AU '89	% Change
Adams	44	43	-2.3%	Marion	407	356	-12.5%
Allen	512	489	-4.5%	Medina	456	445	-2.4%
Ashland	208	185	-11.1%	Meigs	21	24	14.3%
Ashtabula	217	201	-7.4%	Mercer	147	153	4.1%
Athens	95	83	-12.6%	Miami	288	281	-2.4%
Auglaize	205	179	-12.7%	Monroe	65	66	1.5%
Belmont	315	300	-4.8%	Montgomery	1,640	1,597	-2.6%
Brown	56	52	-7.1%	Morgan	40	43	7.5%
Butler	602	566	-6.0%	Norow	144	142	-1.4%
Carroll	55	53	-3.6%	Huskingum	340	334	-1.8%
Champaign	167	154	-7.8%	Noble	23	28	21.7%
Clark	457	433	-5.3%	Ottawa	123	130	5.7%
Clermont	146	159	8.9%	Paulding	37	46	24.3%
Clinton	91	88	-3.3%	Perry	88	85	-3.4%
Columbiana	291	277	-4.8%	Pickaway	309	269	-12.9%
Coshocton	152	166	9.2%	Pike	65	49	-24.6%
Crawford	239	252	5.4%	Portage	230	200	-13.0%
Cuyahoga	3,816	3,686	-3.4%	Preble	69	72	4.3%
Darke	144	123	-14.6%	Putnam	146	165	13.0%
Defiance	92	107	16.3%	Richland	710	677	-4.6%
Delaware	783	748	-4.5%	Ross	198	191	-3.5%
Erie	317	291	-8.2%	Sandusky	185	187	1.1%
Fairfield	734	778	6.0%	Scioto	230	231	0.4%
Fayette	106	96	-9.4%	Seneca	238	236	-0.8%
Franklin	15,119	14,340	-5.2%	Shelby	160	157	-1.9%
Fulton	95	97	2.1%	Stark	1,113	1,095	-1.6%
Gallia	77	84	9.1%	Summit	1,344	1,340	-0.3%
Geauga	362	358	-1.1%	Trumbull	698	630	-9.7%
Greece	496	480	-3.2%	Tuscarawas	235	233	-0.9%
Guernsey	138	131	-5.1%	Union	265	259	-2.3%
Hamilton	1,619	1,617	-0.1%	Van Wert	98	94	-4.1%
Hancock	302	283	-6.3%	Vinton	9	8	-11.1%
Hardin	127	104	-18.1%	Warren	223	225	0.9%
Harrison	49	42	-14.3%	Washington	237	250	5.5%
Henry	93	96	3.2%	Wayne	299	288	-3.7%
Highland	67	62	-7.5%	Williams	102	108	5.9%
Hocking	64	80	25.0%	Wood	297	307	3.4%
Holmes	59	57	-3.4%	Wyandot	91	97	6.6%
Huron	199	195	-2.0%	Total Ohio Counties	45,376	43,916	-3.2%
Jackson	60	68	13.3%	Other States and D.C.	5,253	5,696	8.4%
Jefferson	381	411	7.9%	U.S. Territories	106	100	-5.7%
Knox	225	193	-14.2%	U.S. Students from			
Lake	738	732	-0.8%	Foreign Countries	144	296	105.6%
Lawrence	104	132	26.9%	Foreign Students	2,790	2,887	3.5%
Licking	827	892	7.9%	Total Enrolled	53,669	52,895	-1.4%
Logan	176	176	0.0%				
Lorain	794	767	-3.4%				
Lucas	1,001	964	-3.7%				
Madison	292	260	-11.0%				
Mahoning	698	688	-1.4%				

*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.

ENROLLMENT BY STATE AT THE TIME OF APPLICATION*
TOTAL UNIVERSITY

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 8

State or Territory	AU '88	AU '89	Percent Change	State or Territory	AU '88	AU '89	Percent Change
Ohio	51,200	49,809	-2.7%	Arizona	35	41	17.1%
New York	651	712	9.4%	New Hampshire	35	40	14.3%
Pennsylvania	662	683	3.2%	Louisiana	39	39	0.0%
Michigan	385	447	16.1%	Kansas	39	39	0.0%
New Jersey	396	407	2.8%	Utah	23	31	34.8%
Illinois	335	385	14.9%	New Mexico	25	27	8.0%
California	274	309	12.8%	District of Columbia	14	25	78.6%
Florida	209	228	9.1%	Oregon	25	23	-8.0%
Maryland	164	191	16.5%	Hawaii	21	23	9.5%
Texas	180	184	2.2%	Rhode Island	14	21	50.0%
Indiana	164	180	9.8%	Delaware	25	21	-16.0%
West Virginia	162	178	9.9%	Idaho	20	20	0.0%
Virginia	147	171	16.3%	Nevada	17	19	11.8%
Massachusetts	112	135	20.5%	Arkansas	18	19	5.6%
Kentucky	123	130	5.7%	Mississippi	19	18	-5.3%
Wisconsin	104	114	9.6%	Maine	19	17	-10.5%
Connecticut	97	104	7.2%	North Dakota	12	17	41.7%
North Carolina	81	93	14.8%	Montana	11	12	9.1%
Puerto Rico	96	90	-6.3%	Alaska	9	10	11.1%
Missouri	90	79	-12.2%	South Dakota	12	9	-25.0%
Georgia	66	77	16.7%	Wyoming	11	9	-18.2%
Minnesota	60	66	10.0%	Virgin Islands	8	8	0.0%
Tennessee	60	66	10.0%	Vermont	7	5	-28.6%
Colorado	56	65	16.1%	Guam	2	2	0.0%
Washington	50	51	2.0%	Unknown		2	
Nebraska	52	49	-5.8%	TOTAL U.S. STUDENTS	56,605	55,681	-1.6%
Alabama	40	49	22.5%	Ohio Students	51,200	49,809	-2.7%
Oklahoma	40	45	12.5%	Non-Ohio U.S. Students	5,405	5,872	8.6%
Iowa	39	44	12.8%				
South Carolina	50	43	-14.0%				

*Determined by domestic student's permanent address at time of application for admission.

ENROLLMENT BY STATE AT THE TIME OF APPLICATION*
COLUMBUS CAMPUS

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 9

State or Territory	AU '88	AU '89	Percent Change	State or Territory	AU '88	AU '89	Percent Change
Ohio	45,376	43,916	-3.2%	Arizona	35	41	17.1%
New York	648	709	9.4%	Louisiana	37	39	5.4%
Pennsylvania	651	669	2.8%	Kansas	37	39	5.4%
Michigan	381	440	15.5%	New Hampshire	35	39	11.4%
New Jersey	393	402	2.3%	Utah	22	31	40.9%
Illinois	332	382	15.1%	New Mexico	25	26	4.0%
California	274	304	10.9%	District of Columbia	14	25	78.6%
Florida	207	225	8.7%	Oregon	25	23	-8.0%
Maryland	164	191	16.5%	Hawaii	20	23	15.0%
Texas	179	179	0.0%	Rhode Island	14	20	42.9%
Indiana	162	179	10.5%	Idaho	20	20	0.0%
West Virginia	158	174	10.1%	Delaware	24	20	-16.7%
Virginia	146	168	15.1%	Nevada	17	18	5.9%
Massachusetts	112	134	19.6%	Mississippi	19	18	-5.3%
Kentucky	121	126	4.1%	Maine	19	17	-10.5%
Wisconsin	103	113	9.7%	Arkansas	18	17	-5.6%
Connecticut	97	102	5.2%	North Dakota	12	16	33.3%
North Carolina	81	91	12.3%	Montana	11	12	9.1%
Puerto Rico	96	90	-6.3%	Alaska	9	10	11.1%
Missouri	90	79	-12.2%	Wyoming	11	9	-18.2%
Georgia	66	76	15.2%	South Dakota	12	9	-25.0%
Minnesota	60	65	8.3%	Virgin Islands	8	8	0.0%
Colorado	56	65	16.1%	Vermont	7	5	-28.6%
Tennessee	60	64	6.7%	Guam	2	2	0.0%
Washington	50	51	2.0%	Unknown		2	
Nebraska	52	49	-5.8%	TOTAL U.S. STUDENTS	50,735	49,712	-2.0%
Alabama	39	49	25.6%	Ohio Students	45,376	43,916	-3.2%
Iowa	39	44	12.8%	Non-Ohio U.S. Students	5,359	5,796	8.2%
Oklahoma	40	44	10.0%				
South Carolina	49	43	-12.2%				

*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 10

Country	Autumn 1988	Autumn 1989	Percent Change	Country	Autumn 1988	Autumn 1989
REPUBLIC OF CHINA	473	466	-1.5%	KENYA	5	5
REPUBLIC OF KOREA	337	356	5.6%	ZAIRE	6	5
PEOPLE'S REPUBLIC OF CHINA	263	342	30.0%	BURMA	7	5
INDIA	264	294	11.4%	KUWAIT	4	5
JAPAN	77	104	35.1%	NEPAL	2	4
INDONESIA	113	103	-8.8%	TRINIDAD & TOBAGO	6	4
MALAYSIA	98	98	0.0%	REPUBLIC OF SOUTH AFRICA	4	4
HONG KONG	73	88	20.5%	NORWAY	4	4
CANADA	64	73	14.1%	PANAMA	6	4
GREECE	43	46	7.0%	SWAZILAND	5	4
THAILAND	54	46	-14.8%	BAHRAIN	2	4
IRAN	48	44	-8.3%	SOUTH AFRICA	4	4
TURKEY	36	43	19.4%	SWITZERLAND	1	3
PAKISTAN	35	36	2.9%	PERU	4	3
ENGLAND	40	33	-17.5%	SWEDEN	3	3
SINGAPORE	26	32	23.1%	SUDAN	3	3
JORDAN	31	32	3.2%	BELGIUM	2	3
FRANCE	27	32	18.5%	IVORY COAST	2	3
EGYPT	31	30	-3.2%	GUATEMALA	4	3
LEBANON	35	29	-17.1%	CAMEROON	3	3
PHILIPPINES	37	27	-27.0%	JAMAICA	1	3
SAUDI ARABIA	42	27	-35.7%	SOUTH WEST AFRICA	1	2
SYRIAN ARAB REPUBLIC	25	21	-16.0%	FINLAND	3	2
TUNISIA	21	21	0.0%	ICELAND	2	2
GERMAN FEDERAL REPUBLIC	32	20	-37.5%	ALGERIA	3	2
BRAZIL	21	20	-4.8%	BAHAMA ISLANDS	1	2
MEXICO	11	18	63.6%	SENEGAL	2	2
SRI LANKA	16	17	6.3%	PORTUGAL	1	2
CHILE	21	16	-23.8%	YEMEN	2	2
ARGENTINA	15	16	6.7%	NICARAGUA	2	2
HUNGARY	12	16	33.3%	NEW ZEALAND	3	2
CYPRUS	20	16	-20.0%	TANZANIA	3	2
UGANDA	6	13	116.7%	BOLIVIA	4	2
MOROCCO	8	13	62.5%	ZIMBABWE	2	2
COSTA RICA	11	13	18.2%	TOGO	1	1
VENEZUELA	12	13	8.3%	SOVIET UNION	0	1
GHANA	10	13	30.0%	WEST INDIES	0	1
BANGLADESH	17	12	-29.4%	GERMAN DEMOCRATIC REPUBLIC	1	1
NIGERIA	20	11	-45.0%	EL SALVADOR	2	1
AUSTRALIA	11	11	0.0%	PEOPLE'S REPUBLIC OF KOREA	1	1
COLOMBIA	18	10	-44.4%	GUINEA	1	1
UNITED ARAB EMIRATES	11	10	-9.1%	BULGARIA	1	1
ISRAEL	15	9	-40.0%	BRUNEI	2	1
POLAND	5	9	80.0%	DENMARK	2	1
ECUADOR	7	9	28.6%	UNKNOWN	0	1
DOMINICAN REPUBLIC	8	8	0.0%	SAINT LUCIA	1	1
ITALY	8	7	-12.5%	NIGER	3	1
GUYANA	6	7	16.7%	SIERRA LEONE	1	1
HAITI	0	7	UNKNOWN	SCOTLAND	3	1
NETHERLANDS	4	7	75.0%	LUXEMBOURG	0	1
SPAIN	6	6	0.0%	LIBYA	5	1
IRELAND	7	6	-14.3%	NETHERLANDS ANTILLES	2	1
ETHIOPIA	3	6	100.0%	MALTA	1	1
YUGOSLAVIA	6	6	0.0%			
IRAQ	6	5	-16.7%			
TOTAL INTERNATIONAL STUDENTS					2,897	

ENROLLMENT OF INTERNATIONAL STUDENTS BY CURRICULUM
COLUMBUS CAMPUS

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 11

	Enrollment in Degree-Granting Programs				Enrollment by Graduate Students in Curricular Academic Programs			
	AU '88	Percent of Total Enrolled	AU '89	Percent of Total Enrolled	AU '88	Percent of Total Enrolled	AU '89	Percent of Total Enrolled
	UNDERGRADUATE				GRADUATE			
Agriculture								
Agriculture	10	0.8%	13	1.1%	200	40.6%	209	43.7%
Natural Resources	0	0.0%	1	0.3%	6	15.0%	4	10.8%
Arts and Sciences								
Arts and Sciences, General	12	0.8%	17	0.9%				
Arts and Sciences, Unknown	4	5.6%	1	0.9%				
The Arts	6	0.8%	9	1.3%	71	14.6%	77	16.6%
Biological Sciences	4	0.5%	7	0.9%	93	28.4%	113	33.6%
Humanities	5	0.4%	8	0.6%	134	17.8%	141	17.4%
Journalism	7	0.5%	5	0.6%	10	9.6%	14	14.1%
Mathematical and Physical Sciences	9	1.5%	9	1.5%	355	40.7%	362	42.0%
Social and Behavioral Sciences	15	0.5%	11	0.4%	210	23.2%	188	22.9%
Business	65	2.0%	84	2.6%	121	14.7%	106	15.8%
Continuing Education	89	4.1%	88	4.7%				
Dentistry								
Dental Hygiene	1	1.2%	0	0.0%				
Education	7	0.4%	3	0.2%	154	5.6%	163	6.5%
Engineering								
Engineering	174	4.2%	169	4.3%	632	49.3%	657	51.9%
Architecture	14	2.6%	9	1.8%	71	34.0%	58	31.2%
Graduate School	n/a	n/a	n/a	n/a	37	36.3%	59	21.1%
Human Ecology	8	0.7%	10	0.9%	39	22.3%	29	17.2%
Medicine								
Allied Medical Professions	3	0.5%	1	0.2%	3	4.2%	5	6.7%
Nursing	0	0.0%	0	0.0%	1	0.5%	0	0.0%
Pharmacy	13	2.8%	15	3.2%	24	28.2%	28	30.8%
Social Work	0	0.0%	0	0.0%	10	2.7%	12	3.5%
University College	97	0.6%	118	0.8%	n/a	n/a	n/a	n/a
TOTAL	543	1.3%	578	1.4%				
	PROFESSIONAL							
Dentistry	8	1.8%	9	2.0%	14	17.7%	14	19.2%
Law	2	0.3%	3	0.5%				
Medicine	0	0.0%	0	0.0%	29	14.4%	38	17.1%
Optometry	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Pharmacy, Doctor of	2	15.4%	1	5.9%				
Veterinary Medicine	0	0.0%	0	0.0%	21	30.0%	19	25.0%
TOTAL	12	0.4%	13	0.5%	2,235	21.5%	2,296	22.8%

ENROLLMENT BY RACE AND CAMPUS
AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 12

	Columbus	Lima	Mansfield	Marion	Newark	Wooster	TOTAL
Nonresident Alien							
AU '88	2,790	0	0	0	0	4	2,794
AU '89	2,887	0	0	0	2	9	2,898
Change	97	0	0	0	2	5	104
% Change	3.5%					125.0%	3.7%
Black							
AU '88	2,413	28	24	50	26	28	2,569
AU '89	2,571	26	30	51	24	27	2,729
Change	158	-2	6	1	-2	-1	160
% Change	6.5%	-7.1%	25.0%	2.0%	-7.7%	-3.6%	6.2%
American Indian/Alaskan Native							
AU '88	88	0	5	5	1	2	101
AU '89	82	3	5	5	3	1	99
Change	-6	3	0	0	2	-1	-2
% Change	-6.8%		0.0%	0.0%	200.0%	-50.0%	-2.0%
Asian/Pacific Islander							
AU '88	1,305	2	5	4	5	1	1,322
AU '89	1,381	7	8	9	11	1	1,417
Change	76	5	3	5	6	0	95
% Change	5.8%	250.0%	60.0%	125.0%	120.0%	0.0%	7.2%
Hispanic							
AU '88	611	7	6	1	2	0	627
AU '89	614	9	6	1	3	3	636
Change	3	2	0	0	1	3	9
% Change	0.5%	28.6%	0.0%	0.0%	50.0%		1.4%
White							
AU '88	44,161	1,160	1,107	987	1,343	638	49,396
AU '89	43,443	1,217	1,193	1,024	1,444	658	48,979
Change	-718	57	86	37	101	20	-417
% Change	-1.6%	4.9%	7.8%	3.7%	7.5%	3.1%	-0.8%
Unknown							
AU '88	2,301	79	130	90	126	12	2,738
AU '89	1,917	51	94	71	95	6	2,236
Change	-384	-28	-36	-19	-31	-4	-502
% Change	-16.7%	-35.4%	-27.7%	-21.1%	-24.6%	-33.3%	-18.3%
TOTAL UNIVERSITY							
AU '88	53,669	1,276	1,277	1,137	1,503	685	59,547
AU '89	52,895	1,313	1,336	1,161	1,582	707	58,994
Change	-774	37	59	24	79	22	-553
% Change	-1.4%	2.9%	4.6%	2.1%	5.3%	3.2%	-0.9%

ENROLLMENT BY LEVEL, SOURCE, AND RACE
TOTAL UNIVERSITY

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 13

	Undergraduate			Post- baccalaureate Professional	Graduate	TOTAL
	NFQF	Other	Total			
Nonresident Alien						
AU '88	24	523	547	12	2,235	2,794
AU '89	34	555	589	13	2,296	2,898
Change	10	32	42	1	61	104
% Change	41.7%	6.1%	7.7%	8.3%	2.7%	3.7%
Black						
AU '88	482	1,507	1,989	123	457	2,569
AU '89	543	1,543	2,086	142	501	2,729
Change	61	36	97	19	44	160
% Change	12.7%	2.4%	4.9%	15.4%	9.6%	6.2%
American Indian/Alaskan Native						
AU '88	13	57	70	7	24	101
AU '89	14	52	66	9	24	99
Change	1	-5	-4	2	0	-2
% Change	7.7%	-8.8%	-5.7%	28.6%	0.0%	-2.0%
Asian/Pacific Islander						
AU '88	171	813	984	130	208	1,322
AU '89	189	907	1,096	142	179	1,417
Change	18	94	112	12	-29	95
% Change	10.5%	11.6%	11.4%	9.2%	-13.9%	7.2%
Hispanic						
AU '88	96	356	452	44	131	627
AU '89	129	357	486	38	112	636
Change	33	1	34	-6	-19	9
% Change	34.4%	0.3%	7.5%	-13.6%	-14.5%	1.4%
White						
AU '88	7,820	32,383	40,203	2,370	6,823	49,396
AU '89	7,200	32,857	40,057	2,311	6,611	48,979
Change	-620	474	-146	-59	-212	-417
% Change	-7.9%	1.5%	-0.4%	-2.5%	-3.1%	-0.8%
Unknown						
AU '88	116	1,765	1,881	57	800	2,738
AU '89	78	1,475	1,553	53	630	2,236
Change	-38	-290	-328	-4	-170	-502
% Change	-32.8%	-16.4%	-17.4%	-7.0%	-21.3%	-18.3%
TOTAL UNIVERSITY						
AU '88	8,722	37,404	46,126	2,743	10,678	59,547
AU '89	8,187	37,746	45,933	2,708	10,353	58,994
Change	-535	342	-193	-35	-325	-553
% Change	-6.1%	0.9%	-0.4%	-1.3%	-3.0%	-0.9%

ENROLLMENT BY LEVEL, SOURCE, AND RACE
COLUMBUS CAMPUS

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 14

	Undergraduate			Post- baccalaureate Professional	Graduate	TOTAL
	NFQF	Other	Total			
Nonresident Alien						
AU '88	23	520	543	12	2,235	2,790
AU '89	34	544	578	13	2,296	2,887
Change	11	24	35	1	61	97
% Change	47.8%	4.6%	6.4%	8.3%	2.7%	3.5%
Black						
AU '88	447	1,390	1,837	123	453	2,413
AU '89	486	1,449	1,935	142	494	2,571
Change	39	59	98	19	41	158
% Change	8.7%	4.2%	5.3%	15.4%	9.1%	6.5%
American Indian/Alaskan Native						
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%	-6.8%
Asian/Pacific Islander						
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						
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						
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						
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	7,098	33,440	40,538	2,743	10,388	53,669
AU '89	6,148	33,974	40,122	2,708	10,065	52,895
Change	-950	534	-416	-35	-323	-774
% Change	-13.4%	1.6%	-1.0%	-1.3%	-3.1%	-1.4%

ENROLLMENT BY LEVEL, RACE, AND RESIDENCY
TOTAL UNIVERSITY

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 15

	Undergraduate			Postbaccalaureate Professional			Graduate		
	Ohio Resident	Not Ohio Resident	Total	Ohio Resident	Not Ohio Resident	Total	Ohio Resident	Not Ohio Resident	Total
Nonresident Alien									
AU '88		547	547		12	12		2,235	2,235
AU '89		589	589		13	13		2,296	2,296
Change		42	42		1	1		61	61
% Change		7.7%	7.7%		8.3%	8.3%		2.7%	2.7%
Black									
AU '88	1,897	92	1,989	76	47	123	333	124	457
AU '89	1,975	111	2,086	96	46	142	364	137	501
Change	78	19	97	20	-1	19	31	13	44
% Change	4.1%	20.7%	4.9%	26.3%	-2.1%	15.4%	9.3%	10.5%	9.6%
American Indian or Alaskan Native									
AU '88	65	5	70	6	1	7	18	6	24
AU '89	62	4	66	7	2	9	20	4	24
Change	-3	-1	-6	1	1	2	2	-2	0
% Change	-4.6%	-20.0%	-5.7%	16.7%	100.0%	28.6%	11.1%	-33.3%	0.0%
Asian or Pacific Islander									
AU '88	907	77	984	116	14	130	167	41	208
AU '89	1,025	71	1,096	124	18	142	136	43	179
Change	118	-6	112	8	4	12	-31	2	-29
% Change	13.0%	-7.8%	11.4%	6.9%	28.6%	9.2%	-18.6%	4.9%	-13.9%
Hispanic									
AU '88	384	68	452	31	13	44	84	47	131
AU '89	402	84	486	28	10	38	70	42	112
Change	18	16	34	-3	-3	-6	-14	-5	-19
% Change	4.7%	23.5%	7.5%	-9.7%	-23.1%	-13.6%	-16.7%	-10.6%	-14.5%
White									
AU '88	38,382	1,821	40,203	2,168	202	2,370	6,172	651	6,823
AU '89	38,138	1,919	40,057	2,117	194	2,311	5,732	879	6,611
Change	-244	98	-146	-51	-8	-59	-440	228	-212
% Change	-0.6%	5.4%	-0.4%	-2.4%	-4.0%	-2.5%	-7.1%	35.0%	-3.1%
Unknown									
AU '88	1,847	34	1,881	45	12	57	783	17	800
AU '89	1,511	42	1,553	48	5	53	611	19	630
Change	-336	8	-328	3	-7	-4	-172	2	-170
% Change	-18.2%	23.5%	-17.4%	6.7%	-58.3%	-7.0%	-22.0%	11.8%	-21.3%
TOTAL UNIVERSITY									
AU '88	43,482	2,644	46,126	2,442	301	2,743	7,557	3,121	10,678
AU '89	43,113	2,820	45,933	2,420	288	2,708	6,933	3,420	10,353
Change	-369	176	-193	-22	-13	-35	-624	299	-325
% Change	-0.8%	6.7%	-0.4%	-0.9%	-4.3%	-1.3%	-8.3%	9.6%	-3.0%

ENROLLMENT BY FULL-TIME/PART-TIME, LEVEL, AND AGE RANGE
TOTAL UNIVERSITY

AUTUMN QUARTER 1989

FOURTEENTH DAY ENROLLMENT

TABLE 16

	FULL-TIME*			PART-TIME			TOTAL			
	Men	Women	Total	Men	Women	Total	Men	Women	Total	
UNDERGRADUATE										
0 to 17		113	189	302	22	26	48	135	215	350
18 to 19	7,500	7,601	15,101	436	398	834	7,936	7,999	15,935	
20 to 21	6,489	6,135	12,624	700	558	1,258	7,189	6,693	13,882	
22 to 24	4,190	2,653	6,843	1,072	818	1,890	5,262	3,471	8,733	
25 to 29	1,099	663	1,762	907	759	1,666	2,006	1,422	3,428	
30 to 34	313	370	683	420	465	885	733	835	1,568	
35 to 39	129	229	358	234	428	662	363	657	1,020	
40 to 49	53	182	235	165	408	573	218	590	808	
50 to 64	9	26	35	50	97	147	59	123	182	
65 and over	3	1	4	5	13	18	8	14	22	
Unknown	2	3	5	0	0	0	2	3	5	
TOTAL	19,900	18,052	37,952	4,011	3,970	7,981	23,911	22,022	45,933	
GRADUATE										
0 to 17	0	0	0	0	0	0	0	0	0	
18 to 19	1	0	1	0	0	0	1	0	1	
20 to 21	57	31	88	9	5	14	66	36	102	
22 to 24	737	663	1,400	289	298	587	1,026	961	1,987	
25 to 29	1,155	658	1,813	730	734	1,464	1,885	1,392	3,277	
30 to 34	610	318	928	562	581	1,143	1,172	899	2,071	
35 to 39	240	200	440	326	606	932	566	806	1,372	
40 to 49	123	171	294	226	749	975	349	920	1,269	
50 to 64	18	26	44	34	184	218	52	210	262	
65 and over	0	1	1	3	4	7	3	5	8	
Unknown	2	0	2	1	1	2	3	1	4	
TOTAL	2,943	2,068	5,011	2,180	3,162	5,342	5,123	5,230	10,353	
POSTBACCALAUREATE PROFESSIONAL										
0 to 17	1	0	1	0	0	0	1	0	1	
18 to 19	2	0	2	0	0	0	2	0	2	
20 to 21	51	59	110	0	0	0	51	59	110	
22 to 24	839	557	1,396	2	7	9	841	564	1,405	
25 to 29	570	341	911	9	14	23	579	355	934	
30 to 34	66	95	161	1	3	4	67	98	165	
35 to 39	23	40	63	0	2	2	23	42	65	
40 to 49	12	12	24	0	0	0	12	12	24	
50 to 64	1	0	1	0	0	0	1	0	1	
65 and over	1	0	1	0	0	0	1	0	1	
Unknown	0	0	0	0	0	0	0	0	0	
TOTAL	1,566	1,104	2,670	12	26	38	1,578	1,130	2,708	

* 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.

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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

Collection size:	4,254,266 volumes (ranks 16th among members of the Association of Research Libraries)
Serial subscriptions:	31,154
Microforms:	2,971,011
Staff (FTE):	118 Professional 210 Civil Service 126 Student 454 Total
Total expenditures:	\$15,791,448
Collections:	5,146,512 (32.6%)
Salaries & Wages:	8,434,918 (53.4%)
Operating:	2,210,018 (14%)
Number of library locations:	26
Square footage of all locations:	ca. 500,000
Seating for patrons:	6,620
Number of patrons entering libraries annually:	6 million
Items circulated (borrowed):	1,559,036
Items loaned to other libraries:	31,060
Items borrowed from other libraries:	13,297
Library Control System (LCS) transactions:	24,000,000 from 185 library terminals and 9 dial-access ports
Hours of Opening:	Main library open 110 hours/week

*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**

Top* Ten

University of Illinois, Urbana

University of California, Berkeley

University of Michigan

University of Texas, Austin

University of California, Los Angeles

University of Wisconsin, Madison

University of Washington

University of Minnesota

The Ohio State University

Indiana University, Bloomington

*Based on size of collection.

Big Ten**

University of Illinois, Urbana

University of Michigan

University of Wisconsin, Madison

University of Minnesota

The Ohio State University

Indiana University, Bloomington

Northwestern University

Michigan State University

University of Iowa

Purdue University, West Lafayette

**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

	Ohio State, Columbus	Mean of Top* Ten	Mean of Big Ten
Collections			
Volumes Held	4,254,266	5,470,991	4,244,736
Volumes Added (Gross)	96,629	141,060	108,944
Serials Currently Received	31,154	63,615	41,477
Staff			
Professional Staff (FTE)	118	142	112
Non-Professional Staff (FTE)	210	263	193
Student Assistant Staff (FTE)	126	150	120
Total Staff	454	554	425
Expenditures			
For Salaries & Wages (excluding fringe benefits)	\$8,434,918	\$10,528,107	\$7,620,682
For Library Materials & Binding	\$5,146,512	\$5,866,264	\$4,810,692
Other Operating	\$2,210,018	\$2,758,760	\$1,918,503
Total Expenditures	\$15,791,448	\$19,153,131	\$14,349,877

*(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

Institution	Volumes Held	(Rank)	Volumes Added (Gross)	(Rank)	Serials Currently Received	(Rank)
Illinois,** Urbana	7,377,051	(1)	189,222	(3)	92,530	(3)
California Berkeley**	7,190,821	(2)	195,012	(2)	98,861	(1)
Michigan	6,133,171	(3)	130,358	(6)	67,530	(5)
Texas,** Austin	5,888,776	(4)	141,903	(5)	79,392	(4)
California, Los Angeles	5,812,163	(5)	207,140	(1)	94,757	(2)
Wisconsin, Madison	4,804,386	(6)	100,070	(8)	50,913	(7)
Washington	4,764,341	(7)	162,688	(4)	55,080	(6)
Minnesota	4,473,262	(8)	94,262	(10)	39,246	(8)
OHIO STATE, Columbus	4,254,266	(9)	96,629	(9)	31,154	(9)
Indiana,** Bloomington	4,011,675	(10)	103,316	(7)	26,684	(10)
Mean	5,470,991		141,060		63,615	
Ohio State Deviation from Mean	- 1,216,725		- 44,431		- 32,461	
Ohio State Deviation from Illinois	- 3,122,785		- 92,593		- 61,376	
Ohio State Deviation from Michigan	- 1,878,905		- 33,729		- 36,376	

*Based on size of library collection. All data are taken from ARL Statistics, 1987/88 (Washington: Association of Research Libraries, 1989).

**Note: Data for these universities do not reflect health sciences/medical campuses.

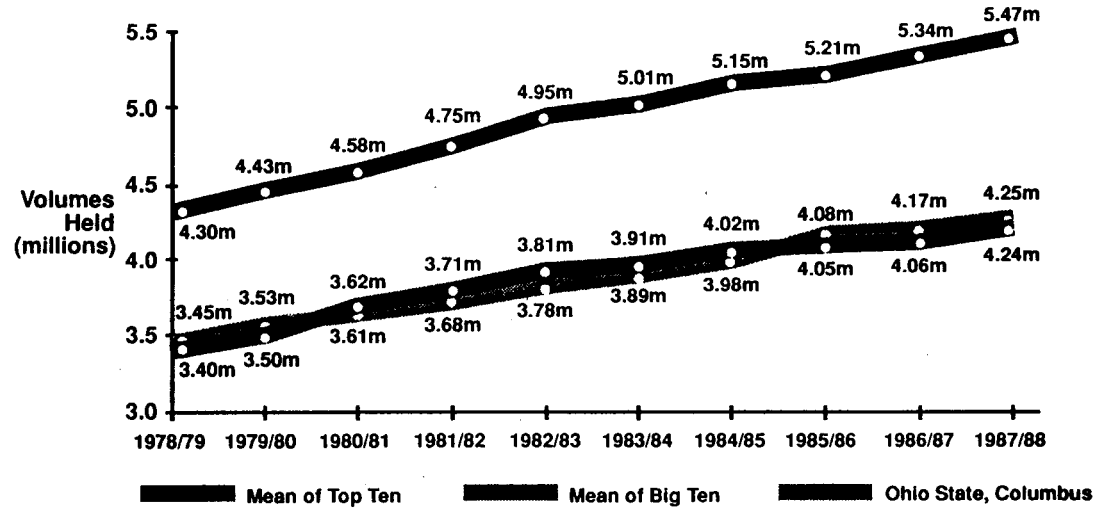
Library Collections, Big Ten University Libraries* 1987/88

Institution	Volumes Held	(Rank)	Volumes Added (Gross)	(Rank)	Serials Currently Received	(Rank)
Illinois,** Urbana	7,377,051	(1)	189,222	(1)	92,530	(1)
Michigan	6,133,171	(2)	130,358	(2)	67,530	(2)
Wisconsin, Madison	4,804,386	(3)	100,070	(5)	50,913	(3)
Minnesota	4,473,262	(4)	94,262	(8)	39,246	(4)
OHIO STATE Columbus	4,254,266	(5)	96,629	(6)	31,154	(6)
Indiana,** Bloomington	4,011,675	(6)	103,316	(4)	26,684	(8)
Northwestern	3,346,817	(7)	88,466	(9)	33,226	(5)
Michigan State**	3,301,739	(8)	116,564	(3)	29,556	(7)
Iowa	2,830,932	(9)	96,134	(7)	22,877	(9)
Purdue,** W. Lafayette	1,814,065	(10)	73,415	(10)	21,056	(10)
Mean	4,244,736		108,844		41,477	
Ohio State Deviation from Mean	+ 9,530		- 12,215		- 10,323	
Ohio State Deviation from Illinois	- 3,122,785		- 92,593		- 61,376	
Ohio State Deviation from Michigan	- 1,678,905		- 33,729		- 36,376	

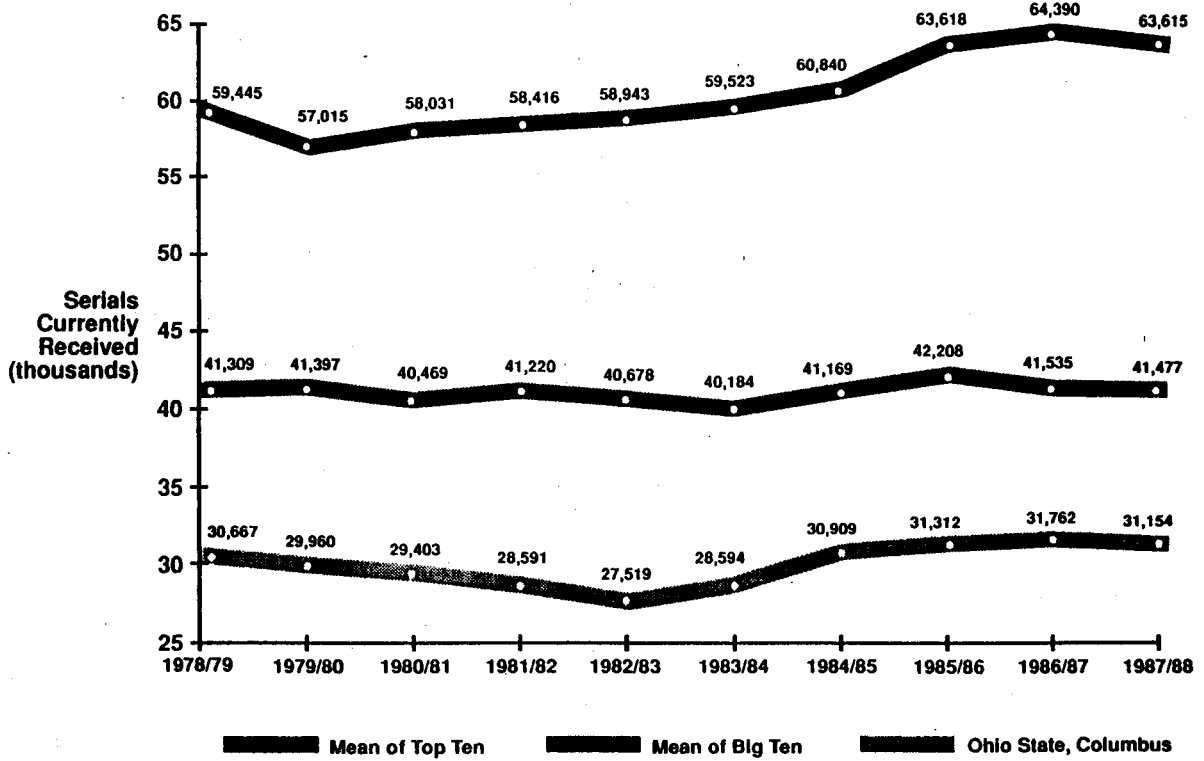
*In order by size of library collection. All data are taken from ARL Statistics, 1987/88 (Washington: Association of Research Libraries, 1989).

**Note: Data for these universities do not reflect health sciences/medical campuses.

Trends in Growth of Library Collections 1978/79 - 1987/88



Trends in Numbers of Serials Currently Received 1978/79 - 1987/88



Levels of Library Expenditures, Top* Ten Publicly-Assisted University Libraries In The United States, 1987/88

Institution	Educational and General Expenditures	(Rank)	Total Library Expenditures	(Rank)	Library Expenditures as Percentage of E&G	(Rank)
Illinois, Urbana**	\$541,935,721	(8)	\$16,337,081	(7)	3.0%	(5)
California Berkeley**	\$627,584,426	(7)	\$27,524,192	(2)	4.4%	(1)
Michigan	\$724,781,388	(3)	\$20,472,160,	(3)	2.8%	(6)
Texas,** Austin	\$452,538,832	(9)	\$17,582,447	(6)	3.9%	(2/3)
California, Los Angeles	\$919,530,137	(1)	\$28,447,376	(1)	3.1%	(4)
Wisconsin, Madison	\$703,522,589	(4)	\$18,161,108	(5)	2.6%	(7)
Washington	\$631,089,000	(6)	\$15,756,741	(9)	2.5%	(8/9)
Minnesota	\$760,890,141	(2)	\$18,850,330	(4)	2.5%	(8/9)
OHIO STATE, Columbus	\$666,604,334	(5)	\$15,791,448	(8)	2.4%	(10)
Indiana,** Bloomington	\$319,394,077	(10)	\$12,608,425	(10)	3.9%	(2/3)
Mean of Top Ten	\$634,787,065		\$19,153,131		3.1%	
Ohio State Deviation from Mean	+\$31,817,269		-\$3,361,683		-0.7%	
Ohio State Deviation from Illinois	+\$124,668,613		-\$545,633		-0.6%	
Ohio State Deviation from Michigan	-\$58,177,054		-\$4,680,712		-0.4%	

*Based on 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" 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

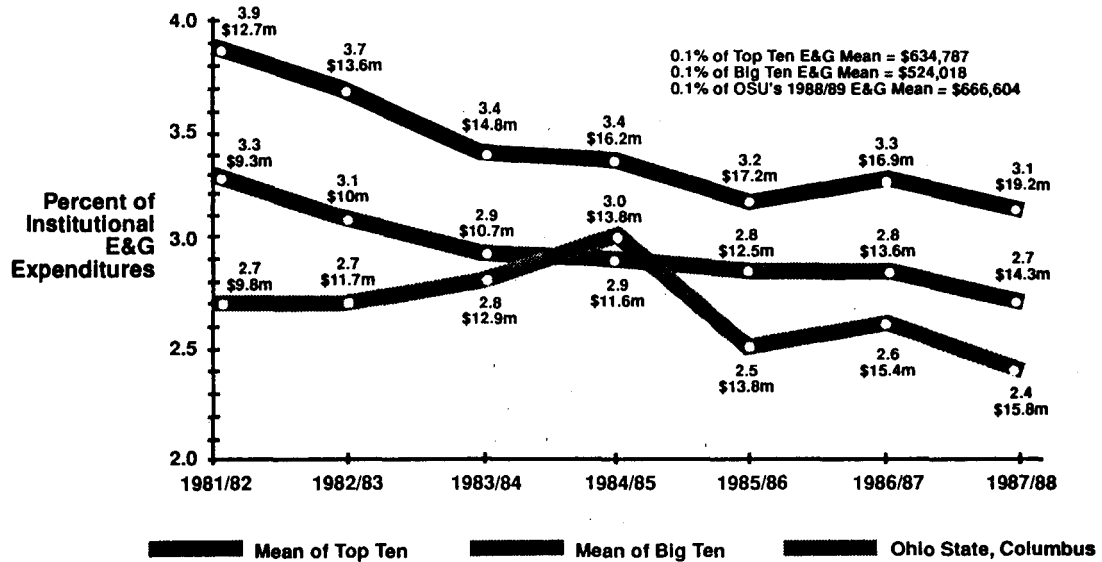
Institution	Educational and General Expenditures	(Rank)	Total Library Expenditures	(Rank)	Library Expenditures as Percentage of E&G	(Rank)
Illinois,** Urbana	\$541,935,721	(5)	\$16,337,081	(4)	3.0%	(3/4)
Michigan	\$724,781,388	(2)	\$20,472,160	(1)	2.8%	(5)
Wisconsin, Madison	\$703,522,589	(3)	\$18,161,108	(3)	2.6%	(6)
Minnesota	\$760,890,141	(1)	\$18,850,330	(2)	2.5%	(7)
OHIO STATE, Columbus	\$666,604,334	(4)	\$15,791,448	(5)	2.4%	(8)
Indiana,** Bloomington	\$319,394,077	(9)	\$12,608,425	(6)	3.9%	(1)
Northwestern	\$356,928,000	(8)	\$10,650,409	(7)	3.0%	(3/4)
Michigan State**	\$473,491,831	(6)	\$10,397,545	(8)	2.2%	(9)
Iowa	\$310,209,873	(10)	\$ 9,829,382	(9)	3.2%	(2)
Purdue,** W. Lafayette	\$382,424,199	(7)	\$ 7,350,599	(10)	1.9%	(10)
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	-\$58,177,054		-\$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



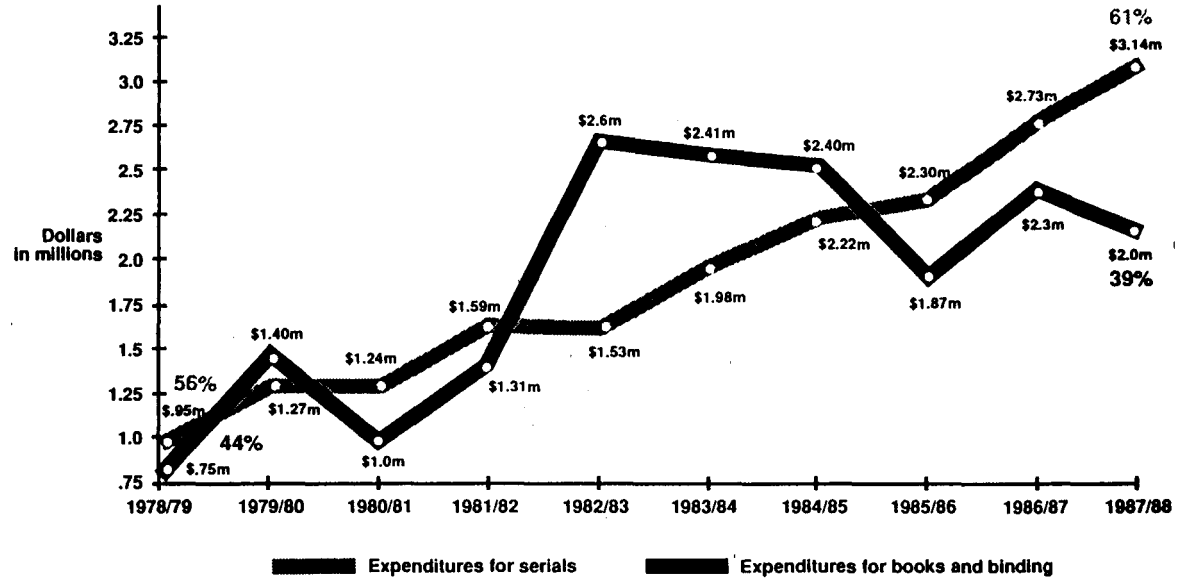
* Based on size of library collection. All data are taken from reports of the Association of Research Libraries.

**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**

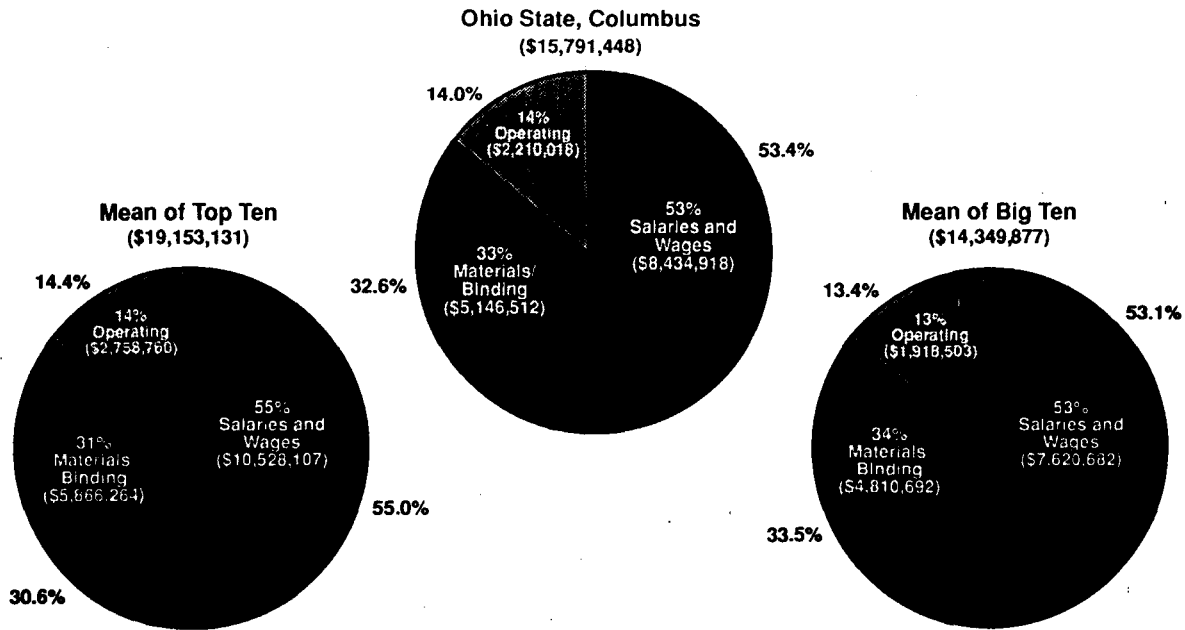
Institution	Full-Time Instructional Faculty (Total)	Rank	Total Library Expenditures per Full-Time Faculty Member	Rank	Graduate/Professional Students (Headcount Total)	Rank	Total Library Expenditures per Graduate/ Professional Student	Rank
Illinois,** Urbana	1,913	(2)	\$ 8,540	(9)	9,275	(8)	\$1,761	(4)
California, Berkeley**	1,378	(9)	\$19,974	(2)	9,281	(7)	\$2,966	(1)
Michigan	1,579	(5)	\$12,965	(3)	12,772	(3)	\$1,603	(5)
Texas,** Austin	1,842	(3)	\$ 9,545	(7)	11,548	(6)	\$1,523	(7)
California, Los Angeles	1,382	(8)	\$20,584	(1)	11,934	(5)	\$2,384	(2)
Wisconsin, Madison	1,449	(7)	\$12,534	(4)	13,591	(2)	\$1,336	(8)
Washington	1,664	(4)	\$ 9,469	(8)	8,611	(9)	\$1,830	(3)
Minnesota	1,538	(6)	\$12,256	(5)	14,178	(1)	\$1,330	(9)
OHIO STATE, Columbus	1,944	(1)	\$ 8,123	(10)	12,663	(4)	\$1,247	(10)
Indiana,** Bloomington	1,194	(10)	\$10,560	(6)	8,238	(10)	\$1,531	(6)
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%)		+3,388(+37%)		- \$514(-29%)	
Ohio State Deviation from Michigan	+365(+23%)		-\$4,842(-37%)		- 109(-1%)		- \$356(-22%)	

*Based on size of library collection. **Data for these universities do not reflect health sciences/medical campuses. Data sources: For students: Calculated from data in Freshmen in the Spotlight: 1987 Enrollment at Public Four-Year Colleges and Universities (Washington: American Association of State Colleges and Universities and National Association of State Universities and Land-Grant Colleges, 1989) and the 19th ed. of Peterson's Guide to Four Year Colleges (1989). For faculty: from "The Annual Report on the Economic Status of the Profession, 1988-89," Academe (March-April 1989).

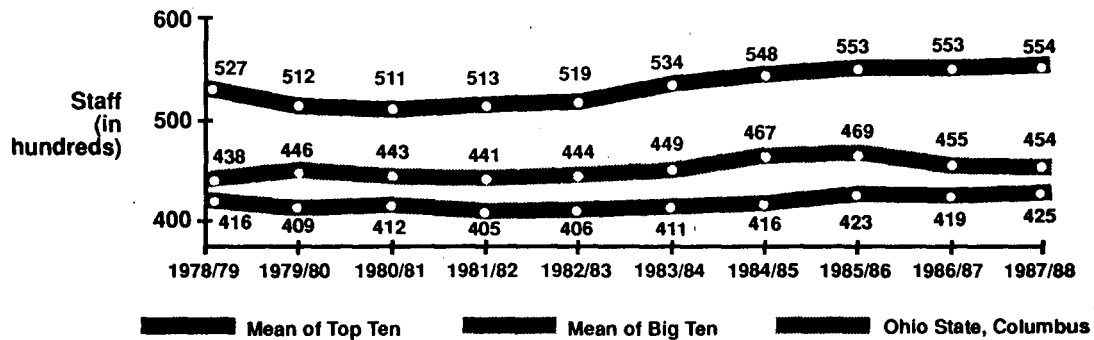
Trends in the Growth of Expenditures for
Serials vs. Books and Binding,
Ohio State, Columbus
1978/79 - 1987/88



**Library Expenditure: Ohio State, Columbus
With the Mean of the Top Ten Publicly Assisted Universities
and the Big Ten
1987/88**



Trends In Growth Of Library Staff 1978/79 - 1987/88



Size of Total Student Body Related to Levels of Library Professional Staffing Top* Ten Publicly-Assisted University Libraries in the United States, 1987/88

Institution	Full-Time Students (Total) [Part-Time Students Excluded]	Rank	Ratio of Full-Time Students to Professional Library Staff	Rank	All Students (Headcount Total)	Rank	Ratio of All Students (Headcount Total) to Professional Library Staff	Rank
Illinois,** Urbana	33,185	(4)	224:1	(4/5)	38,970	(5)	263:1	(4)
California, Berkeley**	28,632	(8)	170:1	(2)	32,055	(10)	191:1	(2)
Michigan	31,575	(6)	222:1	(3)	35,623	(6)	251:1	(3)
Texas,** Austin	40,063	(2)	292:1	(9)	47,743	(3)	348:1	(8)
California, Los Angeles	32,982	(5)	158:1	(1)	35,435	(7)	170:1	(1)
Wisconsin, Madison	36,437	(3)	262:1	(8)	43,368	(4)	315:1	(7)
Washington	28,864	(7)	242:1	(6)	33,302	(9)	280:1	(5)
Minnesota	28,248	(10)	224:1	(4/5)	62,223	(1)	494:1	(10)
OHIO STATE, Columbus	42,584	(1)	361:1	(10)	53,115	(2)	450:1	(9)
Indiana,** Bloomington	28,240	(9)	252:1	(7)	33,421	(8)	298:1	(6)
Mean of Top Ten	33,063		241:1		41,526		306:1	
Ohio State Deviation from Mean	+9,511(+29%)		+120:1 (+50%)		+11,589(+28%)		+144:1 (+47%)	
Ohio State Deviation from Illinois	+9,409(+28%)		+137:1 (+61%)		+14,145(+36%)		+187:1 (+71%)	
Ohio State Deviation from Michigan	+11,020(+35%)		+139:1 (+63%)		+17,492(+49%)		+199:1 (+79%)	

*Based on size of library collection. **Data for these universities do not reflect health sciences/medical campuses. Data source: Freshmen in the Spotlight: 1987/1988 Enrollment at Public, Four-Year Colleges and Universities (Washington: American Association of State Colleges and Universities and National Association of State Universities and Land-Grant Colleges, 1988).

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 6th 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)



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261

**THE OHIO STATE UNIVERSITY
ENDOWMENT SUMMARY
October 20, 1989**

Endowment Composition

	<u>06-30-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>10-20-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
Equities:				
Chicago Corp.	\$ 34,629,320	13.98%	\$ 37,490,553	14.22%
R. Meeder	-0-	-0-	13,949,480 (1)	5.29
Neuberger & Berman	13,552,018	5.47	14,383,789	5.46
Nicholas-Applegate	11,475,663	4.63	13,658,576	5.18
OSU Managed	80,168,113	32.35	30,720,666	11.66
Siebel	32,173,227	12.98	34,565,711	13.12
Wells Fargo EAFE	-0-	-0-	10,000,000 (2)	3.79
Wells Fargo S&P 500	-0-	-0-	28,677,608 (3)	10.88
Total Equities	\$171,998,341	69.41%	\$183,446,383	69.60%
Fixed Income:				
Boatmen's Trust	\$ 23,841,580	9.62%	\$ 23,921,037	9.08%
Cambridge	951,048	0.38	952,715	0.36
Duff & Phelps	10,243,208	4.13	10,288,994	3.90
WR Lazard	-0-	-0-	10,121,962 (4)	3.84
OSU - GNMA	10,144,887	4.10	10,143,133	3.85
OSU Managed	6,465,211	2.61	465,607	0.18
STW Fixed Income	24,150,270	9.75	24,216,126	9.19
Total Fixed Income	\$ 75,796,204	30.59%	\$ 80,109,574	30.40%
Total Equities & Fixed Income	\$247,794,545	100.00%	\$263,555,957	100.00%
Real Estate	\$ 39,503,844		\$ 39,702,886	
Total Portfolio	\$287,298,389		\$303,258,843	

- (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

	<u>% Yield</u>	<u>% Change in Market Value October '88 to October '89</u>	<u>Total Estimated Return</u>
Equity:			
Chicago Corp.	3.24% (1)	18.37%	21.61%
R. Meeder	0.40 (2)	(7.00)	(6.60) (13)
Neuberger & Berman	2.82	19.55	22.37
Nicholas-Applegate	1.51 (3)	29.76	31.27
OSU Managed	5.66 (4)	13.66	19.32
Siebel	5.13 (5)	20.92	26.05
Wells Fargo EAFE	0.08	0.00	0.08 (14)
Wells Fargo S&P 500	0.14	(4.41)	(4.27) (15)
Standard & Poor's Index	3.93	22.39	26.32
Real Estate:	3.85%	8.42%	12.27%
Fixed Income:			
Boatmen's Trust	8.05% (6)	10.36%	18.41%
Cambridge	8.34 (7)	2.37	10.71
Duff & Phelps	8.13 (8)	2.96	11.09
WR Lazard	1.70 (9)	1.22	2.92 (13)
OSU - GNMA	9.81 (10)	1.35	11.16
OSU Managed	9.20 (11)	(0.43)	8.77
STW Fixed Income	8.96 (12)	8.12	17.08
Merrill Lynch Corporate/ Government Master	8.67	3.91	12.58
Shearson Lehman Hutton Government/ Corporate Index	9.30	2.02	11.32

- (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) 2.8% of Nicholas-Applegate 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 7.9%.
- (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) 1.1% of OSU-GNMA 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.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>10-20-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-89)	\$287,298,389	Equities	\$166,540,657	54.92%
Principal Additions	8,521,375	Fixed Income	78,562,905	25.90
Principal Withdrawals	(80,000)	Real Estate	39,600,000	13.06
Change in Market Value	<u>7,519,079</u>	Cash	<u>18,555,281</u>	<u>6.12</u>
Current Market Value	<u>\$303,258,843</u>	Total Portfolio	<u>\$303,258,843</u>	<u>100.00%</u>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
No Activity			

Real Estate

<u>Sale</u>	<u>Total Investment</u>
No Activity	

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
1,000	Consolidated Papers, Inc.	Chicago	40.0000	\$ 40,000.00	\$ 1,000.00
3,600	Dun & Bradstreet Corp.	"	55.2500	199,134.00	6,264.00
2,500	E-Systems, Inc.	"	33.4930	83,895.00	1,250.00
2,900	Gerber Scientific, Inc.	"	17.9390	52,211.60	348.00
4,100	Hewlett Packard, Inc.	"	51.3750	210,904.00	1,722.00
2,200	Luby's Cafeterias, Inc.	"	24.0000	52,943.00	1,232.00
3,500	NCR Corp.	"	59.8040	209,541.50	4,620.00
5,100	RPM, Inc.	"	19.5000	99,450.00	3,162.00
1,500	Banc One Corp.	Nicholas- Applegate	34.1250	51,277.50	1,560.00
4,600	Boeing Co.	"	58.1563	267,794.98	5,520.00
11,000	Chemical Waste Management, Inc.	"	23.3750	257,785.00	1,320.00
1,000	Dayton Hudson Corp.	"	62.1250	62,185.00	1,120.00
1,300	Flight Safety International, Inc.	"	42.1250	54,840.50	208.00
2,600	Foster Wheeler, Inc.	"	20.0000	52,156.00	1,144.00
9,000	Legent Corp.	"	30.2245	272,104.50	0.00
2,500	Microsoft Corp.	"	63.1679	157,919.70	0.00
2,500	Tandem Computers, Inc.	"	23.6250	59,212.50	0.00
1,500	Telephone & Data Systems, Inc.	"	40.0000	60,090.00	390.00
600	Chemical Bank of New York Corp.*	OSU	40.5625	24,337.50	1,632.00
26,500	Computer Associates International, Inc.	Siebel	15.9408	424,162.00	0.00
30,400	Enron Oil & Gas Corp.	"	19.6565	599,426.00	0.00
22,000	Hewlett Packard, Inc.	"	50.1110	1,103,982.00	9,240.00
10,000	Primerica Corp.	"	26.0200	<u>260,900.00</u>	<u>2,800.00</u>
				<u>\$4,656,252.28</u>	<u>\$44,532.00</u>

* Gift.

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
800	Disney (Walt) Co.	Chicago	132.2500	\$ 105,744.47	\$ 61,077.27
2,800	Dun & Bradstreet Corp.	"	55.6250	155,562.80	63,740.92
300	Newell Corp.	"	46.5000	13,930.03	9,211.19
2,000	Philip Morris Companies, Inc.	"	44.7500	89,367.01	66,207.94
7,500	Limited, Inc.	Nicholas- Applegate	36.1803	270,893.09	66,451.89
1,400	Neiman Marcus Group, Inc.	"	21.2500	29,665.00	6,129.31
7,500	Rubbermaid, Inc.	"	33.1628	248,262.70	30,962.10
8,500	Super Valu-Stores, Inc.	"	26.1109	221,425.19	(31,420.11)
5,200	Walgreen Co.	"	43.1680	224,154.30	(5,186.50)
8,500	Williams Companies, Inc.	"	39.5000	335,228.80	71,047.30
60	Duke Power Co.*	OSU	51.6250	3,078.19	10.69
1,900	Webster Industries*	"	29.0000	55,100.00	(7,480.40)
1,900	AMR Corp.	Siebel	102.9410	195,448.38	105,397.37
4,100	Federal National Mortgage Assoc.	"	129.0110	<u>528,640.46</u>	<u>402,964.80</u>
				<u>\$2,476,500.42</u>	<u>\$839,113.77</u>

* Gift.

The Ohio State University

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
500,000	U.S. Treasury Bond 7.500% 11/15/16	Boatmen's	8.2722	8.3749	90.6650	\$ 453,325.00
3,610,000	U.S. Treasury Bond 0.000% 11/15/03	"	0.000	8.5128	30.7180	1,108,919.80
925,000	U.S. Treasury Bond 8.125% 08/15/19	Cambridge	8.1581	8.1601	99.5938	921,242.19
1,000,000	California State G.O. 6.750% 10/01/04	SIW	6.7663	6.7755	99.7590	997,590.00
1,000,000	Triborough Bridge NY-Municipal 7.125% 01/01/19	"	7.2611	7.2794	98.1250	981,250.00
550,000	U.S. Treasury Bond 7.250% 05/15/16	"	7.9931	8.1066	90.7031	<u>498,867.19</u>
						<u>\$4,961,194.18</u>

The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
3,680,000	U.S. Treasury Bond 0.000% 05/15/04	Boatmen's	30.1750	\$1,110,440.00	\$143,152.00
925,000	U.S. Treasury Bond 8.125% 08/15/19	Cambridge	99.6562	921,820.31	(2,601.57)
600,000	U.S. Treasury Bond 10.375% 11/15/12	STW	120.2656	721,593.75	57,559.54
1,700,000	U.S. Treasury Bond 7.250% 05/15/16	"	90.7812	<u>1,543,281.25</u>	<u>(15,738.28)</u>
				<u>\$4,297,135.31</u>	<u>\$182,371.69</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
Building and 3.295 acres at 930 Kinnear Road	7.971	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
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
46.984 acres of land in Delaware County	.55	1971	100,793	641,000	06/89
Hanger at Don Scott Field (Loan)	.00	1973	29,332 (1)	29,332	N/A
Hanger addition at Don Scott Field (Loan)	10.00	1978	73,554 (1)	73,554	N/A
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	283,000	06/89
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,896,000	06/89
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,367,000	06/89
76.143 acres of land, 3253 West Granville Road	.03	1968	310,538	6,853,000	06/89
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,749,000	06/89
32 acres of land, 3371 West Granville Road	.19	1986	2,078,666	2,880,000	06/89
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,080,000	06/89
8.557 acres of land, 3505 West Granville Road	.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
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	1,155,000	08/89
17.92 acres of land on Elterman Road	.00	1978	25,152	725,000	05/88
Veterans Administration Clinic	8.08	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,333,827</u>	<u>\$39,702,886</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261

MEMORANDUM

Subject: Proxy Solicitations
Date: October 31, 1989
From: James L. Nichols, Treasurer *James L. Nichols*
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) Thielkol Corporation

APPENDIX XXV

THE AGRICULTURAL TECHNICAL INSTITUTE

Presented to the Agricultural Affairs Committee
November 3, 1989
(See page 395)

AGRICULTURAL AFFAIRS COMMITTEE
BOARD OF TRUSTEES
NOVEMBER 3, 1989
THE AGRICULTURAL TECHNICAL INSTITUTE

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.

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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)

THE OHIO STATE UNIVERSITY
 1989-90 CURRENT FUNDS BUDGET
 1ST QUARTER REPORT

Summary of Proposed Resources
 (In Millions of Dollars)

	Budgeted 1989-90	Estimated 1989-90	\$ Increase	% Increase
Central Campus				
Unrestricted General Funds	\$452.39	\$452.39	\$.00	.0%
Earnings Operations	346.34	346.34	.00	.0%
Restricted Funds	220.07	220.07	.00	.0%
Total Central Campus	\$1,018.80	\$1,018.80	\$.00	.0%
Regional Campuses	27.65	27.65	.00	.0%
OARDC	33.84	33.84	.00	.0%
Grand Totals	\$1,080.29	\$1,080.29	\$.00	.0%

THE OHIO STATE UNIVERSITY
 1989-90 CURRENT FUNDS BUDGET
 1ST QUARTER REPORT

Summary of Proposed Uses
 (In Millions of Dollars)

	Budgeted 1989-90	Estimated 1989-90	\$ Increase	% Increase
Central Campus				
Unrestricted General Funds	\$452.39	\$452.39	\$.00	.0%
Earnings Operations	346.23	346.23	.00	.0%
Restricted Funds	220.07	220.07	.00	.0%
Total Central Campus	\$1,018.69	\$1,018.69	\$.00	.0%
Regional Campuses	27.42	27.42	.00	.0%
OARDC	33.84	33.84	.00	.0%
Grand Totals	\$1,079.95	\$1,079.95	\$.00	.0%

THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET
1ST QUARTER REPORT

All Funds Resources Summary
(In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1989-90	Budgeted 1989-90
Central Campus					
State Appropriations	\$265.13	\$.00	\$39.51	\$304.64	\$304.64
Student Fees	153.69	5.00	.00	158.69	158.69
Other Resources					
Federal Grants and Contracts	17.28	.00	85.60	102.88	102.88
Ohio Grants and Contracts	.37	.00	15.16	15.53	15.53
Local Grants and Contracts	.74	.00	13.10	13.84	13.84
Private Gifts and Grants	3.96	.00	57.90	61.86	61.86
Endowment Income	1.55	.00	8.80	10.35	10.35
Department and University Services	.40	28.37	.00	28.77	28.77
Auxiliary Sales & Charges	.02	86.23	.00	86.25	86.25
Hospital Sales & Services	.00	222.45	.00	222.45	222.45
Other Sources	9.25	4.29	.00	13.54	13.54
Total Other Resources	\$33.57	\$341.34	\$180.56	\$555.47	\$555.47
Total Central Campus	\$452.39	\$346.34	\$220.07	\$1,018.80	\$1,018.80
Regional Campuses					
State Appropriations	13.28	.00	.02	13.30	13.30
Student Fees	9.64	.13	.00	9.77	9.77
Other Resources	.62	1.61	2.35	4.58	4.58
Total Regional Campuses	\$23.54	\$1.74	\$2.37	\$27.65	\$27.65
OARDC					
State Appropriations	.00	.00	21.70	21.70	21.70
Federal	.00	.00	7.60	7.60	7.60
All Other	.00	1.81	2.73	4.54	4.54
Total OARDC	\$.00	\$1.81	\$32.03	\$33.84	\$33.84
Total University					
State Appropriations	278.41	.00	61.23	339.64	339.64
Student Fees	163.33	5.13	.00	168.46	168.46
Other Resources	34.19	344.76	193.24	572.19	572.19
Total University	\$475.93	\$349.89	\$254.47	\$1,080.29	\$1,080.29

THE OHIO STATE UNIVERSITY
 1989-90 CURRENT FUNDS BUDGET
 1ST QUARTER REPORT

All Funds Uses Summary
 (In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1989-90	Budgeted 1989-90
Central Campus					
Educational & General	\$451.60	\$33.37	\$204.18	\$689.15	\$689.15
Auxiliary Enterprises					
Residence & Dining Halls	.00	38.65	.00	38.65	38.65
Intercollegiate Athletics	.00	17.93	4.00	21.93	21.93
Other Auxiliaries	.79	31.23	.00	32.02	32.02
Total Auxiliaries	\$.79	\$87.81	\$4.00	\$92.60	\$92.60
University Hospitals	.00	225.05	11.89	236.94	236.94
Total Central Campus	\$452.39	\$346.23	\$220.07	\$1,018.69	\$1,018.69
Regional Campuses					
Agricultural Technical Institute	5.03	.78	.76	6.57	6.57
Lima Campus	5.00	.08	.41	5.49	5.49
Mansfield Campus	4.49	.05	.40	4.94	4.94
Marion Campus	4.25	.03	.46	4.74	4.74
Newark Campus	4.77	.57	.34	5.68	5.68
Total Regional Campuses	\$23.54	\$1.51	\$2.37	\$27.42	\$27.42
OARDC	.00	1.81	32.03	33.84	33.84
Total Uses	\$475.93	\$349.55	\$254.47	\$1,079.95	\$1,079.95

THE OHIO STATE UNIVERSITY
 1989-90 CURRENT FUNDS BUDGET
 1ST QUARTER REPORT

Distribution of 1989-90 Resources
 Central Campus, Regional Campuses & OARDC
 (In Millions of Dollars)

	All Funds	Percent of Total	Unrestr. General(4)	Percent of Total
State Appropriations	\$339.64	31.4%	\$278.41	58.5%
Federal Grants & Contracts	110.48	10.2%	17.28	3.6%
Other Government Sources	29.37	2.7%	1.11	.2%
Student Fees				
Instructional (1)	163.33	15.1%	163.33	34.3%
Non-Credit Instruction	5.13	.5%	.00	.0%
Hospitals Sales / Services	222.45	20.6%	.00	.0%
Other Sales / Services (2)	115.02	10.6%	.42	.1%
Private Gifts & Grants	61.86	5.7%	3.96	.8%
Endowment	10.35	1.0%	1.55	.3%
Other Sources (3)	22.66	2.1%	9.87	2.1%
Total	\$1,080.29	100.0%	\$475.93	100.0%

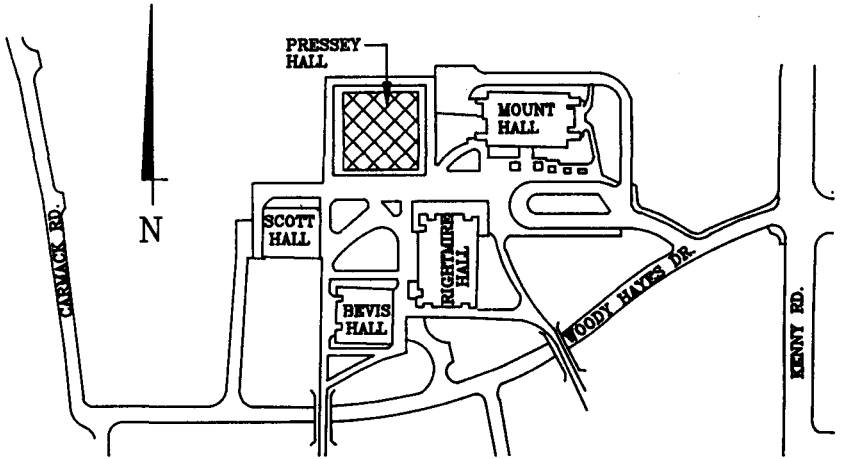
- (1) Includes instructional, general, non-resident, and misc. other fees.
- (2) Includes departmental sales and services and auxiliary income such as residence and dining hall fees and parking fees.
- (3) Includes temporary investments, prior years' earnings, rental income, etc.
- (4) Excludes all earnings and restricted funds.

APPENDIX XXVII

PRESSEY HALL - OFFICE OF CAREER DEVELOPMENT

**Adopted by the Board of Trustees November 3, 1989
(See page 412)**

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)**

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

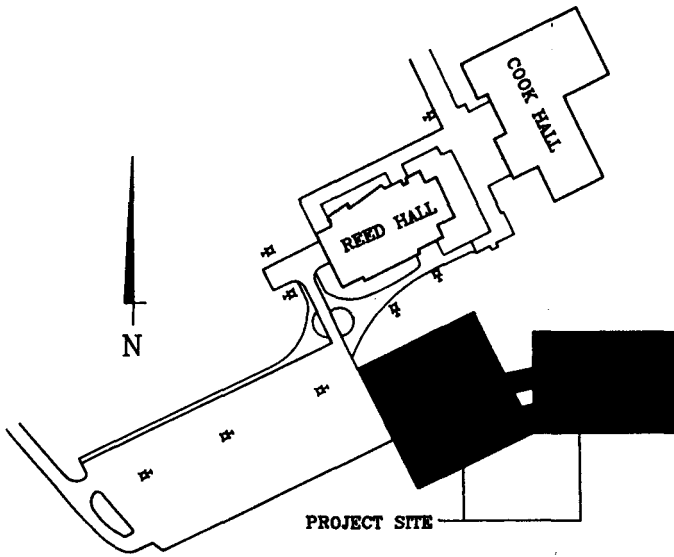
LIMA REGIONAL CAMPUS - REED HALL PARKING LOT ADDITION

Tabulation of Bids

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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>E. J. Meyer #</u>	<u>Degen Excavating</u>
Base Bid	\$142,794.00	\$125,069.30	\$125,675.70
Alt. G-1 (2" asphalt over gravel)	\$55,437.50	30,764.60	32,345.70
Total General Contract	\$198,231.50	\$155,833.90	\$158,021.40
Alternates Not Taken:			
Alt. G-2 (Add 1" overlay)	\$20,000.00	\$20,265.00	\$21,282.40

LIMA REGIONAL CAMPUS
REED HALL PARKING
LOT ADDITION



OFFICE OF BUSINESS AND ADMINISTRATION
NOVEMBER 3, 1989

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APPENDIX XXVIV

**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**

**Adopted by the Board of Trustees November 3, 1989
(See page 414)**

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

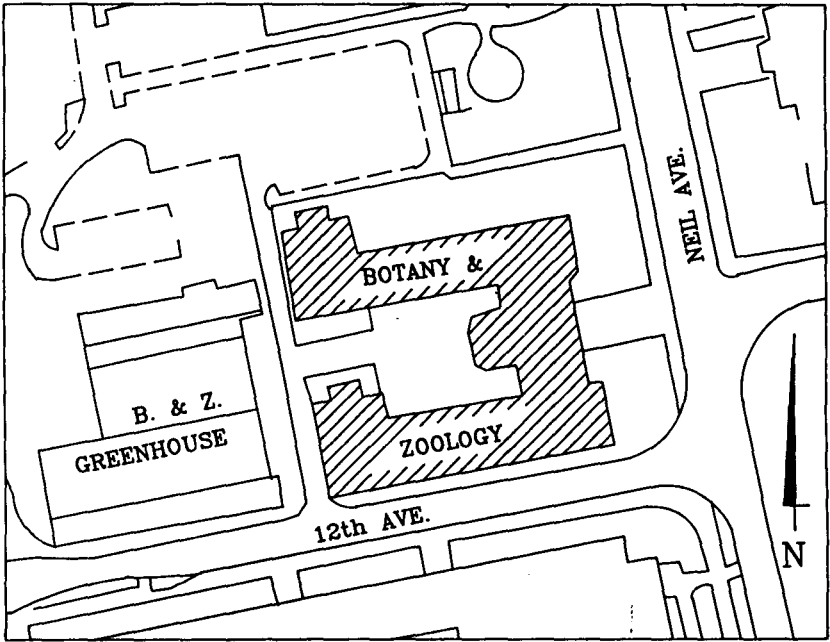
MASONRY IMPROVEMENTS - BOTANY & ZOOLOGY BUILDING

Tabulation of Bids

Bids received by The Ohio State University on July 18, 1989. Bids opened by Tamara Bell and tabulated by Ray Vanscik. Awards indicated with an "*".

<u>General Contract</u>	<u>Estimate</u>	<u>H. K. Phillips *</u>	<u>Trisco System</u>	<u>Western Waterproof</u>
Base Bid	\$194,400.00	\$189,675.00	\$228,726.00	\$237,686.00
Total General Contract	\$194,400.00	\$189,675.00	\$228,726.00	\$237,686.00

MASONRY IMPROVEMENTS
BOTONY AND ZOOLOGY BUILDING



OFFICE OF BUSINESS AND ADMINISTRATION
NOVEMBER 3, 1989

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

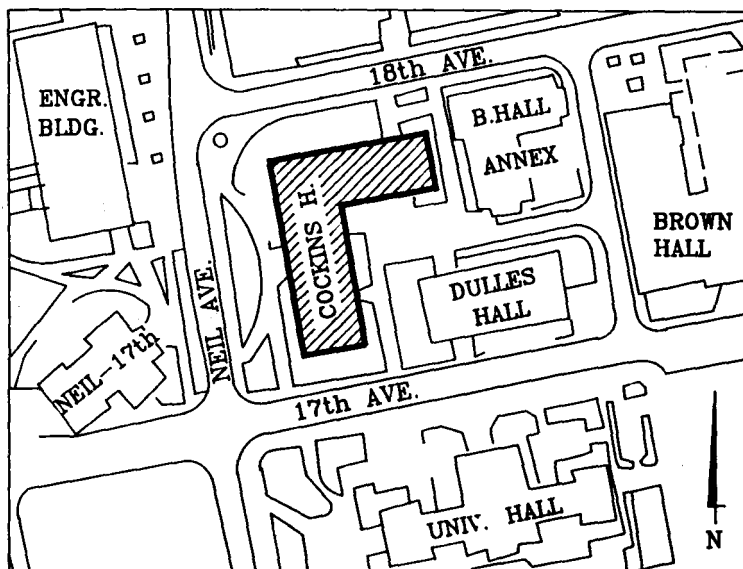
MASONRY IMPROVEMENTS - COCKINS HALL

Tabulation of Bids

Bids received by The Ohio State University on July 18, 1989. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Trisco *</u>	<u>General Maint.</u>
Base Bid	\$48,000.00	\$36,582.00	\$39,998.00
Total General Contract	\$48,000.00	\$36,582.00	\$39,998.00

MASONRY IMPROVEMENTS COCKINS HALL



OFFICE OF BUSINESS AND ADMINISTRATION
NOVEMBER 3, 1989

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

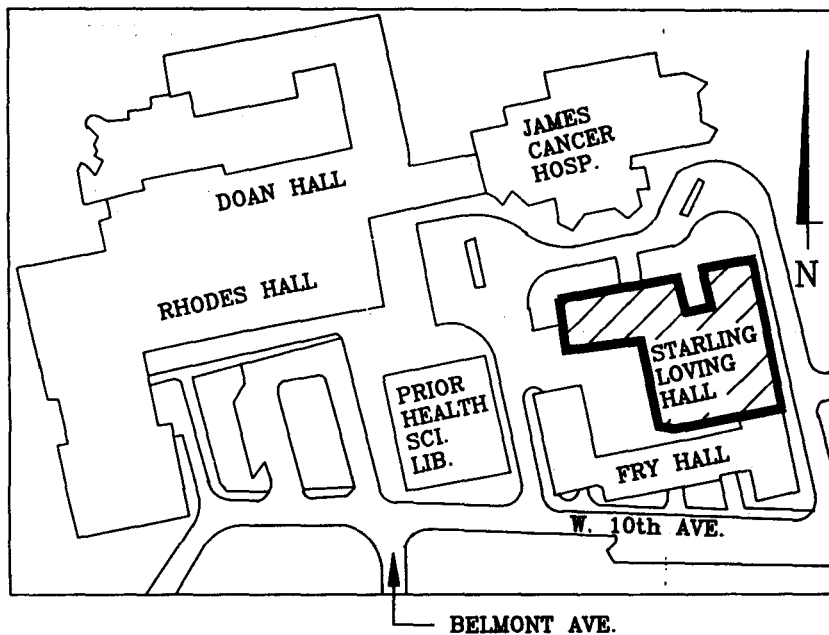
STARLING-LOVING HALL PATHOLOGY PHOTO STUDIO AND MICROSCOPY LAB.

Tabulation of Bids

Bids received by The Ohio State University on October 3, 1989. Bids opened by Tamara Bell and tabulated by Ray Vanscik. Awards indicated with an "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Williamson *</u>	<u>Navarro</u>	<u>Cargile</u>	<u>McClellan</u>
Base Bid	\$133,100.00	\$87,600.00	\$88,360.00	\$97,333.00	\$99,736.00
Total General Contract	\$133,100.00	\$87,600.00	\$88,360.00	\$97,333.00	\$99,736.00
<u>General Contract (Cont.)</u>	<u>Rico</u>				
Base Bid	\$119,876.00				
Total General Contract	\$119,876.00				
<u>Plumbing Contract</u>	<u>Estimate</u>	<u>McClellan *</u>	<u>Lincoln Mandeville</u>	<u>Ro-Dan</u>	<u>Williamson</u>
Base Bid	\$55,900.00	\$32,393.00	\$43,769.00	\$47,000.00	\$48,730.00
Total Plumbing Contract	\$55,900.00	\$32,393.00	\$43,769.00	\$47,000.00	\$48,730.00
<u>HVAC Contract</u>	<u>Estimate</u>	<u>Williamson *</u>	<u>Lincoln Mandeville</u>	<u>McClellan</u>	<u>Ro-Dan</u>
Base Bid	\$61,200.00	\$95,200.00	\$98,800.00	\$110,516.00	\$116,000.00
Total HVAC Contract	\$61,200.00	\$95,200.00	\$98,800.00	\$110,516.00	\$116,000.00
<u>HVAC Contract (Cont.)</u>	<u>Edmonds</u>				
Base Bid	\$123,000.00				
Total HVAC Contract	\$123,000.00				
<u>Electric Contract</u>	<u>Estimate</u>	<u>Advantage *</u>			
Base Bid	\$48,500.00	\$53,200.00			
Total Electric Contract	\$48,500.00	\$53,200.00			

STARLING - LOVING HALL
PATHOLOGY PHOTO STUDIO
AND MICROSCOPY LAB



OFFICE OF BUSINESS AND ADMINISTRATION
NOVEMBER 3, 1969

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

PIKETON 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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Sargents *</u>	<u>M Constr.</u>	<u>Vesta</u>	<u>King</u>
Base Bid	\$2,205,400.00	\$2,133,400.00	\$2,173,000.00	\$2,273,000.00	\$2,377,200.00
Total General Contract	\$2,205,400.00	\$2,133,400.00	\$2,173,000.00	\$2,273,000.00	\$2,377,200.00

Alternates not taken:

Alt. G-1 (Greenhouse Bay)	\$53,564.00	\$28,570.00	\$31,900.00	\$26,000.00	\$36,100.00
Alt. G-2 (Entrance Paving)	31,400.00	98,800.00	92,200.00	85,000.00	85,800.00
Alt. G-4 (Bldg. Addition)	67,242.00	50,960.00	47,200.00	51,300.00	56,500.00
Alt. G-5 (Gravel Paving)	6,910.00	28,600.00	27,400.00	9,500.00	13,200.00
Alt. G-6 (Storage Bldg.)	43,630.00	51,200.00	42,700.00	40,000.00	53,100.00
Alt. G-7 (Greenhouse Bay)	53,564.00	28,570.00	31,900.00	26,000.00	36,100.00

General Contract (Cont.) Debccon

Base Bid	\$2,887,700.00
Total General Contract	\$2,887,700.00

Alternates not taken:

Alt. G-1 (Greenhouse Bay)	\$35,000.00
Alt. G-2 (Entrance Paving)	100,000.00
Alt. G-4 (Bldg. Addition)	87,000.00
Alt. G-5 (Gravel Paving)	11,000.00
Alt. G-6 (Storage Bldg.)	150,000.00
Alt. G-7 (Greenhouse Bay)	35,000.00

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

PIKETON AGRICULTURE RESEARCH AND EXTENSION CENTER (CONT.)

Tabulation of Bids

<u>Plumbing Contract</u>	<u>Estimate</u>	<u>Stockmeister *</u>	<u>Crosen</u>	<u>Radico</u>	<u>Mechanical Constr.</u>
Base Bid	\$172,200.00	\$295,694.00	\$297,787.00	\$302,200.00	\$302,985.00
Total Plumbing Contract	\$172,200.00	\$295,694.00	\$297,787.00	\$302,200.00	\$302,985.00
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.) <u>Grandview</u>					
Base Bid	\$315,000.00				
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

<u>HVAC Contract</u>	<u>Estimate</u>	<u>General *</u>	<u>Mechanical Constr.</u>	<u>Stockmeister</u>	<u>Radico</u>
Base Bid	\$246,900.00	\$357,280.00	\$369,995.00	\$381,950.00	\$384,400.00
Total HVAC Contract	\$246,900.00	\$357,280.00	\$369,995.00	\$381,950.00	\$384,400.00

Alternates not taken:

Alt. H-1 (Greenhouse Bay)	\$256.00	\$2,450.00	\$2,650.00	\$1,795.00	\$2,500.00
Alt. H-4 (Building Addn.)	8,200.00	6,000.00	4,395.00	8,500.00	8,000.00
Alt. H-7 (Greenhouse Bay)	256.00	750.00	775.00	820.00	850.00

<u>HVAC Contract (Cont.)</u>	<u>J. A. GUY</u>	<u>Farber</u>
Base Bid	\$400,000.00	\$407,000.00
Total HVAC Contract	\$400,000.00	\$407,000.00

Alternates not taken:

Alt. H-1 (Greenhouse Bay)	\$1,000.00	\$2,600.00
Alt. H-4 (Building Addn.)	7,000.00	8,100.00
Alt. H-7 (Greenhouse Bay)	1,000.00	800.00

<u>Electric Contract</u>	<u>Estimate</u>	<u>Reco *</u>	<u>Jarrell</u>	<u>W. Construction</u>	<u>S.O.S.</u>
Base Bid	\$223,200.00	\$199,900.00	\$231,935.00	\$234,000.00	\$289,970.00
Total Electric Contract	\$223,200.00	\$199,900.00	\$231,935.00	\$234,000.00	\$289,970.00

Alternates not taken:

Alt. E-1 (Greenhouse Bay)	\$2,450.00	\$2,100.00	\$2,893.00	\$1,346.00	\$1,017.00
Alt. E-4 (Building Addn.)	2,589.00	5,200.00	5,569.00	4,674.00	9,800.00
Alt. E-5 (Serv. to Barns)	5,895.00	3,550.00	3,680.00	3,982.00	4,680.00
Alt. E-6 (Storage Bldg.)	4,970.00	2,800.00	3,029.00	3,138.00	3,590.00
Alt. E-7 (Greenhouse Bay)	2,450.00	2,300.00	2,893.00	1,275.00	1,060.00

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

PIKETON AGRICULTURE RESEARCH AND EXTENSION CENTER (CONT.)

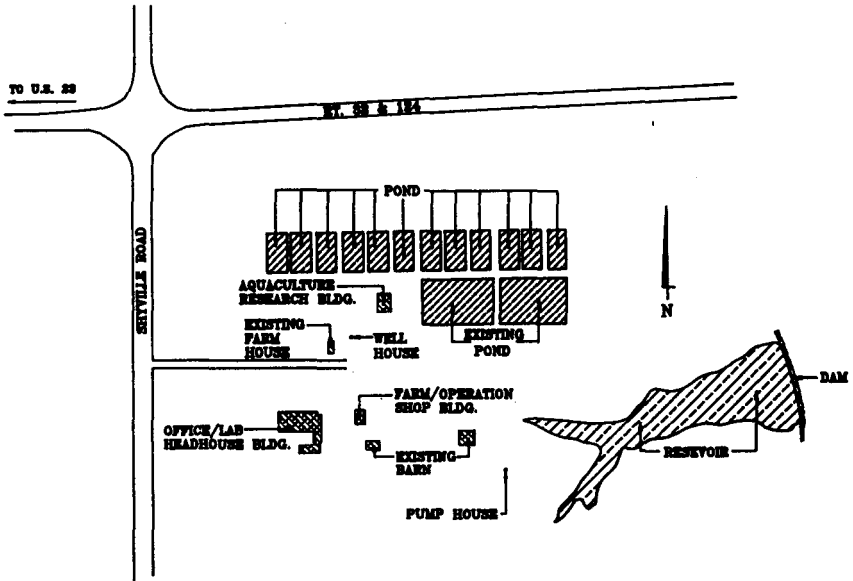
Tabulation of Bids

Electric Contract (Cont.)	<u>Westend</u>
Base Bid	\$298,000.00
Total Electric Contract	\$298,000.00

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 Bell and tabulated by Raymond Vanscik. Awards indicated with an "**".

<u>General Contract</u>	<u>Estimate</u>	<u>Cody Ziegler *</u>	<u>Cleveland</u>	<u>Peterson</u>	<u>Altman</u>
Base Bid	\$581,902.00	\$627,000.00	\$638,200.00	\$713,500.00	\$748,663.00
Alt. G-1 (A/C Upgrade)	20,155.00	26,700.00	35,500.00	28,500.00	27,551.00
Total General Contract	\$602,057.00	\$653,700.00	\$676,212.00	\$742,000.00	\$776,214.00

Alternates not taken:

Alt. G-2 (Lift)	\$14,000.00	\$27,000.00	\$16,340.00	\$22,000.00	\$23,283.00
Alt. G-3 (1st Fl. Offices)	26,132.00	19,000.00	29,600.00	39,000.00	24,358.00
Alt. G-4 (2nd Fl. Renov.)	62,889.00	63,700.00	48,300.00	59,000.00	59,015.00
Alt. G-5 (Member's Lounge)	7,204.00	9,700.00	3,850.00	6,100.00	5,631.00
Alt. G-7 (Roof Screening)	17,350.00	57,000.00	26,300.00	30,000.00	32,574.00

<u>General Contract (Cont.)</u>	<u>Gutknecht</u>	<u>Functional</u>
Base Bid	\$752,000.00	\$772,343.00
Alt. G-1 (A/C Upgrade)	31,000.00	31,588.00
Total General Contract	\$783,000.00	\$803,931.00

Alternates not taken:

Alt. G-2 (Lift)	\$22,000.00	\$20,000.00
Alt. G-3 (1st Fl. Offices)	30,000.00	21,000.00
Alt. G-4 (2nd Fl. Renov.)	57,000.00	60,600.00
Alt. G-5 (Member's Lounge)	7,000.00	5,600.00
Alt. G-7 (Roof Screening)	29,000.00	32,000.00

<u>Plumbing Contract</u>	<u>Estimate</u>	<u>Radico *</u>	<u>J. A. Croson</u>	<u>Marco</u>
Base Bid	\$277,000.00	\$254,800.00	\$263,889.00	\$269,000.00
Alt. P-1 (A/C Upgrade)	3,000.00	2,100.00	2,300.00	2,100.00
Total Plumbing Contract	\$280,000.00	\$256,900.00	\$266,189.00	\$271,100.00

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

FACULTY CLUB IMPROVEMENTS (CONT)

Tabulation of Bids

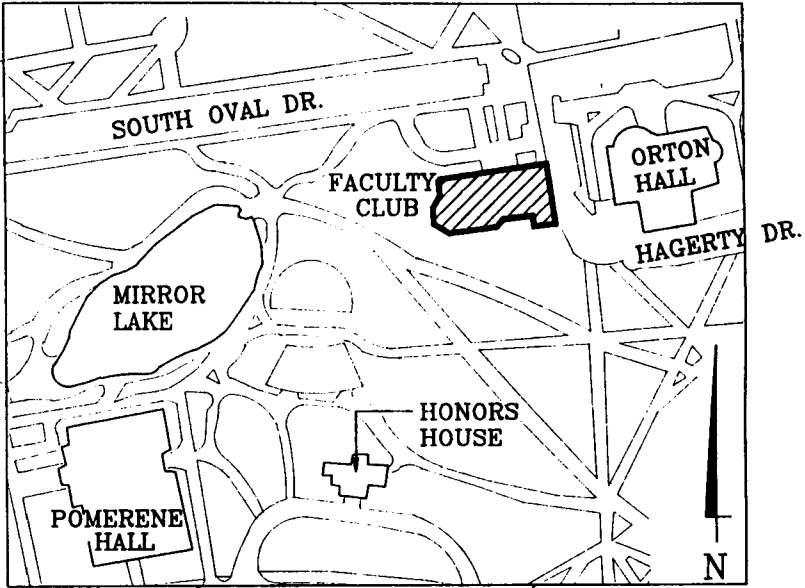
<u>HVAC Contract</u>	<u>Estimate</u>	<u>Radico *</u>	<u>Farber</u>
Base Bid	\$310,000.00	\$292,000.00	\$287,100.00
Alt. H-1 (A/C Upgrade)	125,000.00	116,200.00	129,900.00
Total HVAC Contract	\$435,000.00	\$408,200.00	\$417,000.00

<u>Electric Contract</u>	<u>Estimate</u>	<u>Newco *</u>	<u>Claggett</u>	<u>Claypool</u>	<u>Electric Power</u>
Base Bid	\$198,480.00	\$203,000.00	\$207,400.00	\$200,350.00	\$280,600.00
Alt. E-1 (A/C Upgrade)	20,000.00	17,400.00	13,620.00	26,350.00	52,600.00
Total Electric Contract	\$218,480.00	\$220,400.00	\$221,020.00	\$226,700.00	\$333,200.00

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	18,400.00
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

FACULTY CLUB IMPROVEMENTS



OFFICE OF BUSINESS AND ADMINISTRATION
NOVEMBER 3, 1989

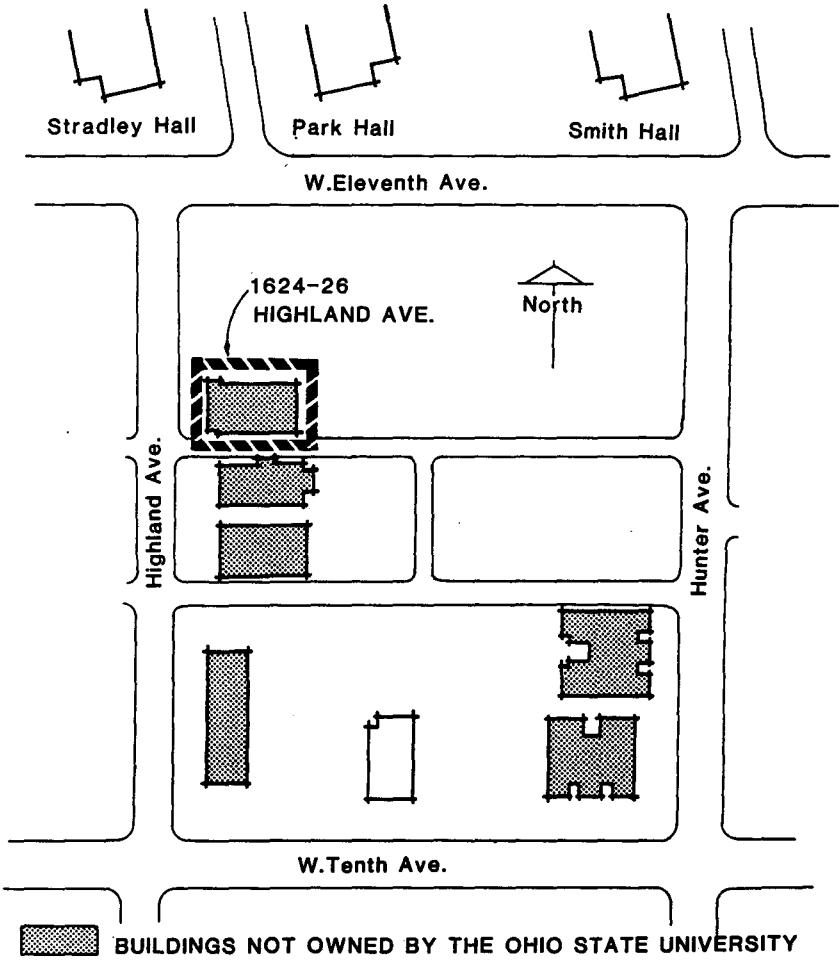
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APPENDIX XXX

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



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. LEONARD CAMERA CENTER
MANAGEMENT CONTRACT**

Executive Summary

Recommendation

OSU Hospitals is recommending approval of a 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

**J. LEONARD CAMERA CENTER
MANAGEMENT CONTRACT**

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

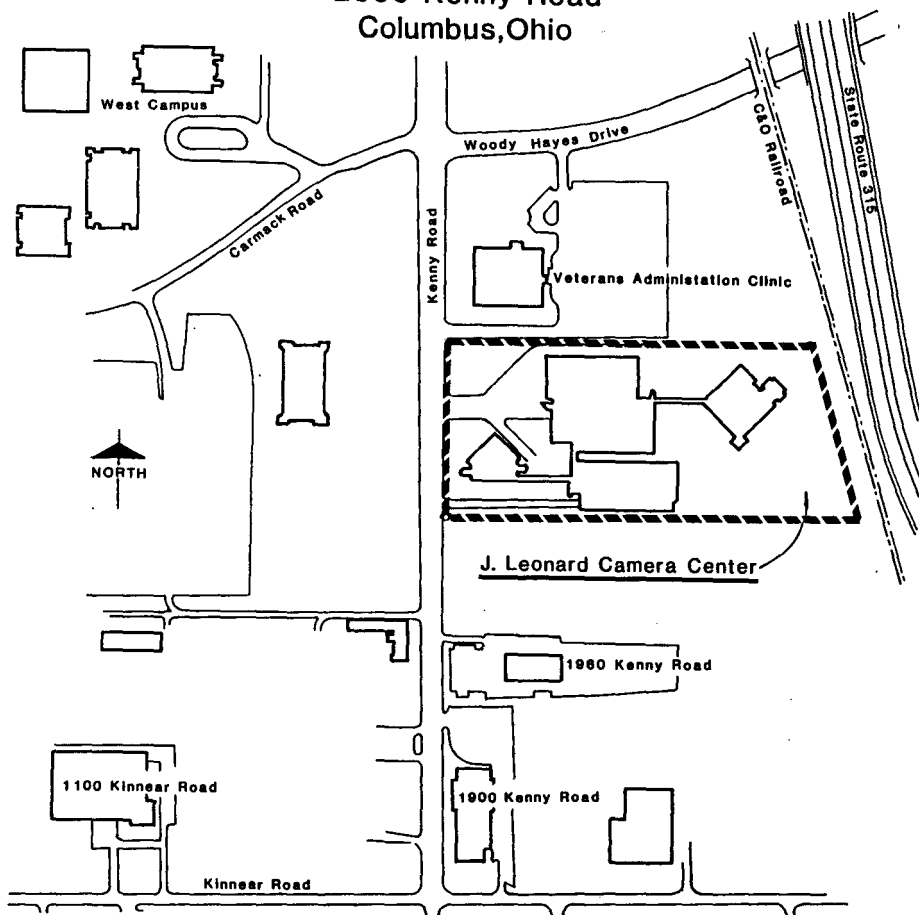
OSU Hospitals will also install in the Camera Center five rehabilitation administration professionals as a management team:

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

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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

<u>Account Description</u>	<u>Account Number</u>	<u>Transfer From A/C Number</u>	<u>Amount</u>
<u>ENDOWMENT FUNDS</u>			
Endowment Clearing Account	070002	015039	33,866.00
Endowment Clearing Account	070002	022970	95.00
Endowment Clearing Account	070002	024526	5,000.00
Endowment Clearing Account	070002	037864	2,500.04
Friends of WOSU Endowment Fund	072324	033227	16,538.88
The Baker & Hostetler Law Library and Building Fund	072498	051506	5,000.00
The Baker & Hostetler Law Library and Building Fund	072498	051507	423,036.90
The Historic Costume & Textiles Collection Fund	073208	037675	30,000.00
Kurtz Chairs	073854	023854	214,732.50
The Helen Simpson Lambacher Fund	073900	050447	3,000.00
Ohio Eminent Scholar in Industrial Microbiology	075353	032360	50,000.00
Ohio 4-H Foundation Fund	075354	033590	135.00
OSU Name & Seal Scholarship Fund	075427	015102	670,000.00
Pharmacy Advancement	075725	050520	(22,500.00)
Thomas E. Powers Veterinary Clinical Pharmacology	075899	036960	15,000.00
Helen Hooven Santmyer Fund	076274	011045	35,317.90
Texnikoi-Arthur C. Avril Endow Fund	077182	035457	218,167.00
Transport Research Ctr Research Fund	077323	050566	557,427.00
Unrestricted Gifts	077435	015018	500.00
Various Endowment Funds	07XXXX	02XXXX	711,813.19

Total Transfers to Endowment Principal Funds			\$ 2,969,629.41

<u>To: LOAN FUNDS</u>			
Transferred from Current Funds	079000	015800	(9,474.00)
Emergency Loans-ATI	079991	033230	(1,842.00)
Emergency Loans-ATI	079991	038375	2,500.00

Total Transfers to Loan Funds			\$ (8,816.00)

Non-Mandatory Transfers from Current Funds
Fiscal Year 1988-1989

Account Description	Account Number	Transfer From A/C Number	Amount
<u>To: ANNUITY AND LIFE INCOME FUNDS</u>			
H.W.Almen Annuity & Life Income Fund	077961	038191	(380.03)
Total Transfers to Annuity and Life Income Funds			\$ (380.03)
<u>To: PLANT FUNDS</u>			
<u>Unexpended</u>			
Land Purchases	082027	010000	1,300,000.00
Land Purchases	082027	016300	74,947.64
OARDC Gnotobiotic Lab	082068	011467	89,501.49
Law BUILDING Additions Plans	082073	038023	(13,399.16)
Bee Lab Replacement	082077	010000	12,959.50
Lima Parking Lot	082084	016008	1,049.12
Total Transfers to Unexpended Plant Funds			\$ 1,465,058.59

Renewal and Replacement Funds -
Remodeling and Renovation

Bradford	085047	017200	21,131.00
Dorm Contingency Fund	085049	017200	7,004,440.15
Archer/Oxley Improvement	085050	017200	89,826.00
Parking Ramp Repair	085175	016007	25,000.00
South Medical Parking Ramp Repairs	085176	016007	(5,000.00)
Northwest Parking Ramp Repairs	085177	016007	(10,000.00)
Mendenhall - Cold Room	085193	010000	(13,022.00)
North Medical Parking Ramp	085269	016007	10,000.00
1224 Kinnear Road	085290	057236	714,193.00
Eleventh Avenue Ramp Repairs	085307	016007	(10,000.00)
Veterinary Science Facility	085311	010000	250,000.00
Conard Gallery - Mansfield	085314	037965	110,000.00
Law Building Locker Room	085335	010000	28,052.00
1986 Gen Receipt Bond Constrn Fund	085350	017200	243,080.00
Arps Ramp Addition	085375	010000	20,446.00
AM Night Transmitter	085376	033227	50,783.13
Vet Absorption Chiller	085386	010000	198,000.00
Civil & Aero Computer Lab	085394	010000	(13,470.27)
Johnston Lab Renovation	085397	010000	633.00
Library Project 2848 AR	085428	015103	35,422.00
Student Life Renovation	085429	010000	6,446.00

Non-Mandatory Transfers from Current Funds
Fiscal Year 1988-1989

Account Description	Account Number	Transfer From A/C Number	Amount
<u>Renewal and Replacement Funds - Remodeling and Renovation</u>			
Central Service Bldg Renovation	085446	010000	14,263.93
Arps Garage Repairs	085465	016007	(20,000.00)
12th Avenue Garage Repairs	085467	016007	(10,000.00)
Ives Hall Remodeling	085468	010000	29,500.00
Denney Hall Renovation-Room 161	085470	010000	1,600.00
Food Service Consulting	085494	017200	11,690.75
Project 3155AR-Townsend Hall	085498	010000	800.00
Project 3141 AR - Lincoln Tower	085504	010000	27,046.00
Ohio Union-Loading Dock Prj 2856	085512	016020	(109,994.83)
Proj 2964AR/SB-Service Building Annex	085513	010000	82,750.00
Eminent Scholar-Microbiology Project	085515	010000	285,000.00
Proj 3284-Ohio Union Cop-ez Store	085517	014030	32,050.00
Project 3192 AR - Sisson Hall	085518	010000	325.00
Proj 3124AR/GW-Evans Lab Room 1013	085519	010000	29,476.00
Hagerty Hall Air Con Prj 3299	085520	022875	8,372.00
Proj 2953-Veterinary Hospital	085521	050130	35,459.00
Proj 3136AR Robinson Lab	085523	010000	33,500.00
Postle Hall - Pre-Clinic Lab	085524	010000	25,000.00
Grape Research Facility-OARDC	085525	011467	20,000.00
Proj 3318-Bevis Hall Renovation	085526	010000	74,966.00
Taylor Tower-Project 3280AR	085528	017200	53,700.00
Proj 3158-ATI Swine Nursery	085530	011424	40,300.00
Plumb Hall-Project 3157AR	085535	038602	2,000.00
Proj 3364AR CAE Room 422	085537	010000	32,800.00
Proj 2874-Net Shape Lab Remodeling	085538	010000	83,000.00
Proj 3305AR B-Z Renovate Rooms	085539	010000	58,500.00
Proj 3386AR Print Facility-Roof Repl	085540	014002	10,000.00
Renovation of McPherson Lab	085541	010000	221,577.00
Lazenby Hall Renovation	085543	010000	24,648.00
MacQuigg Waterproof	085544	010000	1,687.24
Proj 3315/3332AR Ohio Stadium Renov	085545	010000	57,500.00
Proj 3337AR Johnston Lab Room 209M	085546	010000	25,149.00
B & Z Bldg Project 3428/Room 50	085551	010000	49,500.00
1121 Kinnear Road Project 3375AR	085552	010000	16,960.66
1121 Kinnear Road Project 3375AR	085552	014033	16,960.67
1121 Kinnear Road Project 3375AR	085552	057236	16,960.67
Botany & Zoology Lab	085556	014110	802.79
Mount Hall Project 3447	085557	010000	51,450.00
Photo Lab Project 3496	085560	010000	76,300.00
Photo Lab Project 3496	085560	020227	5,000.00
Photo Lab Project 3496	085560	032580	5,000.00
Photo Lab Project 3496	085560	057256	22,200.00
Postle Hall-Oral Biology	085561	021691	10,000.00

Non-Mandatory Transfers from Current Funds
Fiscal Year 1988-1989

Account Description	Account Number	Transfer From A/C Number	Amount
<u>Renewal and Replacement Funds - Remodeling and Renovation</u>			
St John Store Project 3231AR	085562	016019	26,700.00
St John Project 3421AR/107	085567	016019	33,670.00
Asbestos Abatement	085570	010000	14,043.00
Postle Hall Project 3483AR	085571	034947	50,000.00
Hitchcock Hall Project 3575AR	085574	012911	47,000.00
Water Resources Center Project 3559AR	085575	010000	100,000.00
Kottman Hall Project 3438AR	085576	024515	99,175.00
Total Remodeling and Renovation			<u>10,580,347.89</u>

To: PLANT FUNDS

<u>Renewal and Replacement Funds - Repairs and Replacements</u>			
University Architects Equipment Resrv	086804	010000	(30,000.00)
Mershon Building Reserve Fund	086805	024919	125,000.00
Child Care Center Equipment Reserve	086807	011086	94,000.00
Child Care Center Plant Reserve	086808	011086	60,000.00
Capital Projects	086899	010000	2,550,000.00
Admissions-Equipment Reserve	086904	010000	1,560.00
Business Management Equipment Reserve	086907	010000	30,000.00
Physical Facility Equipment Reserve	086909	010000	(319,483.98)
Police Equipment Reserve	086910	010000	(116,336.00)
Traffic & Parking Equipment Reserve	086911	016007	104,700.00
Equipment Repair Reserve	086915	014027	17,535.00
Physical Facility Reserve	086920	010000	(42,355.12)
Fire Prevention - Equipment Reserve	086923	010000	(10,489.50)
Endowment Property Improv Reserve	086931	010190	1,734.00
Telecommunication Equipment Reserve	086938	011064	240,000.00
Internal Audit Equipment Reserve	086944	010000	(15,000.00)
Center for Teaching Excellence Resrv	086945	010000	(25,099.05)
Accounts Payable Equipment Reserve	086954	010000	48,750.00
Ohio Union - Improvement Reserve	086963	010000	(13,488.00)
Ohio Union-Improvement Reserve	086963	016020	202,595.00
Transportation Reserve	086964	010000	30,000.00
Lantern Equipment Reserve	086968	011081	91,000.00
Public Safety Equipment Reserve	086971	010000	4,830.00
Registrar Equipment Reserve	086975	010000	50,000.00
Air Transport Service Reserve	086976	014029	(18,000.00)
Contracts Administration Equip Resrv	086977	010000	(25,000.00)
OER Improvement Reserve	086981	014027	1,018.00
Finance Equipment Reserve	086982	010000	100,000.00

Non-Mandatory Transfers from Current Funds
Fiscal Year 1988-1989

<u>Account Description</u>	<u>Account Number</u>	<u>Transfer From A/C Number</u>	<u>Amount</u>
Renewal and Replacement Funds - Repairs and Replacements			
Recreation/Intramural Equip Reserve	086984	010000	35,000.00
Student Affairs - Equipment Reserve	086985	010000	51,415.53
Student Affairs - Equipment Reserve	086985	016020	5,240.65
University Systems Equipment Reserve	086990	014033	185,000.00
University College Equipment Reserve	086992	010000	110,000.00
Cash Advances-Clearing	086993	011083	50,000.00
Univ. Hospital Capital Equipment	086995	033387	5,000.00
Univ. Hospital Capital Equipment	086995	019000	3,259,580.94
Veterinary Pathobiology	086996	010000	125,730.00
Veterinary Pathobiology	086996	015109	14,500.00
Plant Funds General	086999	014010	(31,250.00)
Total Repairs and Replacements			\$ 6,947,687.47
Total Transfers to Renewal and Replacement Funds			\$17,528,035.36
Retirement of Indebtedness			
Debt Service - HC #3	087003	017300	2,106,915.70
Debt Service Reserve - HC #3	087004	017300	(271,250.00)
Bond Redemption - HC #3	087005	017300	(21,402.56)
1986 Debt Service Pool	087063	016007	221,766.00
1986 Debt Service Pool	087063	016019	174,203.08
Total Transfers to Retirement of Indebtedness			\$ 2,210,232.22

Non-Mandatory Transfers from Current Funds
Fiscal Year 1988-1989

Account Description	Account Number	Transfer From A/C Number	Amount
<u>Investment in Plant</u>			
Construction-in-Progress	088500	019982	6,596,093.00
Total Transfers to Investment in Plant			\$ 6,596,093.00
			=====
Total Transfers to Plant Funds			\$27,799,419.17
			=====
Grand Total Non-Mandatory Transfers From Current Funds			\$30,759,852.55
			=====

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APPENDIX XXXIII

Degrees Conferred at

THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION

December 8, 1989

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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.

Recipients 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 fund-raising 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.

The Graduate School

Dean: Roy A. Koenigsnecht

Doctor of Musical Arts

Cynthia Renee Coleman, Salem, VA; B.A. (Hollins College, Virginia); M.M. (University of Maryland); *Music*
Dr. Helen C. Swank

Thomas Andrew Gregg, Columbus; B.M. (Capital University); M.M. (University of Michigan); *Music*
Dr. Helen C. Swank

Ching-Jen Wu, Taiwan, R.O.C.; B.Mus. (National Taiwan Normal University); M.Mus. (Ohio University); *Music*
Dr. Rosemary Platt

Doctor of Philosophy

Bulent Abali, Ankara, Turkey; B.S. (Middle East Technical University, Ankara); M.S.; *Electrical Engineering*
Dr. F. Ozguner

Tarek Saad Amer, Gainesville, FL; B.S. (California State University, Chico); M.S. (Texas A&M University); *Accounting and Management Information Systems*
Dr. Andrew D. Bailey, Jr.

Abdelmoniem Mohamed Amin, Cairo, Egypt; B.S. (Cairo University); M.S.; *Civil Engineering*
Dr. Robert L. Sierakowski

Essam Fathi Ayoub, Cairo, Egypt; B.S., M.S. (Cairo University); *Engineering Mechanics*
Dr. Arthur W. Leissa

Andrey Susan Bahrlick, Delaware; B.A. (Ohio Wesleyan University); M.A., M.A.; *Psychology*
Dr. Theodore Kaul

Jeff David Tainatongo Barcinas, Merizo, Guam; B.S. (California State Polytechnic University); M.A. (Washington State University); *Agricultural Education*
Dr. J. David McCracken

Paul Leo Bartel, Parma; B.S. (University of Cincinnati); M.S.; *Microbiology*
Dr. Hari M. Strohl

Kanwaljit Bhatia, Lajpat Nagar, India; B.S. (University of Roorkee); M.S. (University of Manitoba); *Engineering Mechanics*
Dr. S. H. Advani

Daniel J. Birmingham, Columbus; B.S., M.S.; *Pathology*
Dr. Hari M. Sharna

Cynthia Story Bison, Paducah, KY; B.A., M.A. (Murray State University); *History*
Dr. John A. Rothney

Jennifer Ann Bogner, North Ridgeville; B.S. (University of Maryland); M.A.; *Psychology*
Dr. David Hammer

Cynthia E. Bylander, Attleboro, MA; B.F.A. (University of South Dakota); M.A.; *Music*
Dr. Margarita Mazo

Joseph John Calabrese, Columbus; B.A. (State University of New York at Albany); M.S.; *Physics*
Dr. James Garland

Ayşe Can, Ankara, Turkey; M.C.R.P., M.A.; *Geography*
Dr. Emilio Casetti

Maria Eugenia Casanueva, Concepción, Chile; *Entomology*
Dr. Donald E. Johnston

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Kay Frances Oiler, Pataskala
Angela Marie Phillips, Marion
Randolf Reder, Columbus
Karen Beth Schneider, Cincinnati
Dorian Inskip Traynham, Marion

Bachelor of Music Education³

James Robert Athanasen, Girard
Lori Lynn Dunkle, Xenia
Lori Lynn McMillion, Sycamore
Carol Tammy Rand, Crestline
Amy Denise Whitehill, Fairborn

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
Theresa Elaine Baker, Madison
Brenda Charlene Berstler, Columbus
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

¹Offered by the College of the Arts

²Offered jointly by the College of the Arts and the College of Education

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Jayma Lynn Hatcher, Columbus
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Katherine Anne Holmes, Vermilion
Fredric Michael Hustey II, Columbus
Lorri Anne Jackson, Reynoldsburg
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Christine Kay Laskin, Mayfield Heights
Marin Howard McNally, Columbus
Beth Anne McNally, Columbus
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Stephen Joseph Rabe, Kettering
David Andrew Rings, Montpelier
Robert Leon Sharp, Toledo
Jeffrey Bryan Thuma, Strongsville
Larry M. Tincher, Jr., Northwood
Alex Valdez Trevino, San Antonio, TX
Mary Elizabeth Varner, Marion

College of Humanities

Dean: G. Micheal Riley

Bachelor of Arts

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Nader Ayish, Elyria
Heather Lynne Bain, Fairview Park
Laura Dowling Bolon, 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. Felkner, Columbus
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Howard Steven Fogle, Cincinnati
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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 Mariner, 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, Beavercreek
Shane Clay Shope, Columbus
Marcie Dyan Simkoff, University Heights

Thomas Eugene Sinclair, Columbus
Angela Gayle Slezak, Columbus
Cynthia Marie Slonaker, Columbus
David Todd Smith, Youngstown
Stephen Douglas Smith, Cleveland
Michelle Kathleen Speights,
Northport, NY
Douglas Leigh Trattner, Pepper Pike
Jane Elizabeth Utgard, Columbus
Victoria Jean Weals, Columbus
Michael Alva White, Tiffin
Sharon Elaine Will, Worthington
Susan Marie Wolfe, Philo
Diane Sheryl Wright, Mt. Vernon
Deborah Yun, Columbus

College of Mathematical and Physical Sciences

Dean: C. William Kern

Bachelor of Arts

Kimberlea Dianne Andrews, Columbus
Mark Allan Rehl, Westerville
Thomas Paul Zagore, Euclid

Bachelor of Science

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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 Gotke, Pataskala
James Russell Henery, New Lexington
Susan Robertson Keiff, Columbus
Barbara Jane Lubberger, Middletown
Gerardo Carmelo Palumbo, Corning, NY
Erwin Thomas Raphael, St. Croix, VI
Nancy Kaye Schimpf, New Washington
Eyal Shachar, Columbus
James Story Shoenfelt, Akron
Andrew Larry Swinehart, Nashport
Derek Scott Wheeler, Columbia, SC
Joo Hee Yoo, Seoul, Korea

College of Social and Behavioral Sciences

Dean: Joan Huber

Bachelor of Arts

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Betsy Jean Alton, Columbus
Lisa Michelle Anderson, Upper Arlington

Stephen W. Augenstein, Columbus
Joseph Edward Banicki, East Liverpool
Tracey Anne Barcus, Mt. Gilead
Patrick Joseph Barey, Columbus
Gary Steven Beckman, Columbus
Melody Lynn Bentley, Columbus
Marcia Lynne Boedeker, Columbus
Kevin Scott Bollinger, Zanesville
Vincent Michael Bonanno, Dayton
Suzanne Renee Bonecutter, Shelby
Marie Therese Borgner, Canton
Sherrie Lynn Bosley, Morral
Beth Anne Breece, Johnstown
Julie Lynn Brockhage, Cincinnati
James Patrick Brown, Lima
Brian Alan Bruce, Westerville
Mark Edward Bruns, Osgood
Kimberly Jo Burchett, West Jefferson
Michelle Marie Butcher, Lorain
Thomas Robert Castetter, Grove City
John Kent Chapman, Columbus
Timothy Henry Cole, Lima
William Michael Collier, Marion
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Jennifer Marie Curran, Shaker Heights
John Eric Daehler, Columbus
Thomas Philip Dauscher, Chardon
Stacey Jane Davidson, Columbus
Leslie Ann Dever, Pickerington
Karen Jane DeWeese, Grandview Heights
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Stephen Bruce Doucette, Cleveland Heights
William A. Dowling, Cleveland Heights
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Debbie Dee Jobe, Cardington
Jennifer Julia Kaechele, Pickerington
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Patricia Mary Klein, Dayton
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Kristine Elizabeth Kovach, Westerville
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John David Longo, Westerville
Leonard Joseph Longo, Hazlet, NJ
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Pauline Jan Loyd, Hinckley
John Charles Lyons, Youngstown
Paul MacCartney, Bexley
Nicholas Joseph Malagrecia, Columbus
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Kristan Terry Markopoulos, Warren
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Karen Sue McLin, Springfield
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 Michael Charles Schiefer, Worthington
 Jeffrey David Schrepferman, Centerville
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 Marshall Allan Siegel, South Euclid
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 Steven Henry Wierman, Canal
 Winchester
 Kevin Allen Williams, Pickerington
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 Tracie Helen Wood, Anderson
 Brian Scott Young, Columbus
 Jamey Katherine Zborowski, Columbus
 Nicholas Anthony Zeyen, Columbus
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Bachelor of Science

Nicole Marie Adimey, Kettering
 Marcus Brown, Tiffin
 Brian James Burson, Columbus
 Heidi Marija Carman, Gallipolis
 Susanne Crabtree, McDermott
 Curtis John Dynda, Parma
 Thomas Charles Eisele, Bexley
 Timothy Joseph Feldman, Columbus
 Mark Edward Frazier, Mt. Gilead
 Keith Bernard Key, Pittsburgh, PA
 Sharon Lynn Kruse, Ottawa
 Wesley Voris Lafferty, Brandon, FL
 Brian David MacLeod, Worthington
 Gerald Andrew McGinty, Mentor
 Joseph Andrew Mlachak, Cleveland
 Judy Nygate, Worthington
 Karen A. Orts, Monroe
 Donald Scott Powell, Wheelersburg
 Christopher Paul Renkel, Fairview Park
 Joan Marie Schmelzer, Rushville
 Jay Michael Schulman, Columbus
 William Aitken Turner III, Columbus
 William Ward Whittenberger, Jr.,
 Youngstown

Gregory Lee Williams, Atlanta, GA
 Douglas Clark Zimmerman, Boca
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School of Journalism

Bachelor of Arts in Journalism

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 Jacqueline Margaret Carletti, Upper
 Arlington
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 Susan Marie Davis, Reynoldsburg
 Paula Sue Dougherty, St. Clairsville
 Amy Michelle Drake, Upper Arlington
 Michele Ann Frye, Mt. Sterling
 Traci Lynn Gable, Springboro
 Christopher Anthony Garofoli, Shaker
 Heights
 Bradley Thomas Gecowets, Waverly
 Barbara Lynne Gerber, Lyndhurst
 Jeffrey John Gold, North Canton
 Shirley Patricia Gooding, Columbus
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 Ross N. Green, Chagrin Falls
 Mary Ellen Gress, Austin, TX
 Erika Beth Hanson, Columbus
 Kevin John Havens, Worthington
 Kristen Sue Hayes, Grove City
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 Mary Elizabeth Jacobs, Rutland
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 Tracy Lou James, Magnolia
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 Susan Yvette Lee, Dayton
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 Thomas John McHale, Webster, NY
 Leslie Gail Mendelsohn, Hastings-on-
 Hudson, NY
 Dean Gregory Moore, Cincinnati
 Beverly Ann Murphy, Gahanna
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 Steven Newman, Columbus
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 Jeane Christine Panik, Medina
 Jeffrey Scott Phillips, Dayton
 John Edward Powell, Jr., Newark
 John Clifton Pribble III, Columbus

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 Cheryl Lynn Sievert, Huntsville, AL
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 Kristy Diane VanKoughnet, Toledo
 Lynn Wagner, Columbus
 Steven Patrick Watson, West Carrollton
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 Mark Alan Wolbert, Bay Village
 Lois Teresa Wright, Columbus
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College of Agriculture

Acting Dean: J. Robert Warmbrod

Bachelor of Science in Agriculture

Scott Thomas Adkins, Laurel, MD
 Andrew Thomas Affeldt, Worthington
 Joel Edward Althausen, Kenton
 Denise Lynn Bailey, Galena
 E. Roger Banks, Franklin
 Christi Lynn Bentley, Sabina
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 James Douglas Dear, Columbus
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 Doreen Marie Dudek, Columbus
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 Leslie Rachel Elliott, St. Marys, WV
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 Alan Craig Garmatter, Rawson
 John Joseph Gasper, Worthington
 Christopher Glen Gerber, Whipple
 Michael Thomas Gibbs, Bellevue
 James Alan Ginther, Chillicothe
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 Martin Earl Hall, London
 Paul Edward Harris, Chagrin Falls
 Mark Clair Hartman, Rawson
 Cindy Arlene Hefner, Lima
 Steven Edward Hershsberger, Troy
 Judy Michele Hines, Wooster
 Lamar Lee Liming, Mineral Ridge
 Roger Allen Luhning, Sycamore
 Shelly Dee Maurer, Zoar
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 Matthew Wayne McCluer, Lima
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 Bruce A. Oberlitter, Kenton
 Randy Robert Samko, Columbus
 Jane Marie Schmuckler, Wooster

Scott William Sessler, Sandusky
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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 Swackhamer, Laurelville
Amanda Jeanne Talmadge, New Lebanon
Barry Joe Woodworth, South Vienna

Bachelor of Science in Food Science

Paul Michael Gigliotti, Amherst
Antoinette Sue Williams, Youngstown

Bachelor of Science in Food Technology

James Kenneth Watts, Massillon

School of Natural Resources

Bachelor of Science in Natural Resources

Jeffrey Scott Bender, Fremont
Daniel Ernest Burnett, Chardon
Stephanie Lynn Davidson, Columbus
Brian McCormick Davis, Dayton
Michael Scott Faler, Jackson Center
Diane Elaine Fitzgerald, Westerville
Jennifer Byerly Grusenmeyer, Beaver Creek
Stacy Lynn Katz, Columbus
Darryl Eugene Kosten, Euclid
Holly Beth Proudfoot, Centerville
Scott Michael Staut, Columbus
Bruce Richard Taylor, Lebanon
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Agricultural Technical Institute – Wooster

Associate in Applied Science

Philip Darr Birney, Jewett
Roy Edward Burdette, Akron
Timothy Neil Dayton, Carrollton
Jonathan L. Floyd, Springfield
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Steven J. Gerber, Kidron
Robert K. Gray, Stow
Rhonda Jo Harman, McConnellsville
John P. Kelling, Elyria
James Russell Kiko, Jr., Paris
Steven Edward Lantz, Newark
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Thomas Lee Mercer, Waterford
Annette Marie Michael, Fremont
Pamela Michelle Pojman, Columbia Station
Richard Allan Repp, Massillon

Randall Wayne Ruckel, Mansfield
Thomas Scott Ruh, Vermilion
Gretchen Ann Sieferth, Randolph
Mark A. Stackhouse, Ashland
Susan Marie Szabados, Macedonia

College of Business

Acting Dean: Astrid E. Merget

Bachelor of Science in Business Administration

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John P. Agdinaoy, Brecksville
Alisa Alaudini, Worthington
Bryan James Allen, Cambridge
John Gerard Amorosso, Reynoldsburg
Ann Christina Anstatt, Vincent
Mark Anthony Arms, Columbus
Daniel Dale Armstrong, Coshocton
Todd Paul Armstrong, Shelby
William Allen Arnold, Upper Sandusky
Steven Scott Arsulic, Ashtabula
Sharon Ann Atkins, South Euclid
Robert Michael Atkinson, Columbus
Keith Michael Aulby, Lima
Michael Richard Aulino, Akron
Mary Yvette Austin, Columbus
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Robert McNeese Bell, Jr., Centerville
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Brian Patrick Benyo, Austintown
Beth Ann Bickley, Sandusky
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John Christopher Blubaugh, Columbus
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Mary Janine 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 Mario Chirico, Mansfield
Karen L. Chism, Columbus
Chai Chong Chuah, Taiping, Malaysia
Joseph Richard Clay, Columbus
James Brian Cleary, Medina
William Joseph Cleary, Columbus
M. Andrew Cody, Westerville
Mark William Colasante, Chesterland

Tim A. Colburn, Waterville
Elicia Lynn Cole, Toledo
Anthony Scot Collins, Lima
Joan Maureen Collins, Hilliard
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Michael David Conkel, Chillicothe
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Timothy Richardson Dreffer, Huron
Harry Charles Drew, Ravenna
Sean Patrick Dunn, Gadsden, AL
Darlene Ann Dynia, Seven Hills
Dawn Dzewicki, Kirtland
Jeffrey Allen 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
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Graham Eric Fleming, Stow
Patricia Mary Kathleen Flinn, Grandview Heights
Mark D. Ford, Warren
Stephen Douglas Foster, East Palestine
Robert James Franczek, East Liverpool
Christopher Neville Gatt, Sliema, Malta
Robert L. Gilliam, Groveport
Joseph Matthew Gillotti, Lima
Edward Patrick Gilroy, Powell
Theodore Christos Glavas, Athens, Greece
Karen Ann Golinar, Euclid
Mark David Grass, Lima
Gary Lee Green, Loveland
Lucretia Ann Griffith, Newark
Mark Alan Grube, Defiance
Kristine Kay Gutheil, 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, Beaver Creek
Kevin Daniel Hermann, Cleveland
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Lisa Marie Hickman, Worthington
Joseph Edwin Hiestand, Hillsboro
Valerie Linn Hinton, Marion
David Howard Hissong, Akron
Richard L. Hix II, Marion
Larry Dale Holter, Pickerington
Diann Lynn Howenstine, North Canton
Michael Douglas Hughes, Worthington
Clark George Huskey, Gahanna

Dale Edward Hutchison, East Palestine
 Joseph Frank II Vento, Westerville
 John T. Imscher, Celina
 Robert Peter Jacino, Dublin
 Kathleen Diane Jacobec, Lakewood
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 Carl Richard Johnson, Ashtabula
 Dwayne Sherman Johnson, Groveport
 Jeffrey Mark Johnson, Perrysburg
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 Jeffrey T. Keller, Thornville
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 Jacqueline Dawn Kick, Lexington
 Robert John Kisler, Chillicothe
 Andrew John Klatt, Toledo
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 Douglas Charles Knox, Lancaster
 Douglas Steven Koch, Avon
 Teemu R. M. Kolehmainen, Helsinki,
 Finland
 Judith Kaye Kolikohn, Columbus
 Vasilios Emanuel Kourtis, Warren
 Steven James Kozlowski, Columbus
 Michael William Kreider, Mt. Gilead
 James Joseph Kuhn, Canal Winchester
 Darrin R. Lane, West Chester
 Cynthia Jo Lang, Loudonville
 Kimberly R. Latham, Powell
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 David Frank Levin, Columbus
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 Quyen Vy Lu, Columbus
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 Gregory August Marietti, Worthington
 W. Scott Martin, Dublin
 John Thomas Matushoney, Chillicothe
 David Blaine McAllister, Athens
 Robert Emmet McCarthy, Florham
 Park, NJ
 Patricia Anne McCarty, Dalton
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 Debra Kay McClanahan, Shell Rock, IA
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 Kristina Louise Menden, Perrysburg
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 Arlington
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 Michael Richard Miller, Spencerville
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 Amy Lynn Moellenkamp, Wapakoneta
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 Daron Randall Morris, Columbus
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 Kurt Howard Mucharsky, Dublin
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 Michael J. Murphy, Lakewood

Jeffrey Scott Murray, Shelby
 Cheryl Ann Neider, Cleveland
 Lisa Monica Newell, Ashland
 Michael Reed O'Connor, Columbus
 Mary Anne O'Reilly, Columbus
 Julia Karen Olive, Centerville
 John Patrick Pamer, Cuyahoga Falls
 Amy Lynn Pampuch, Worthington
 Edgar Scott Parks, Highland Heights
 Angela Kaye Payne, Columbus
 James Allen Peppercorn, Pepper Pike
 Anthony Joseph Petrocelli, Kettering
 Cara Elizabeth Phillips, Columbus
 Pamela Jean Piasick, Hudson
 Richard James Plummer, Perrysburg
 Jennifer Maxine Poole, Athens
 Mark William Prevost, Lancaster
 John Charles Prokup, Perrysburg
 Gary Francis Raab, Sylvania
 John Bernard Radcliff III, Circleville
 Lora Ann Ramey, Columbus
 Andrew Patrick Redmond, Columbus
 Katherine Mary Redmond, Fredericktown
 Carmen Sofia Reverendo, Cleveland
 Steven L. Riley, Mechanicsburg
 Derek Scott Ritchie, Oconomowoc, WI
 David Anthony Rivers, Brunswick
 Scott Allen Robinson, Westerville
 Kevin Fredrick Robison, Dublin
 Grace Ann Rocci, Columbus
 Anthony Lewis Rogers, Columbus
 Linda Ann Rollefson, Parkersburg, WV
 Randal I. Rombeiro, Reynoldsburg
 Jean A. Rothhaar, Willard
 Paul Michael Rotolo, Columbus
 Dean Michael Russ, Galion
 Terry James Russell, Delaware
 Andrew Patrick Sand, Canton
 Carole Rosanna Sanders, Fairfield
 Jodi E. Sandler, Highland Heights
 Denise Marie Sawicki, Edison, NJ
 Susan Marie Sawyer, Pepper Pike
 Gabrielle Antonia Schiller, Columbus
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 John David Schuman, Dublin
 Guy William Self, Millersburg
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 Dean Allen Shinnners, Wauseon
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 Marie Therese Sichel, Columbus
 Neelam Singh, Toledo
 Sharon Valencia Singletary, Miami, FL
 Tammy Joy Siss, Columbus
 Mary Diane Sliemers, Columbus
 John William Slyh, Sidney
 David Mitchell Smiley, Delaware
 John Frederick Smiley, Columbus
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 Melissa Kay Smith, Eaton
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 Margaret Ann Suffoletta, Toronto
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 Robert James Taglione, Columbus
 Michelle Elizabeth Talbott, Barnesville
 Boon Leng Tan, Kluang Johore, Malaysia
 Jeffrey Allen Tatem, Beavercreek
 R. Crit Thomas, Yellow Springs
 Max Thomas Thompson, Mansfield
 Bradley Scott Trainer, Alexandria
 Michael David Trettel, Erie, PA
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 Fred Eugene Trusty, Beavercreek
 Anthony Lawrence Venetta, Warren
 David Evan Vernon, Akron
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 Fritz Thomas Wink, Marion
 Donald Edward Woodford, Bedford, MA
 Rachel Eileen Wuertz, Delaware
 Karen Elaine Yantis, Westerville
 Stephen Yee, Columbus
 Michael David Young, Galion
 Stephanie Young, Cleveland
 Daniel P. Zink, Canton
 Sygailit Sara Zwilling, Cleveland Heights
 Michelle Maria Zwissler, Worthington

College of Dentistry

Dean: William R. Wallace

Doctor of Dental Surgery

Brian Glenn Dunlap, Kettering
 B.S.

College of Education

Dean: Donald P. Anderson

Bachelor of Science in Education

Renee Louise Allen, Waverly
 Angela Lynn Angus, Grove City
 Julia Lynn Appel, Worthington

Matthew John Augustine, Cleveland Heights
 Raymond Eric Baker, Bellbrook
 Kristine Diane Baran, Concord Township
 Dawn Malynn Bentley, Bucyrus
 Diane Frances Berman, Columbus
 Brian David Bertsch, 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 Christman, Columbus
 Lisa Ann Cline, Millersburg
 Stephen Michael Coffey, North Fairfield
 Ronald Edward Crowell, Norwalk
 Patricia Ann Cunningham, Lima
 James Allan Davis, Columbus
 Judy Kay Deaver, Newark
 Joy Dettorre, Lorain
 James Douglas DeYoung, Shaker Heights
 Mary Ann Douglas, Columbus Grove
 David Michael Draper, Whitehall
 Joel Alan Eisenstein, Bexley
 Tamara Ekis, Westerville
 Mildred Loretta Fort-Thomas, Columbus
 Margaret Mary Fox, Worthington
 Terri Ann Fox, Shelby
 Ronald Lee Fuller, Smithville
 Stefanie Hope Furllett, Calabasas 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. Groscoast, 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, Jamestown
 Linda Kaler Jennings, Ashland
 Laura Beth Johnson, Columbus
 Lacreasha Jean Johnston, Greenwich
 Brian Kenneth Jones, Columbus
 Katherine Kalbous, Worthington
 Michelle Ann Keiter, Columbus
 Sarah Bletner Kelley, Columbus
 Joseph Lee Kikume, Apple Creek
 Mindy Beth King, Ashland
 David Curtis Koger, Monroe
 Phyllis Jean Laman, Lima
 Michele Monique Lamarre, Strongsville
 Jodene Ann Landin, Fort Jennings
 Brian W. Lee, Mansfield
 Monica Carol Ludwick, Mansfield
 Michael Joseph Lutz, Leontonia
 Jennifer Lynn Madden, Grove City
 Pamela Marie Marek, Parma Heights

Cheryl Ann Mavec, Eastlake
 Susan E. McCrary, Gahanna
 Michael Juey McCray, Dayton
 Robert Allen McFee, Willoughby
 Jennifer Ann McVinsky, Mansfield
 Dianne Marie Memmer, Cleveland
 Michele Ann Miller, Columbus
 Eric Todd Mosley, Grove City
 Dana Lynn Mossor, Worthington
 Donna Louise Mynes, 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 Reardon, Galloway
 Michael William Reulbach, Bay Village
 Harry Lee Reynolds, Akron
 Amy Su Ann Romey, Bluffton
 Michelle Elaine Russell, Mansfield
 Diane 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. Varnish, Columbus
 Kelly Terese Vezdos, Avon Lake
 Gregory Dubs Voss, Bellvue
 Donald Leigh Wagner, Ashland
 Michael Todd Wallace, Westerville
 Michele Rene Watkins, Radnor
 Gary L. Westfall, Columbus
 Richard Alan Wickiser, Columbus
 Helen Hoff Widman, Pataaskala
 Debbie Jo Marion Wiegand, West Seneca, NY
 Patricia Lynn Williams, Ashland
 Steven Michael Wittler, Ottoville
 Robert James Young, Gahanna

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

Joel Edward Dawe, Lima
 Arthur John Hulsman III, Strongsville
 David Scott Miklosovic, Cleveland
 Steven Arthur Walters, Cincinnati

Bachelor of Science in Agricultural Engineering

John Eric Brim, Findlay
 Jeff Geuy Davidson, Sidney
 Edward Wescot Sarle, Worthington
 Bryan James Schmucker, Louisville
 Kenna Marie Specht, Conneaut

Bachelor of Science in Aviation

Laura Mary Antalik, Lynnfield, MA
 Carlet Carl Auguste, Jersey City, NJ
 Michael Robert Baur, Westerville
 William John Billingsley, Cumberland, MD
 Margaret Marie Daflucas, Salem, OR
 Robert Lee Donner, Jr., Mt. Gilead
 Kathleen Ellen Gappa, Orlando Park, IL
 Dale Edward Gelter, Russellville
 James Malcolm Irvine, Plymouth, MI
 Steven Eric Kerchner, Bedford
 Hilario Fusilero Mora, Lorain
 Christopher John Pawlowski, Columbus
 Andrew Hall Stephan, Upper Sandusky
 David Edward Wall, Medina
 Malcolm A. Warren III, Lebanon, PA

Bachelor of Science in Ceramic Engineering

Anna Diane Chlosta, Fremont
 Crispino DiRuggiero, North Olmsted
 Lynne Renee Edmondson, Garfield Heights
 Richard Charles First, Parma
 Andrew Glaser, Newport, RI
 Thomas Allen McInerney, Madison
 Sydney Edward Robinson, Columbus
 Brian Gene Ruppel, Akron

Bachelor of Science in Chemical Engineering

Pedram Alaadini, 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 Commager, Columbia, MO
 Julie Ann Donovan, Toledo
 Gregory Thomas Giamo, Oregon
 Raymond A. Hahn, Jr., Pittsburgh, PA
 Jacqueline Dominica Kline, Tallmadge
 Ronald Scott Kramer, Jr., Loveland
 Ronald Martin Makee, Fairport Harbor
 Michael Allan McColeman, St. Clairsville
 Margaret Arens Norris, Lancaster

David J. Pollock, Hinckley
Thomas Peter Riegel, Columbus
Thomas Leslie Rozsits, Chesterland
Kurt Joseph Swarts, Piqua
Geok 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
David Edward Bukovinsky, Columbus
Iyes Dendeni, Tunis, Tunisia
M. Mostafa Haykal, Damascus, Syria
Kimberly Ann Holderman, Woodsfield
Henry Simon Kalouche, Jounieh, Lebanon
David John Kenney, North Canton
Joseph Thomas Kinsella, Columbus
Tamara Elizabeth Michel, Sandusky
Ellen Doris Mok, Columbus
Richard Patrick Monahan, Kenosha, WI
Tobias Day Oswald, Bolivar
William Columbus Owens, Jr., Toledo
Amit Ray, Lancaster
Daniel Joseph Rhine, Lima
Denise Michelle Schwartz, Beavercreek
Langdon Edward Whittington, Newark
John Thomas Williamson, Irondale
Ronald Curtis Yakubek, Rowlett, TX

Bachelor of Science in Electrical Engineering

Christopher John Abel, Parma
Michael Jack Agosta, Circleville
Nitin Yogendra Bhatt, Westerville
James Richard Bibbo, Cincinnati
Geoffrey Marhsall Cox, Columbus
Sri Rachmani Darmawaskita, Malang, Indonesia
Tracy Lee Elswick, Wheelersburg
Steven Donald Gheen, Casstown
Latonya Lynn Harris, Columbus
Carmen Alicia M. Hernandez, El Salvador
Brian Jay Hollaway, Columbus
Charlene Louise Hopkins, Beavercreek
Mark Owen Johnson, Willoughby
Thomas Edward Little, Shadyside
Michael Teik-Aun Loy, Penang, Malaysia
Sanjay Megada, Cincinnati
Dale 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 Spittler, McCutchenville
Ronald William Stroup, Shelby
Michael Lee Tappan, Delta
Umesh S. Vazirani, Worthington

Martin Lloyd White, Columbia, PA
Daniel Thomas Zambory, Chardon

Bachelor of Science in Engineering Physics

Wesley Geunhyuk Chang, Worthington
Stuart Kevin Taylor, Columbus
Kristen Michelle Tormala, Westlake
Randall James Warren, Westerville

Mechanical Engineer

Juan Carlos Gonzalez, Villanueva, Torreon Coahvilla, Mexico

Bachelor of Science in Mechanical Engineering

Faour Hussein Alfaour, Beirut, Lebanon
Christopher Lee Brandly, 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
Jerold Eugene Morton, Galion
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 Slovut, Amherst
Christopher Stevens, Lima
Sandra Kay Stranski, Mansfield
James Michael Taylor, Gahanna
Joseph John Toreki II, Perry

Bachelor of Science in Metallurgical Engineering

Darin Scott Barber, Cincinnati
William Otto Brahrer III, Perry
Robert Matthew Herrmann, Columbus
Joel Douglas Johns, Columbus

Bachelor of Science in Surveying

James Scott Davenport, Mentor
James Edward Davis, Gahanna
Gary Scott Miller, Strongsville
Nilesh Raman Patel, Parma
Gary Stephen Swierz, 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
Alycia Ann Freeman, Coshocton
Eric Allen Karhoff, Findlay
William Jacob Mentges, 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 Ankey, Columbus
Janet Denise Atwood, Columbus
Elizabeth Emma Ball, Worthington
Linda Paulette Beltz, 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

Dawn Elizabeth Eggers Hennessy, Mansfield
Trina Lynn Hoover, Alliance
Suzanne Marie Houston, Worthington
Caroline Lynne Howard, Wilmington
Mei-Fen Hung, Munroe Falls
Diane Patrice Hurley, Columbus
Marcia Anne Johns, Chagrin Falls
Amy Marie Johnson, Centerville
Crystal Lynne Johnson, Columbus
Kathleen Mary Kelley, Columbus
Margaret Mary Kelley, Lima
Colleen Gaye Kolehmainen, Circleville
Kelly McNally Koney, Willoughby Hills
Laurie Anne Krouskop, Van Wert
Jack John Lach, Avon
JoAnne Given Leahy, Columbus
Georgia Gayle Lecain, Dublin
Lisa Gayle Markowitz, Cleveland
Beverly Jo McKain, Columbus
Nicole Rae Morosco, Zanesville
Monica Jean O'Brien, Kettering
Erin Maire O'Connell, Dayton
Micah Elizabeth Owens, Worthington
Kathleen Ann Quinlan, Columbus
Caren Renchar, Groveport
Katherine Elizabeth Ricciuti, Youngstown
Stephanie Renee Saam, Fremont
Lynda Marie Schneider, North Ridgeville
Sandra Kirsten Skarl, Shelby
Kelly Lynn Slade, Columbus
Tracy Rebecca Smith, Newark
Cheryl Ruth Snider, Pepper Pike
Marjorie Ann Soller, Marysville
Aimee Lynn Stojetz, Willoughby
Sherril Colvin Theaker, Bridgeport
Elaine Helen Utzinger, Grove City
Jennifer Kay Visser, Fairfax, VA
Kristina June Vogt, Port Clinton
Kelly Alyse Wilson, Poland
Amy Elizabeth Wink, Worthington
Melissa Catherine Woniger, Cincinnati
Gertrude Arvesta Woods, Coshocton

Bachelor of Science in Food Technology

Thomas John Pfeiffer, Canton

Bachelor of Science in Hospitality Management

Yvonne Mae Albers, Maria Stein
Douglas Victor Eickman, Dayton
Alan Matthew Escott, Mayfield Heights
Suzanne D. Everett, Laurelville
Christopher Lee Fisher, Columbus
Steven Skip Hand, Columbus
Kristina Karen Knight, Columbus
Michael George Mancy, Toledo
Abe Alan Pendleton, Bloomingdale
Hector Rene Ramirez, Toledo
Beth Ann Russell, East Liverpool
Nancy Sue Sarabia, Silver Spring, MD
Douglas Harold Smith, Marietta
Cynthia Marie Swank, Geneva

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 Bolling Sheppard, Huntsville, AL
B.S. (United States Military Academy)

College of Medicine

Dean: Manuel Tzagournis, M.D.

Doctor of Medicine

Lisa Pauline Gvoic 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 Pauls, Cincinnati
B.S. (Wittenberg University)

School of Allied Medical Professions

Bachelor of Science in Allied Health Professions

Michele Ann Barton, Allentown
Carolyn Elizabeth Gosnell, Columbus
Lisa Carol Holtrey, Fredericktown

Debora Ann Hulburt, LaVale, MD
Michael Kenneth Kennedy, Reynoldsburg
Hoan Kim Luu, Columbus
Shari Lynn Racut, Cleveland
Timothy John Warburton,
Upper Arlington
Lynn Ann Woodworth, Westerville
Paul Joseph Wulf, Louisville, KY

College of Nursing

Dean: Carole A. Anderson

Bachelor of Science in Nursing

Gwen Bea Atkins, South Euclid
Karen Marie Bergman, Houston
Marcie Ellen Connolly, Youngstown
April Lynette Foster, Newark
Zelda Elestine Foster-McCary, Cleveland
Laura Ann Emmett Reed, Springfield
Diane Marie Riddell, Pickerington
Diane Marie Sauder, Mansfield

College of Pharmacy

Dean: John M. Cassidy

Doctor of Pharmacy

Debra Lynn Merrill,
Nepean, Ontario, Canada
Kristen Wilkinson Mosdell, Dublin

Bachelor of Science in Pharmacy

Lesley Louise Breech, Worthington
David Paul Ciaranitaro, 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 Mieskoski, Columbus
David Alan Myers, Martins Ferry
Amy Louise Nemecek, Cleveland
Beth Senuta, Hudson
Mary Kay Stamatakis, Canton
Pamela Jane Stotka, Brookpark
Stephanie Ann Vrable, 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
Sujatha Jagadeesh

Summa Cum Laude

Christopher John Abel
Dawn Malynn Bentley
Joseph Richard Clay
Randy David Clepper
Joy Dettorre
Kelly René Flanagan
Gregory Thomas Giaimo
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 Schiefer
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 Wiclaw

With University Honors

Amy Michelle Drake
Lois Sevim McCutcheon
James Story Shoefelt

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. Grosco
Barron Keith Henley
Kurt Thomas Hofelich
Scott Lincoln Kaser
Susan Robertson Keiff
Kathleen Mary Kelley
Kristine Elizabeth Kovach
Jodene Ann Landin
Christine Kay Laskin
James Michael Lisko
Michael George Nancy
Tina Marie Mangia
Sandra Rose McInerney
Kristina Louise Menden
Angela Lynn Miller
*Mary Louise Ertl Murray
Judy Nygate
Anthony Duane Philipp
Richard James Plummer
Jennifer Joan Reardon
Richard Allan Repp
Annette Sue Reynolds
Linda Ann Rollefson
Michelle Elaine Russell
Nancy Kaye Schimpf
Richard Joseph Schuman
John William Slyh
Kay Ann Spellman
Joel F. Staich
Joseph Andrew Staysniak
Jerry Craig Strohacker
Jeffrey Allen Tatem
Amy Linette Weinhold
Gregory Lee Williams
Susan Marie Wolfe
Paul Joseph Wolf

THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FIFTY-SIXTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, December 1, 1989

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.

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Minutes of the last meeting were approved.

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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.

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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.

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 Jarvis 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 text book; 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.

December 1, 1989 meeting, Board of Trustees

REPORT ON THE COLLEGE OF DENTISTRY (contd)

Mrs. Bowser:

Vetennarians 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.

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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:

	<u>Book Value</u>	<u>Market Value as of 10-20-89</u>
Boatmen's Trust Company (Fixed Income)	\$25,000,000	\$23,921,037
Cambridge Financial Group, Inc. (Fixed Income)	\$ 1,000,000	\$ 952,715
The Chicago Corporation (Equities)	\$17,500,000	\$37,490,553
Duff and Phelps Investment Management Company (Fixed Income)	\$10,000,000	\$10,288,994
W.R. Lazard and Company (Fixed Income Index Fund)	\$10,000,000	\$10,121,962
R. Meeder and Associates, Inc. (Small Capitalization Index Fund)	\$15,000,000	\$13,949,480
Neuberger & Berman Mutual Funds:		
Guardian Fund	\$ 2,000,000	\$ 8,610,986
Partners Fund	\$ 1,000,000	\$ 5,521,958
Nicholas-Applegate Capital Management (Equities)	\$10,000,000	\$13,658,576

December 1, 1989 meeting, Board of Trustees

**APPOINTMENT OF INVESTMENT ADVISOR
AND REAPPOINTMENT OF INVESTMENT ADVISORS (contd)**

	<u>Book Value</u>	<u>Market Value as of 10-20-89</u>
Siebel Capital Management, Inc. (Equities)	\$13,500,000	\$34,505,711
STW Fixed Income Management, Inc. (Fixed Income)	\$25,000,000	\$24,216,126
University Managed (Equities)*	\$14,119,268	\$30,720,666
University Managed (Fixed Income)*	\$ 435,813	\$ 465,607
University Managed (GNMA's)	\$10,000,000	\$10,143,133
University Managed (Students) (New Appointment)	\$ 5,000,000	Not Applicable
Wells Fargo Investment Advisors (Standard and Poor 500 Index Fund)	\$30,000,000	\$28,677,608
Wells Fargo Investment Advisors (International Equity Index Fund)	\$10,000,000	\$10,000,000

*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.

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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,

December 1, 1989 meeting, Board of Trustees

ACADEMIC AFFAIRS COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

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.

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PERSONNEL ACTIONS

Resolution No. 90-53

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)

1967-1970 Associate Instructor (1969-1970) and Graduate Assistant (1967-1969), Department of Educational Psychology, School of Education, Indiana University and Consultant, Atterbury Job Corps Center, Edinburg, Indiana

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 -- your's too. It's very nice.

Mr. Berry:

I take it you're giving it your hearty endorsement!

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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.

December 1, 1989 meeting, Board of Trustees

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.

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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.

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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 peoples' 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)

akes 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.)

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**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.

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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:

December 1, 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 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

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	94	\$9,354,349.73
Engineering Experiment Station	40	\$ 500,082.00
Total	134	\$9,854,431.73

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 Roifes 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

\$4,711,682.00 - Department of Labor, Bureau of Labor Statistics, Washington, D.C., National Longitudinal Surveys of Labor Market Experience, Round XII, Center for Human Resource Research (R. J. Olsen), 1 October 1989 through 30 June 1992. (Project 766448 - Continuation)

\$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)

\$135,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Protective Antigens of Infectious Bursal Disease Virus: Molecular Studies on Viral Proteins, Food Animal Health Research Program - OARDC (D. J. Jackwood and Y. M. Saif), 1 September 1989 through 31 August 1992. (Project 767784 - 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. Cornhill), 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 767860 - New)

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 Allergy and Infectious Diseases, 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)

\$89,909.00 - Department of Agriculture, Science and Education, Washington, D.C., Development of Antisera and Diagnostic Tests for Serogrouping Avian Rotaviruses, Food Animal Health Research Program - OARDC (L. J. Saif and Y. M. Saif), 1 September 1989 through 31 August 1991. (Project 767536 - 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)

\$69,584.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Serving Persons with Disabilities in Vocational Education: Training the Teacher Trainers, Center on Education and Training for Employment (R. D. Ryan), 1 September 1989 through 31 August 1990. (Project 767903 - New)

\$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)

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)

\$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)

\$36,942.00 - Department of Labor, Bureau of Labor Statistics, Washington, D.C., National Longitudinal Surveys of Labor Market Experience, Round XI, Center for Human Resource Research (R. J. Olsen), 1 October 1989 through 30 September 1990. (Project 766448 - 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)

\$36,333.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Development of Mania Rating Scales for Children Age 6-12, Department of Psychiatry (M. A. Fristad), 30 September 1989 through 31 August 1990. (Project 767885 - 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. Krugel), 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. Willson), 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. Oglesbee), 1 September 1989 through 31 August 1990. (Project 767020 - Continuation)

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)

\$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. Stainaker), 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)

\$10,000.00 - Department of Agriculture, Economic Research Service, Washington, D.C., European Community 1992: Implications for Food Processors and Distributors, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (D. R. Henderson), 28 September 1989 through 31 January 1991. (Project 767850 - New)

\$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)

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)

\$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. Cornhill), 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. Shering 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)

\$19,372.00 - Warner-Lambert Company, Morris Plains, New Jersey, In Vitro Evaluation of Antimicrobial Activity of Four Experimental Oral Antiseptics, Oral Biology (S. Rosen), 1 October 1989 through 31 December 1989. (Project 767870 - New)

\$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)

December 1, 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)

\$7,701.78 - 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)

\$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 765272 - 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 767681 - Continuation)

\$38,000.00 - Pennsylvania Department of Education, Harrisburg, Pennsylvania, 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 767897 - 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. Rammoohan), 1 October 1989 through 30 September 1990. (Project 767844 - 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)

\$30,000.00 - Indiana Michigan Power Company, Bridgman, Michigan, 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 1989 through 31 January 1990. (Project 767901 - New)

\$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 767618 - New)

\$24,000.00 - Battelle Memorial Institute, Columbus, Ohio, Enhanced Coal Biotransformation 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 767859 - 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'Dorisio), 1 July 1989 through 30 June 1990. (Project 767857 - New)

\$7,830.00 - University of Washington, Seattle, Washington, Paleoclimatology of the Holocene and the Last Interglaciation, Byrd Polar Research Center and Department of Zoology (P. A. Colinvaux), 1 July 1989 through 30 September 1989. (Project 767877 - 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 - OARDC 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)

\$3,500.00 - Washington State Board for Vocational Education, Olympia, Washington, Participation in a Study on the Washington Institute of Applied Technology, Center on Education and Training for Employment (R. D. Ryan), 16 August 1989 through 31 August 1989. (Project 767893 - 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)

\$3,000.00 - Washington State Board for Vocational Education, Olympia, Washington, Review and Comment on the Conclusions of the Study of the Washington Institute of Applied Technology, Center on Education and Training for Employment (R. D. Ryan), 1 September 1989 through 31 December 1989. (Project 767894 - New)

\$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. Chern 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.

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 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.

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Employment of Architects/Engineers

Background

Biotechnology Support Facility

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.)

December 1, 1989 meeting, Board of Trustees

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.

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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.

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**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.

December 1, 1989 meeting, Board of Trustees

**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 XXXIV 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.

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December 1, 1989 meeting, Board of Trustees

**Report of Award of Contracts and
Establishment of Contingency Funds**

Background

(See Appendix XXXX 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:	Culligan Fire, Cincinnati, Ohio
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.

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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.)

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**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 Appenxi XXXXII for map, page 637.)

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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 fixed and half between variable. The projects list that I reported to you 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.

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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
Secretary

John W. Berry
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)**



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261

**THE OHIO STATE UNIVERSITY
ENDOWMENT SUMMARY
November 17, 1989**

Endowment Composition

	<u>06-30-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>11-17-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
Equities:				
Chicago Corp.	\$ 34,629,320	13.98%	\$ 36,678,930	13.98%
R. Meeder	-0-	-0-	13,431,249 (1)	5.12
Neuberger & Bermen	13,552,018	5.47	14,064,904	5.36
Nicholas-Applegate	11,475,663	4.63	13,326,026	5.08
OSU Managed	80,168,113	32.35	32,339,011	12.32
Siebel	32,173,227	12.98	33,841,236	12.90
Wells Fargo EAFE	-0-	-0-	9,601,781 (2)	3.66
Wells Fargo S&P 500	-0-	-0-	28,564,288 (3)	10.88
Total Equities	\$171,998,341	69.41%	\$181,847,425	69.30%
Fixed Income:				
Boatmen's Trust	\$ 23,841,580	9.62%	\$ 24,178,088	9.22%
Cambridge	951,048	0.38	954,594	0.36
Duff & Phelps	10,243,208	4.13	10,356,222	3.95
WR Lazard	-0-	-0-	10,138,176 (4)	3.86
OSU - GNMA	10,144,887	4.10	10,241,191	3.90
OSU Managed	6,465,211	2.61	332,875	0.13
STW Fixed Income	24,150,270	9.75	24,360,237	9.28
Total Fixed Income	\$ 75,796,204	30.59%	\$ 80,561,343	30.70%
Total Equities & Fixed Income	\$247,794,545	100.00%	\$262,408,808	100.00%
Real Estate	\$ 39,503,844		\$ 39,701,379	
Total Portfolio	\$287,298,389		\$302,110,187	

(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

	<u>% Yield</u>	<u>% Change in Market Value November '88 to November '89</u>	<u>Total Estimated Return</u>
Equity:			
Chicago Corp.	3.14% (1)	23.10%	26.24%
R. Meader	0.57 (2)	(10.46)	(9.89) (13)
Neuberger & Berzman	2.82	26.13	28.95
Nicholas-Applegate	1.47 (3)	37.73	39.20
OSU Managed	5.57 (4)	14.58	20.15
Siebel	5.14 (5)	24.79	29.93
Wells Fargo EAFE	0.21	(3.98)	(3.77) (14)
Wells Fargo S&P 500	0.20	(4.79)	(4.59) (15)
Standard & Poor's Index	3.86	28.20	32.06
Real Estate:	3.85%	8.42%	12.27%
Fixed Income:			
Boatman's Trust	7.97% (6)	10.69%	18.66%
Cambridge	8.33 (7)	4.51	12.84
Duff & Phelps	8.12 (8)	5.01	13.13
WR Lazard	2.35 (9)	1.38	3.73 (13)
OSU - GWA	9.78 (10)	3.36	13.14
OSU Managed	9.35 (11)	(2.85)	6.50
STW Fixed Income	8.90 (12)	10.75	19.65
Merrill Lynch Corporate/ Government Master	8.77	5.38	14.15
Jhearson Lehman Hutton Government/ Corporate Index	9.27	2.87	12.14

- (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) 4.6% of Boatman'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-GWA portfolio is made up of cash & cash equivalents earning 8.6%.
- (11) 0.0% of OSU 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.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>11-17-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-89)	\$287,298,389	Equities	\$164,836,808	54.56%
Principal Additions	10,796,020	Fixed Income	77,487,247	25.65
Principal Withdrawals (80,000)	(80,000)	Real Estate	39,600,000	13.11
Change in Market Value	<u>4,025,778</u>	Cash	<u>20,186,132</u>	<u>6.68</u>
Current Market Value	<u>\$302,110,187</u>	Total Portfolio	<u>\$302,110,187</u>	<u>100.00%</u>

maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>
131,000	Continental Illinois Corp. 0.0000% 11/01/89	OSU

Real Estate

Sale

No Activity

Total Investment

**The Ohio State University
Common & Preferred Stock**

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
2,800	CPC International, Inc.	Chicago	65.8120	\$ 184,455.60	\$ 5,040.00
3,100	Crawford & Co.	"	32.8750	102,114.00	1,984.00
3,800	Kemper Corp.	"	47.5000	180,747.00	3,192.00
7,400	Liz Claiborne, Inc.	"	24.4189	180,700.00	1,258.00
9,900	Avnet, Inc.	Nicholas- Applegate	27.4000	271,854.00	4,950.00
3,800	Dillard Department Stores	"	68.0000	258,628.00	608.00
7,100	National Medical Enterprises	"	37.2969	265,233.90	4,828.00
17,000	Service Corp. International	"	15.7416	268,147.72	9,520.00
2	Procter & Gamble Co.*	OSU	127.6900	255.38	5.60
247	Wendy's International*	"	5.3125	1,312.19	59.28
200	Worthington Industries, Inc.*	"	23.6250	4,725.00	88.00
14,900	American Stores	Siebel	54.8367	818,110.00	14,900.00
3,600	General Electric Co.	"	54.1110	195,051.60	5,904.00
12,000	Millipore Corp.	"	27.2265	327,528.00	4,320.00
2,300	Primrica Corp.	"	27.5640	<u>63,535.20</u>	<u>644.00</u>
				<u>\$3,122,397.59</u>	<u>\$57,300.88</u>

* Gift.

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
7,400	Bard (CR), Inc.	Chicago	21.3100	\$ 157,207.74	\$ 18,161.74
3,500	Becton Dickson & Co.	"	56.5000	197,515.90	6,723.90
6,200	FPL Group, Inc.	"	32.7500	202,640.23	12,537.23
4,663	Marion Laboratories, Inc.	"	33.8060	157,329.02	70,760.42
3,500	Nucor Corp.	"	57.6250	201,453.27	55,739.52
630	Vivra, Inc.	"	24.3460	15,299.66	(1,634.59)
8,000	Clark Equipment Co.	Nicholas- Applegate	33.8125	270,010.97	11,244.37
1,700	Intal Corp.	"	31.2500	53,125.00	5,854.37
9,000	Lagent Corp.	"	25.7365	231,628.10	(40,478.01)
7,600	Telephone and Data Systems, Inc.	"	37.6349	285,559.46	(13,193.04)
2	Procter & Gamble Co.*	OSU	128.7518	<u>256.67</u>	<u>1.29</u>
				<u>\$1,772,026.02</u>	<u>\$125,717.20</u>

* Gift.

The Ohio State University

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
1,000,000	International Business Machines 8.375% 11/01/19	Boatman's	8.4596	8.4673	99.0000	\$ 990,000.00
1,000,000	Florida State Board of Education G.O. 7.250% 06/01/23	STW	7.2867	7.2899	99.4970	994,970.00
1,000,000	Ford Credit 1989A Grantor Trust 8.700% 11/15/94	"	8.7355	8.7988	99.5937	995,937.50
1,000,000	New York State Dorm Series A 7.125% 05/15/17	"	7.4312	7.4799	95.8790	958,790.00
1,000,000	Tennessee Valley Authority 8.625% 11/15/29	"	8.9937	9.0054	95.9000	959,000.00
7,220,000	U.S. Treasury Bond 10.750% 08/15/05	"	10.0185	9.8254	107.3010	<u>7,747,131.25</u>
						<u>\$12,645,828.75</u>

The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain (Loss) On Sale</u>
1,000,000	U.S. Treasury Bond 8.875% 02/15/19	Boatmen's	110.6562	\$ 1,106,562.50	\$147,187.50
925,000	U.S. Treasury Bond 8.125% 08/15/19	Cambridge	101.7656	941,332.03	20,089.84
4,435,000	U.S. Treasury Note 8.875% 11/15/98	STW	105.7187	4,688,626.56	377,447.33
1,870,000	U.S. Treasury Bond 10.7500 08/15/05	"	123.8645	2,316,265.63	30,185.04
1,000,000	Triborough Bridge NY-Municipal 7.125% 01/01/19	"	95.7980	957,980.00	(23,270.00)
3,420,000	U.S. Treasury Bond 10.375% 11/15/12	"	121.6250	<u>4,159,575.00</u>	<u>374,579.99</u>
				<u>\$14,170,341.72</u>	<u>\$926,219.70</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

	Yield	Acquired	Invested	Appraised Value	Date Appraised
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
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
46.984 acres of land in Delaware County	.55	1971	100,793	641,000	06/89
Hangar at Don Scott Field (Loan)	.00	1973	28,665 (1)	28,665	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	72,714 (1)	72,714	N/A
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	283,000	06/89
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,896,000	06/89
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,367,000	06/89
76.143 acres of land, 3253 West Granville Road	.03	1968	310,538	6,853,000	06/89
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,749,000	06/89
32 acres of land, 3371 West Granville Road	.19	1986	2,078,666	2,880,000	06/89
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,080,000	06/89
8.557 acres of land, 3505 West Granville Road	.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
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	1,155,000	08/89
17.92 acres of land on Eiterman Road	.00	1978	25,152	725,000	05/88
Veterans Administration Clinic	8.08	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,332,320</u>	<u>\$39,701,379</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261

MEMORANDUM

Subject: Proxy Solicitations
Date: November 30, 1989
From: James L. Nichols, Treasurer *James L. Nichols*
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)**

The Ohio State University Endowment Fund
Annual Total Return Comparison by Advisor
Equity Advisors

	Year Ended June 30													
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Chicago Corporation														
\$17,500,000/\$34,629,320*	15.0%	(2.3)%	11.3%	37.3%	29.9%	(3.0)%	40.0%	(2.1)%	24.0%	15.3%				
Heminger & Bergan (Mutual Funds)														
\$3,087,848/\$13,552,016*	18.4%	(3.3)%	19.3%	23.4%	27.6%	(2.3)%	46.7%	(7.6)%	18.7%	30.8%				
Michalis-Applegate (1)														
\$18,000,000/\$11,675,643*	11.7%	(6.8)%	13.0%											
Stebel Capital Management														
\$13,500,000/\$12,179,227*	20.9%	1.7%	8.0%	29.3%	31.7%	(8.9)%	38.3%	(.3)%	35.3%	24.1%				
GGI Managed Equities														
	19.4%	2.1%	4.4%	41.4%	55.3%	4.0%	56.1%	7.3%	36.6%	10.4%				
Standard & Poor's 500 Index	20.4%	(7.8)%	24.9%	35.3%	30.9%	(4.7)%	61.4%	(11.8)%	20.9%	17.1%				
SEI (2)														
5th Percentile	27.4%	3.2%	30.2%	49.4%	38.4%	4.8%	88.4%	2.6%	35.8%	30.3%				
25th Percentile	21.0%	-2.1%	23.3%	38.6%	31.4%	(3.7)%	64.3%	(5.3)%	27.4%	21.8%				
Median	18.8%	-5.0%	19.3%	34.0%	27.2%	(8.7)%	58.0%	(9.6)%	23.6%	17.4%				
75th Percentile	15.3%	-7.9%	15.7%	29.6%	23.4%	(14.1)%	51.6%	(13.6)%	19.9%	13.6%				
95th Percentile	10.9%	-12.3%	8.5%	23.6%	15.8%	(21.6)%	39.7%	(20.3)%	14.7%	9.3%				

* Allocation and market value of investments managed as of June 30, 1989.

(1) Initial allocation made on June 12, 1986.

(2) SEI data obtained from Duff & Phelps.

The Ohio State University
Office of the Treasurer

The Ohio State University Endowment Fund
 Annual Total Return Comparison by Adviser
 Equity Advisers

Year Ended June 30

	1 Year	2 Year	3 Year	10 Year
Chicago Corporation \$17,500,000/\$14,659,339*	15.0%	8.0%	17.9%	15.9%
Mutual Shares & Bonds (Mutual Funds) \$3,007,648/\$13,535,010*	18.4%	11.0%	16.4%	16.1%
Nichols-Applegate (1) \$10,000,000/\$11,475,643*	11.7%	5.4%		
Stiebel Capital Management \$13,300,000/\$12,173,237*	20.9%	9.9%	17.7%	18.0%
OSU Managed Equities	19.4%	8.4%	22.0%	22.04%
Standard & Poor's 500 Index	20.4%	12.0%	20.1%	17.0%
SEI:				
54th Percentile	27.4%	15.9%	22.8%	21.5%
25th Percentile	21.0%	13.0%	21.0%	18.7%
Median	18.0%	11.0%	19.2%	16.9%
75th Percentile	15.5%	8.7%	17.5%	15.4%
95th Percentile	10.9%	5.3%	15.1%	13.7%

* Allocation and market value of investments managed as of June 30, 1969.

(1) Initial allocation made on June 12, 1968.

GLJ/mec
 CONCLUSION

The Ohio State University
 Office of the Treasurer

The Ohio State University Endowment Fund
Annual Total Return Comparison by Advice
Fixed-income Advisees

	Year Ended June 30										
	1982	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Boozman's Trust Company (1)	26.7%	3.3%	5.9%	10.3%	36.3%	--	--	--	--	--	--
\$20,000,000/\$23,787,578*											
Cambridge (2)	11.1%	(1.1)%	--	--	--	--	--	--	--	--	--
\$1,000,000/\$945,535*											
Duff & Phelps (2)	11.3%	7.7%	--	--	--	--	--	--	--	--	--
\$18,000,000/\$10,299,005*											
FTW Fixed Income (1)	18.6%	6.6%	1.3%	40.6%	43.9%	--	--	--	--	--	--
\$20,000,000/\$24,013,830*											
OCU - CIMA (2)	11.6%	9.5%	--	--	--	--	--	--	--	--	--
\$19,000,000/\$10,344,887*											
OCU Managed Fixed Income	4.5%	2.3%	9.5%	13.1%	25.5%	0.3%	32.9%	--	--	--	--
Shearson Lehman Government/ Corporate Bond Index	12.3%	7.5%	4.5%	20.1%	26.2%	1.3%	29.2%	12.5%	(5.0)%	2.9%	
SEI:											
5th Percentile	14.1%	10.1%	8.5%	27.8%	36.4%	7.3%	36.2%	15.9%	6.1%	11.0%	
25th Percentile	12.4%	6.6%	6.3%	22.4%	29.3%	3.9%	30.6%	13.8%	(1.0)%	6.8%	
Median	18.5%	7.8%	5.6%	19.5%	24.4%	1.8%	26.7%	11.9%	(6.3)%	4.3%	
75th Percentile	9.5%	7.1%	4.8%	14.6%	22.0%	(0.2)%	23.5%	10.3%	(6.7)%	2.1%	
95th Percentile	8.3%	5.8%	2.9%	10.2%	17.0%	(3.8)%	14.4%	8.0%	(10.1)%	(0.4)%	

* 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

The Ohio State University Endowment Fund
Annual Total Return Comparison by Adviser
Fixed-Income Advisers

Year Ended June 30

	1-Year	3-Year	5-Year
Beaman's Trust Company (1) \$10,000,000/\$23,707,376*	20.7%	9.9%	19.0%
Cambridge (2)	11.1%		
\$1,000,000/\$943,333*			
Duff & Phelps (2)	11.3%		
\$10,000,000/\$10,399,003*			
STV Fixed Income (1)	10.6%	8.9%	21.2%
\$20,000,000/\$24,013,836*			
CGI-CMAA (2)			
\$10,000,000/\$10,144,007*	11.0%		
CGI Managed Fixed Income	4.5%	5.5%	10.7%
Roosman Lehman Government/ Corporate Bond Index	12.3%	6.1%	14.4%
SEI:			
5th Percentile	14.1%	9.8%	17.0%
25th Percentile	12.4%	9.0%	14.9%
Median	10.5%	8.0%	13.0%
75th Percentile	9.5%	7.5%	11.4%
95th Percentile	8.3%	6.9%	10.2%

* 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 29, 1987.

The Ohio State University
Office of the Treasurer

OSU Managed Stocks
June 30, 1989

Stock	No. of Shares	Cost Per Share	Total Cost	Market Value Per Share	Total Market Value	% of Assets
American Electric Power	30,669	15.9177	\$488,179.94	27.7500	\$851,064.75	2.92%
Anderson Partnership	N/A	N/A	1,070,000.00	N/A	1,070,000.00	3.67%
Bank One Corp.	147,377	8.5725	1,263,389.33	33.5000	4,937,129.50	16.93%
Citizens Utilities Co.	82,137	5.3053	435,761.43	46.2500	3,798,836.25	13.03%
Huntington Bancshares	151,595	4.8599	736,736.54	22.1250	3,354,039.38	11.50%
National City Corp.	53,865	10.2287	550,968.93	35.5000	1,912,207.50	6.56%
Student Loan Mkt-Non-voting	7,450	0.7143	5,321.54	100.2500	746,862.50	2.56%
Student Loan Mkt-Voting	7,866	0.7143	5,618.68	89.7500	705,973.50	2.42%
The Limited Inc.	224,512	24.2511	5,444,662.96	31.6250	7,100,192.00	24.35%
Wendy's International Inc.	296,840	5.3284	1,581,682.26	5.8750	1,743,935.00	5.98%
Worthington Industries	84,981	13.9200	1,182,935.52	22.2500	1,890,827.25	6.49%
Miscellaneous Stocks	N/A	N/A	1,520,052.86	N/A	1,044,589.75	3.58%
TOTAL PORTFOLIO			\$14,285,309.98		\$29,155,657.38	100.00%

OSU Managed Bonds
June 30, 1989

Security	Par Value	Unit Cost	Total Cost	Price	Total Market Value	% of Assets
Continental Illinois Corp. 0.000% Due 11-01-89	131,000	47.4000	\$62,094.00	96.7500	\$126,742.50	27.24%
Rapid American Corp. 10.750% Due 12-01-03	375,000	73.0000	273,750.00	60.0000	225,000.00	48.37%
U.S. Treasury Note 14.875% Due 08-15-91	100,000	99.9688	99,968.75	113.4688	113,468.75	24.39%
TOTAL PORTFOLIO			\$435,812.75		\$465,211.25	100.00%

The Ohio State University Endowment
 PORTFOLIO APPRAISAL
 OSU-GNMA Fund
 June 30, 1989

Quantity	Security	Unit Cost	Total Cost	Price	Market Value	Pct. Assets	Cur. Yield
GNMA							
121,182	GNMA #141451 10.500% Due 11-15-00	104.87	127,089.58	103.53	125,461.20	1.2	10.1
694,951	GNMA #142874 10.500% Due 11-15-00	104.87	728,829.87	103.53	719,491.47	7.1	10.1
24,092	GNMA #147676 10.500% Due 01-15-01	104.88	25,266.74	103.53	24,942.99	0.2	10.1
146,570	GNMA #263305 9.500% Due 09-15-03	99.50	145,836.16	101.62	148,951.80	1.5	9.3
274,192	GNMA #146496 10.500% Due 02-15-16	104.31	286,016.15	103.97	285,074.48	2.8	10.1
567,819	GNMA #153722 10.500% Due 03-15-16	104.25	591,951.70	103.97	590,354.72	5.8	10.1
329,377	GNMA #177118 9.000% Due 08-15-16	93.81	308,996.36	97.81	322,171.42	3.2	9.2
948,837	GNMA #187313 9.000% Due 12-15-16	95.75	908,511.68	97.81	928,081.44	9.1	9.2
290,683	GNMA #191555 9.000% Due 12-15-16	95.16	276,603.02	97.81	284,324.29	2.8	9.2
935,408	GNMA #213648 9.000% Due 06-15-17	95.63	894,484.24	97.81	914,946.29	9.0	9.2
919,499	GNMA #213734 9.500% Due 07-15-17	98.56	906,280.54	99.94	918,924.27	9.1	9.5
989,458	GNMA #215511 10.000% Due 08-15-17	100.69	996,260.29	102.09	1,010,174.87	10.0	9.8
949,831	GNMA #201077 9.500% Due 08-15-17	97.69	927,865.90	99.94	949,237.07	9.4	9.5
383,208	GNMA #201756 10.000% Due 08-15-17	101.62	389,434.64	102.09	391,230.93	3.9	9.8

The Ohio State University Endowment
 PORTFOLIO APPRAISAL
 OSU-GNMA Fund
 June 30, 1989

Quantity	Security	Unit Cost	Total Cost	Price	Market Value	Pct. Assets	Cur. Yield
957,626	GNMA #219379 10.000% Due 08-15-17	100.69	964,209.16	102.09	977,676.06	9.6	9.8
484,035	GNMA #231333 10.000% Due 08-15-17	101.62	491,900.74	102.09	494,169.98	4.9	9.8
964,016	GNMA #231145 9.500% Due 08-15-17	97.81	942,927.67	99.94	963,413.43	9.5	9.5
			9,912,464.44		10,048,626.70	99.1	9.6
CASH AND EQUIVALENTS							
	OSU-GNMA NCC Money Market		96,261.49		96,261.49	0.9	8.6
			96,261.49		96,261.49	0.9	8.6
TOTAL PORTFOLIO			10,008,725.93		10,144,888.19	100.0	9.6

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APPENDIX XXXVI

ASSESSING EXTENTION PROGRAM NEEDS AT THE LOCAL LEVEL

**Presented to the Agricultural Affairs Committee
(See page 570)**



Ohio Cooperative Extension Service

Office of the Director
2120 Fyffe Road
Columbus, OH 43210-1010
Phone 614-292-4067

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



The Ohio State University, The United States Department of Agriculture and County Commissioners Cooperating

* 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 incomes
- 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 clientele.

-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.

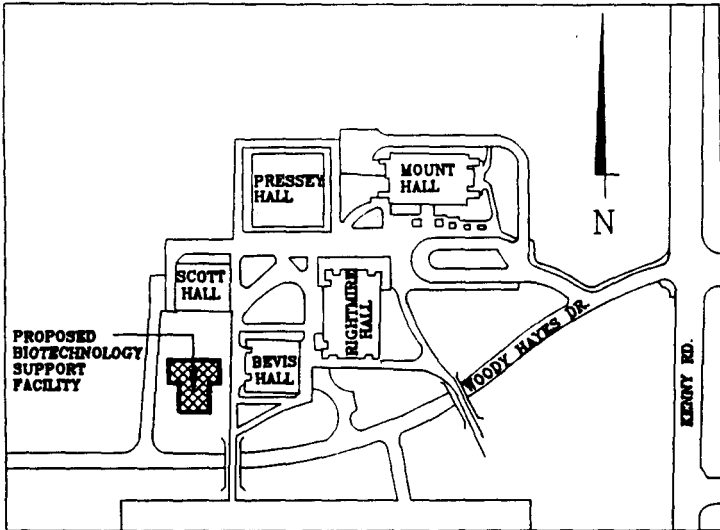
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APPENDIX XXXVII

**BIOTECHNOLOGY SUPPORT FACILITY
BOTANY AND ZOOLOGY GREENHOUSE**

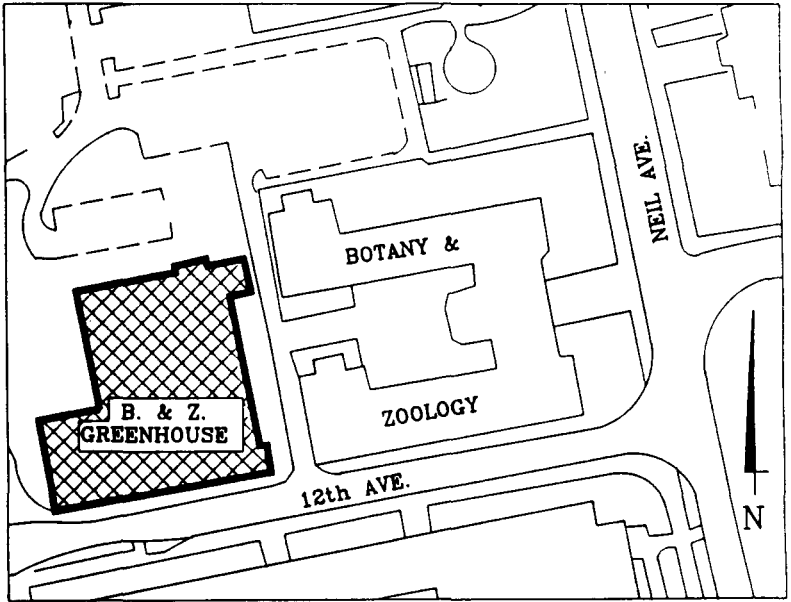
**Adopted by the Board of Trustees December 1, 1989
(See page 588)**

BIOTECHNOLOGY SUPPORT FACILITY



OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 1, 1989

BOTANY AND ZOOLOGY
GREENHOUSE



OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 1, 1989

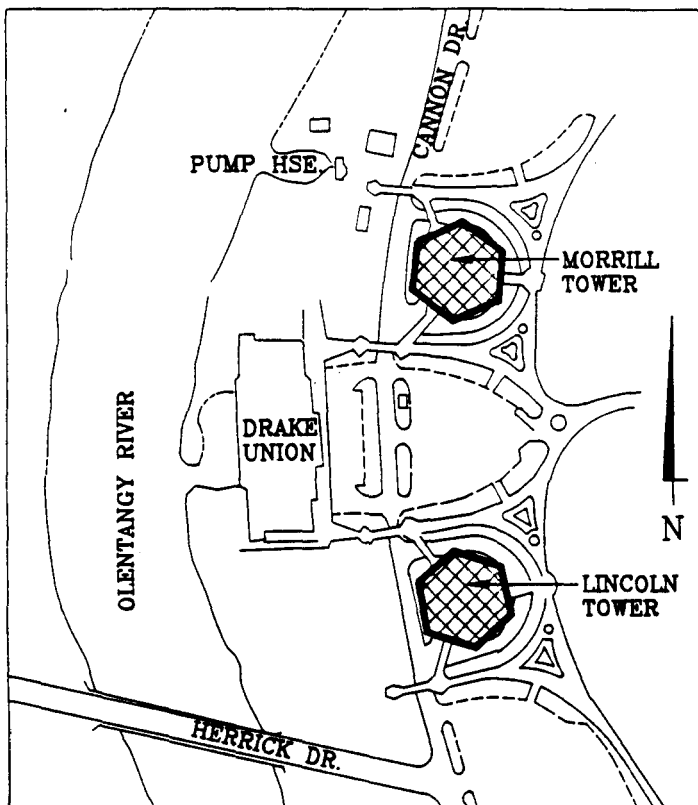
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APPENDIX XXXVIII

**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



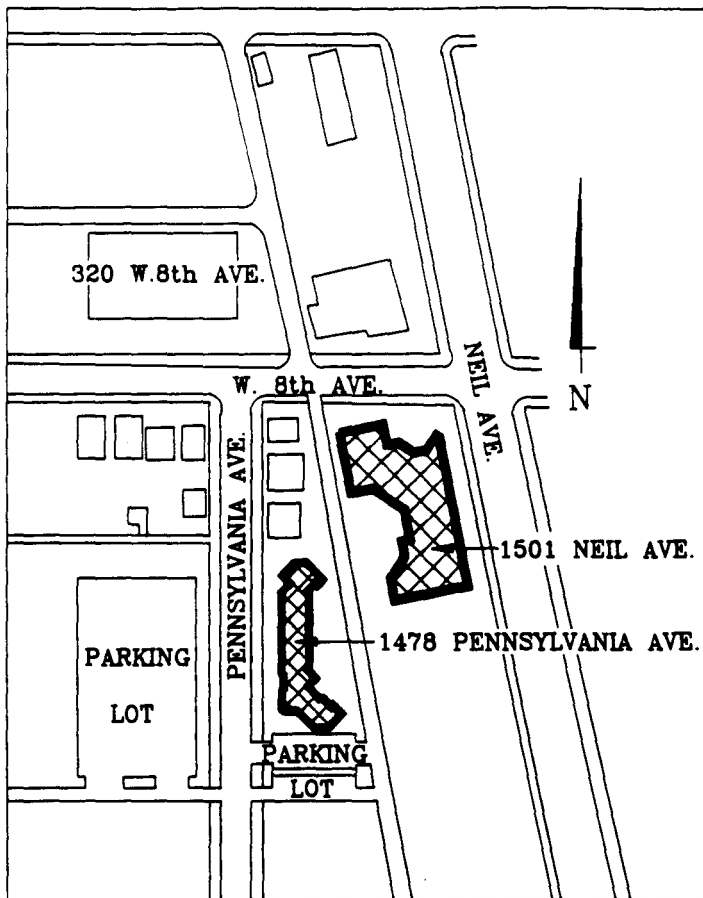
OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 1, 1969

APPENDIX XXXVIV

**1501 NEIL AVENUE RENOVATION AND
ASTRONOMICAL INSTRUMENTATION FACILITY**

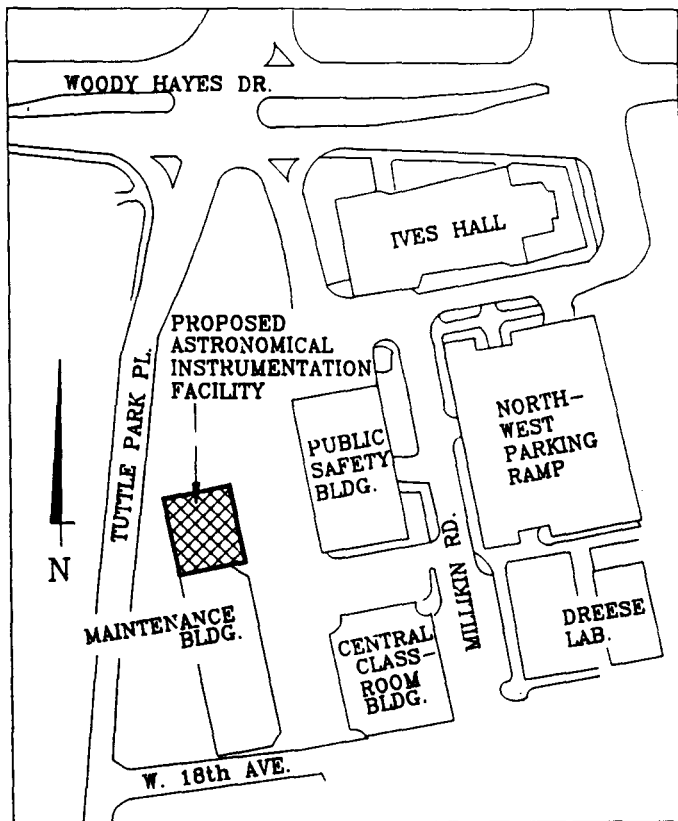
**Adopted by the Board of Trustees December 1, 1989
(See page 591)**

1501 NEIL AVENUE RENOVATION



OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 1, 1969

ASTRONOMICAL INSTRUMENTATION FACILITY



OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 1, 1989

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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

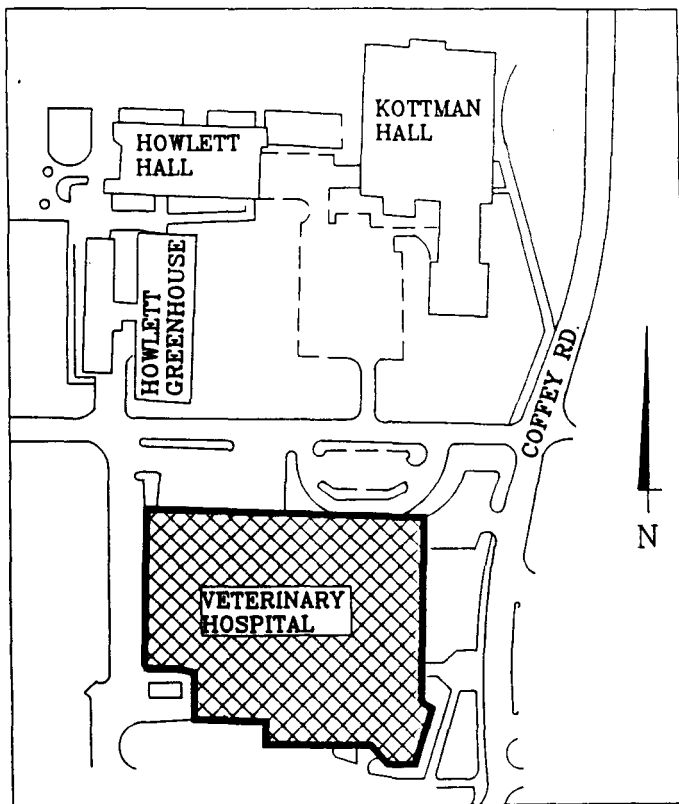
VETERINARY HOSPITAL - SPRINKLER FOR LARGE ANIMAL WARD

Tabulation of Bids

Bids received by The Ohio State University on October 12, 1989. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

<u>Fire Protection Contract</u>	<u>Estimate</u>	<u>Culigan Fire *</u>	<u>Commuale</u>	<u>Dalmation</u>
Base Bid	\$115,000.00	\$52,000.00	\$53,000.00	\$68,000.00
Alt. F-1 (Addn'l Sprinklers)	3,000.00	4,000.00	3,700.00	500.00
Total Fire Prot. Contract	\$118,000.00	\$56,000.00	\$56,700.00	\$68,500.00

VETERINARY HOSPITAL
SPRINKLER FOR LARGE
ANIMAL WARDS



OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 1, 1989

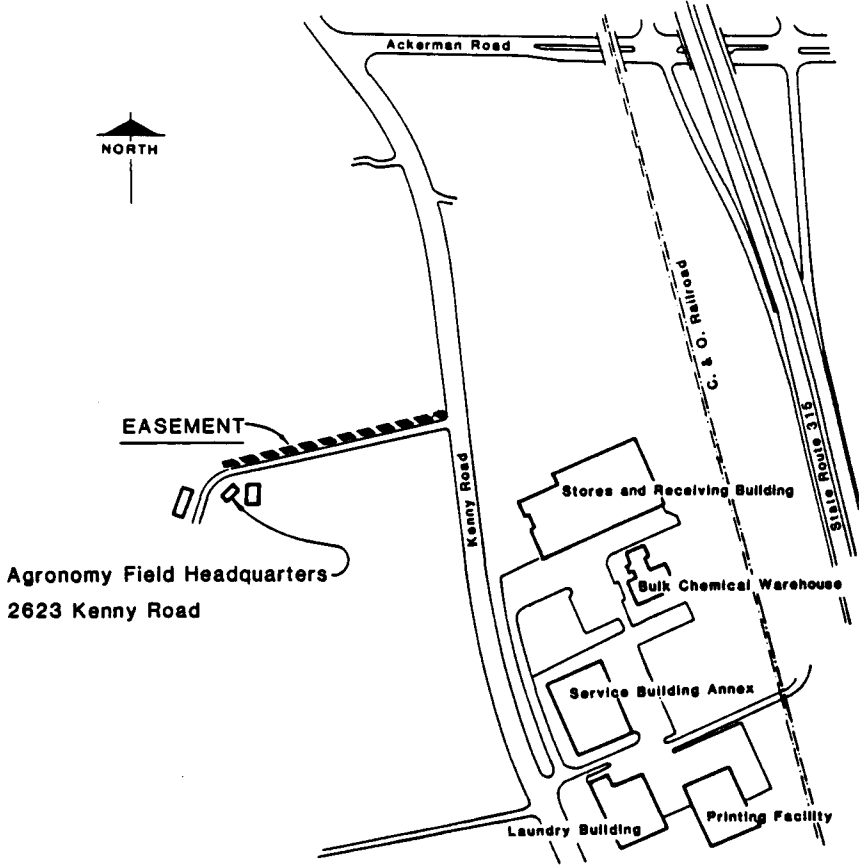
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APPENDIX XXXXI

COLUMBUS SOUTHERN POWER COMPANY
EASEMENT RENEWAL

Adopted by the Board of Trustees December 1, 1989
(See page 593)

Columbus Southern Power Company Easement Renewal



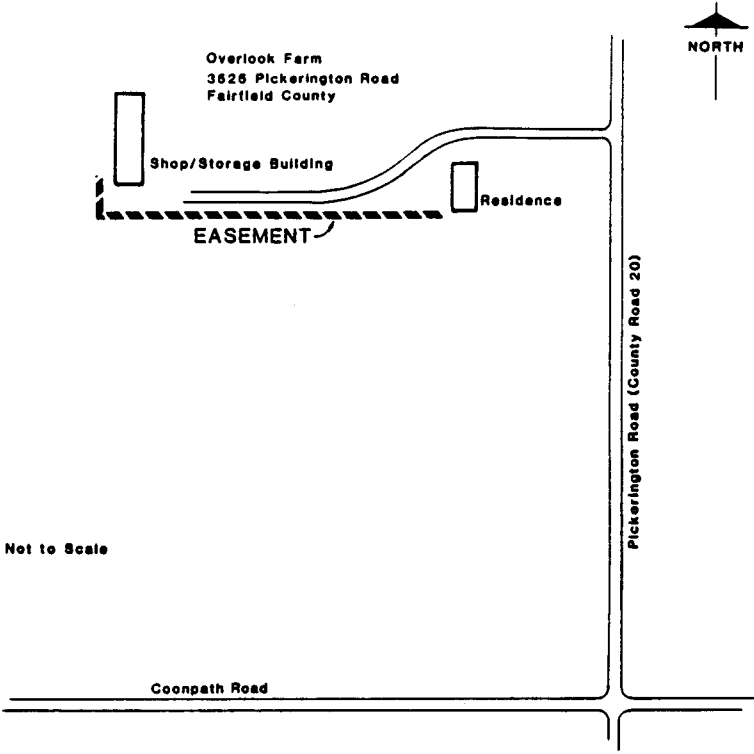
Office of Business and Administration
December 1, 1989

APPENDIX XXXXII

SOUTH CENTRAL POWER COMPANY
EASEMENT RENEWAL AT OVERLOOK FARM

Adopted by the Board of Trustees December 1, 1989
(See page 593)

South Central Power Company Easement Renewal at Overlook Farm



Office of Business and Administration
December 1, 1989

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RECORD OF PROCEEDINGS
OF THE
BOARD OF TRUSTEES
OF THE
OHIO STATE UNIVERSITY

COLUMBUS

July 1, 1989 to June 30, 1990

VOLUME 2

1989-1990

THE OHIO STATE UNIVERSITY

Edward H. Jennings, President

BOARD OF TRUSTEES

	<u>Term Beginning</u>	<u>Term Expiring</u>
John W. Berry, Dayton	May 14, 1981	May 13, 1990
Shirley D. Bowser, Williamsport	May 14, 1982	May 13, 1991
Hamilton J. Teaford, Columbus	May 14, 1983	May 13, 1992
John J. Barone, Toledo	May 14, 1984	May 13, 1993
Deborah E. Casto, Columbus	May 14, 1985	May 13, 1994
John W. Kessler, Columbus	May 14, 1986	May 13, 1995
Milton A. Wolf, Cleveland	May 14, 1987	May 13, 1996
Leslie H. Wexner, Columbus	May 14, 1988	May 13, 1997
Alex Shumate, Columbus	August 10, 1989	May 13, 1998
Theodore S. Celeste, Columbus	June 19, 1990	May 13, 1999
Laurel A. Davis, * Tipp City	February 6, 1989	May 13, 1990
Sophia L. Paige, * Columbus	May 30, 1989	May 13, 1991
David A. Tonnies, * Lake Milton	May 14, 1990	May 13, 1992

* Student Trustee -- non voting.

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John W. Berry, Chairman
Shirley D. Bowser, Vice Chairman
Madison H. Scott, Secretary
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THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FIFTY-SEVENTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, January 5, 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 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.

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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.

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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 in here on the 7th floor. We had, what I expect, at some point in time, a titlwave 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.

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 XXXXIII for Transparencies, page 651.)

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

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:

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.

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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 Calita 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 Koroscik, 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.

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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:

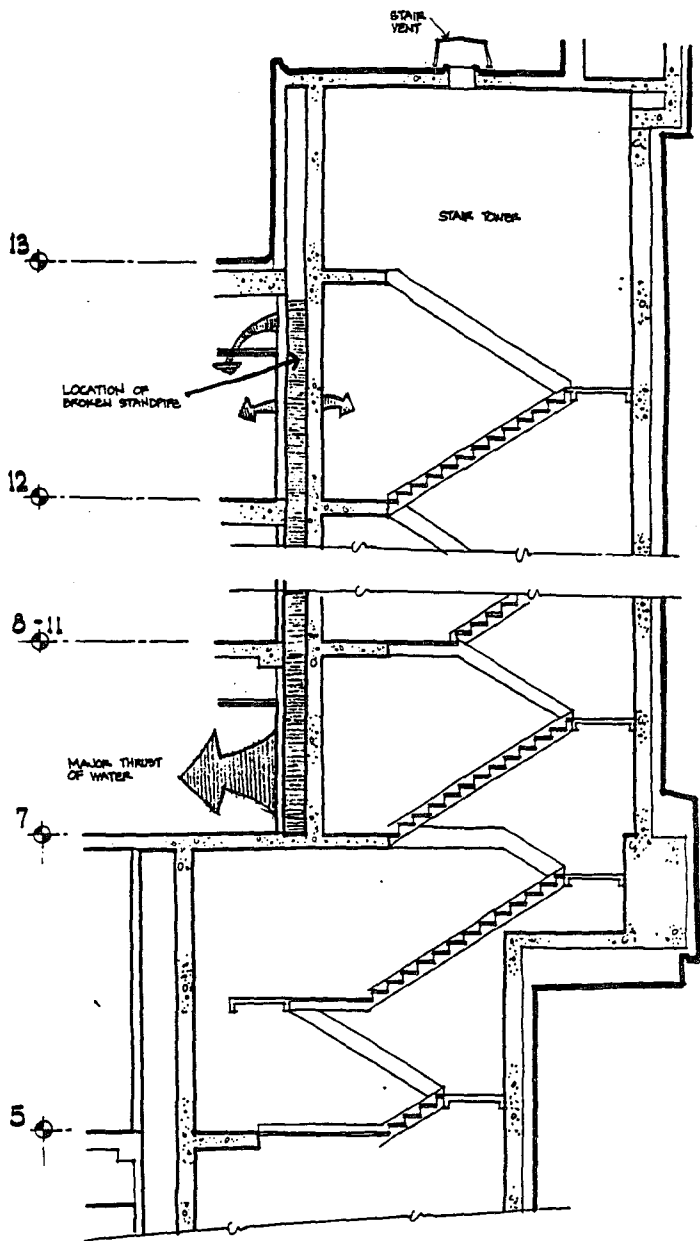
Madison H. Scott
Secretary

John W. Berry
Chairman

APPENDIX XXXXIII

TRANSPARENCIES

**Presented to the Board of Trustees January 5, 1990
(See page 640)**



SECTION AT EAST STAIR

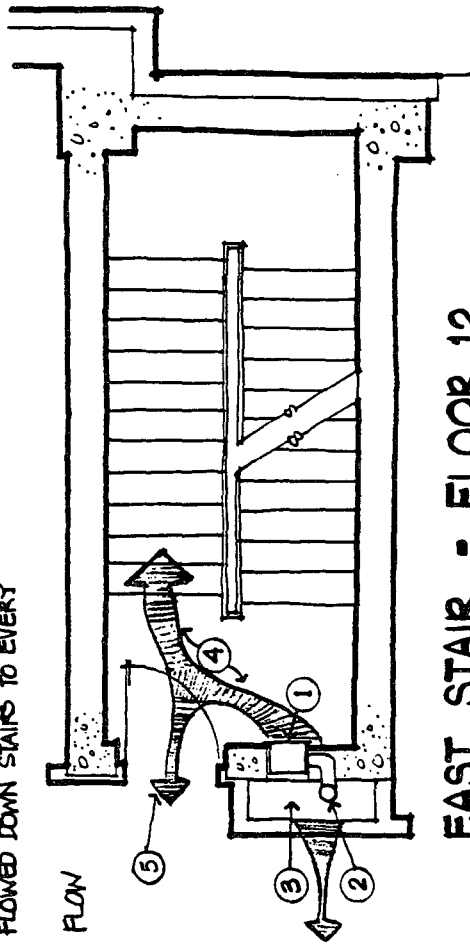
① FIRE HOSE CABINET - FED FROM STANDPIPE

② STANDPIPE - BREAK AT THIS LINE FROM COLD

③ FIRE SHAFT ENCLOSURE - LARGE PORTION OF WATER FROM BREAK FLOWED DOWN SHAFT TO SEVENTH FLOOR

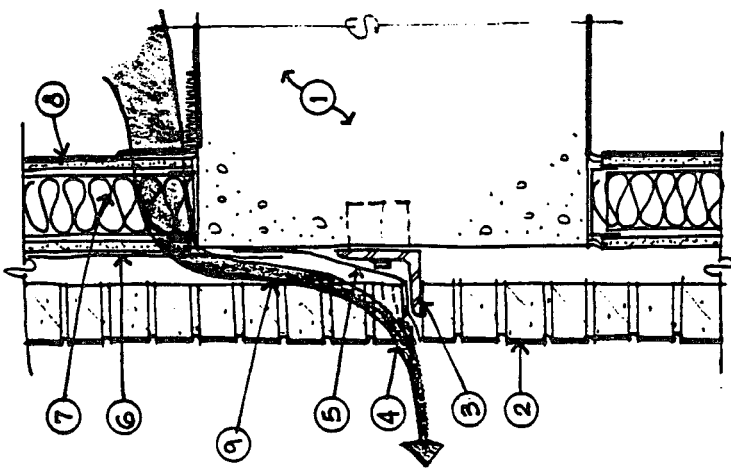
④ STAIR SHAFT - REMAINING WATER FROM BREAK FLOWED DOWN STAIRS TO EVERY FLOOR

⑤ WATER FLOW



EAST STAIR - FLOOR 12

- ① CONCRETE STRUCTURE
- ② FACE BRICK
- ③ RELIEF ANGLE
- ④ WEEP HOLES
- ⑤ FLASHING
- ⑥ DAMPROOFING 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 OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FIFTY-EIGHTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, February 2, 1990

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.

** ** **

February 2, 1990 meeting, Board of Trustees

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.

Present: Shirley D. Bowser, Vice Chairperson, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Alex Shumate, and Laurel A. Davis.

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

Mr. Whitmer: (contd)

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.

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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.

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.

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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.

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.

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 Beechwood 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?

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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 XXXXIV for complete text of The Ohio State University Endowment Summary, January 19, 1990, page 731.)

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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.

ACADEMIC AFFAIRS COMMITTEE REPORT (contd)

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 (NFQF) applications for Summer and Winter Quarters has increased significantly and the admission of NFQF 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

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.

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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.

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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.

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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

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.

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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.

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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.

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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.

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. BONDYBEY, 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.

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.

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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 attend 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.

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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.

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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 XXXV 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.

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

SUMMARY FOR NOVEMBER 1989

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	85	\$8,100,313.66
Engineering Experiment Station	58	\$ 860,866.00
Total	143	\$8,961,179.66
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

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

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	82	\$6,713,850.68
Engineering Experiment Station	38	\$ 211,180.00
Total	120	\$6,925,030.68

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

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
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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
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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

Report - November 1989

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)

\$369,000.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Financial Resources Management (FIRM) Project, Department of Agricultural Economics and Rural Sociology (R. L. Meyer), 30 September 1989 through 31 December 1989. (Project 767920 - New)

\$257,200.00 - National Science Foundation, Washington, D.C., Graduate Research Fellowship Program, Graduate School Administration (R. A. Koenigsnecht), 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)

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 Archaeobacterium, 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 Archaeobacterial 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. Altan), 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)

\$65,000.00 - Department of Energy, Argonne, Illinois, High Energy Physics -- Experimental Program (Task D) Electron-Positron Collisions, Department of Physics (H. P. Kagan and R. D. Kass), 1 January 1989 through 31 December 1989. (Project 762116 - Continuation)

\$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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

\$34,200.00 - Department of Agriculture, Economic Research Service, Washington, D.C., Food Consumption in People's Republic of China, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (W. S. Chern), 2 September 1988 through 31 January 1991. (Project 767917 - New)

\$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)

\$25,000.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Modern Techniques in Soil Ecology Relevant to Organic Matter Break-down, Nutrient Cycling, and Soil Biological Processes, Department of Entomology (C. A. Edwards), 14 September 1989 through 30 March 1990. (Project 767797 - New)

\$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)

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)

\$3,720.00 - Department of Agriculture, Office of International Cooperation and Development, Washington, D.C., International Science and Education Council Conference Proceedings: International Agricultural Research, Department of Plant Pathology (C. R. Curtis), 18 September 1989 through 30 June 1990. (Project 767926 - New)

TOTAL - FEDERAL AWARDS **\$5,731,710.00**

State of Ohio Research Contracts/Grants

\$250,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Improving Freezer Preserve Strawberry Quality and Yield: An Interdisciplinary Approach, Department of Horticulture - OARDC (G. A. Cahoon, J. C. Scheerens, M. S. Biggs, D. C. Ferree, J. F. Gallander, A. R. Miller, and W. T. Rhodus), 1 January 1989 through 31 December 1992. (Project 767186 - Continuation)

\$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 767858 - 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)

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

\$500,000.00 - The J. M. Smucker Company, Orrville, Ohio, Improving Freezer Preserve Strawberry Quality and Yield: An Inter-disciplinary Approach, Department of Horticulture - OARDC (G. A. Cahoon, J. Scheerens, M. S. Biggs, D. C. Ferree, J. F. Gallander, A. R. Miller, and W. T. Rhodus), 1 January 1989 through 31 December 1992. (Project 767187 - Continuation)

\$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)

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)

\$4,000.00 - Chronicle Guidance Publications, Inc., Moravia, New York, Federal and National Agency and Organization Marketing and Networking, Center on Education and Training for Employment (R. D. Ryan), 1 October 1989 through 31 March 1990. (Project 767910 - 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 1985 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 - GeoVision Systems, Inc., Englewood, Colorado, 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)

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

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)

\$44,058.00 - University of Minnesota, St. Paul, Minnesota, Participation in U.S. Department of Education Technology, Educational Media, and Materials for the Handicapped Program, Biomedical Engineering Center (M. B. Waldron), 1 October 1989 through 31 March 1991. (Project 767900 - New)

\$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. Hoitink), 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 - American College of Obstetricians and Gynecologists, Philadelphia, Pennsylvania, Clinical Trials in Gynecologic Oncology, Department of Obstetrics and Gynecology (L. J. Copeland), 1 July 1989 through 30 April 1990. (Project 767936 - New) (Approximate Dollar Value - \$32,000)

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)

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.

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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.

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.

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.

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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.

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.

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.

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - December 1989

Federal Research Contracts/Grants

\$774,440.00 - Department of Health and Human Services, National Institute on Aging, Bethesda, Maryland, NLS Resurvey: Older Male Survivors and Decedents' Widows, Center for Human Resource Research (H. S. Parnes), 1 December 1989 through 30 November 1990. (Project 767203 - Continuation)

\$655,673.00 - 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), 1 December 1989 through 30 November 1990. (Project 760043 - Continuation)

\$370,000.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Services to Deaf-Blind Children and Youth -- Technical Assistance to States, Education Administration (K. D. Arnold), 1 October 1989 through 30 September 1990. (Project 767864 - Continuation)

\$360,000.00 - 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), 1 October 1989 through 30 September 1990. (Project 767124 - Continuation)

\$283,332.00 - 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.), 1 November 1989 through 31 October 1990. (Project 766822 - Continuation)

\$283,103.00 - 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)

\$185,812.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Neurotransmitters and Inflammatory Mediators in Tooth Movement, Orthodontics (Z. Davidovitch), 1 December 1989 through 30 November 1990. (Project 767223 - Continuation)

\$179,333.00 - 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)

\$175,921.00 - 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. Duskotch) and Department of Pathology (R. E. Stephens), 1 December 1989 through 30 November 1990. (Project 767168 - Continuation)

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 766676 - Continuation)

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)

\$63,635.00 - National Science Foundation, Washington, D.C., Continued Investigation of the Extraordinary Katabatic Winds at Terra Nova Bay, Byrd Polar Research Center (D. H. Bromwich), 1 June 1990 through 31 May 1991. (Project 767981 - New)

\$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)

\$35,500.00 - National Science Foundation, Washington, D.C., Arithmetic of Function Fields over Finite Fields, Department of Mathematics (D. M. Goss), 17 August 1989 through 30 November 1991. (Project 767967 - New)

\$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)

\$14,585.00 - 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 Unstructured Uncertainty, Department of Aeronautical and Astronautical Engineering (R. K. Yedavalli), 30 September 1989 through 1 March 1990. (Project 766964 - Continuation)

\$14,346.00 - Department of Health and Human Services, Office of Human Development Services, Administration for Children, Youth, and Families, Chicago, Illinois, Child Welfare Traineeship Program, College of Social Work (N. J. Rindfleisch), 1 July 1989 through 30 June 1990. (Project 767062 - Continuation)

\$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)

\$39,997.00 - Cargill, Inc., Aurora, Illinois, Sunflower Transformation Via Microprojectile Bombardment of the Shoot Apex, Department of Agronomy - OARDC (J. J. Finer), 1 September 1989 through 31 August 1991. (Project 767696 - New)

\$20,871.00 - American Cyanamid Company, Danbury, Connecticut, An Investigation of the Applications of Biofix Rods for Pediatric Applications, Department of Surgery (A. S. Litsky), 1 December 1989 through 30 November 1990. (Project 767945 - New)

\$19,551.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, Weld Imaging System for Control of Laser and Electron Beam Welding, Department of Welding Engineering (R. W. Richardson), 28 August 1989 through 31 December 1989. (Project 766726 - Continuation)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$19,372.00 - Warner-Lambert Company, Morris Plains, New Jersey, In Vitro Evaluation of Antimicrobial Activity of Four Experimental Oral Antiseptics, Oral Biology (S. Rosen), 2 January 1990 through 31 March 1990. (Project 767982 - New)

\$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)

\$18,542.00 - Wetlands Research, Inc., Chicago, Illinois, Ecosystem Design Criteria of the Des Plaines River Wetlands: Vegetation/Water Interactions, School of Natural Resources (W. J. Mitsch), 1 October 1989 through 30 September 1990. (Project 767431 - Continuation)

\$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 767976 - 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)

\$39,200.00 - Fats and Proteins Research Foundation, Fort Myers Beach, Florida, Undegradable Protein Requirements for Cows Fed High Fat Diets in Early Lactation, Department of Dairy Science - OARDC (D. L. Palmquist and W. P. Weiss), 1 January 1990 through 31 December 1991. (Project 767962 - New)

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)

\$34,970.00 - Anesthesia Patient Safety Foundation, Park Ridge, Illinois, A Corpus of Cases Analyzed Using Cognitive Science Techniques, Department of Anesthesiology and Department of Industrial and Systems Engineering (D. D. Woods), 1 January 1990 through 31 December 1990. (Project 767983 - 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. Friedenber), 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)

\$24,951.00 - American Federation for Aging Research, Inc., New York, New York, Glucocorticoids and the Aging Hippocampus, Biotechnology Program (J. N. Masters), 1 November 1989 through 31 October 1990. (Project 767951 - New)

\$23,956.00 - Circleville Water Authority, Circleville, Ohio, Delineation of Travelttime-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)

\$22,500.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Developmental Regulation of a Glucocorticoid Inducible Gene, Biotechnology Program (A. P. Young), 1 October 1989 through 30 June 1990. (Project 767968 - New)

\$20,888.00 - National Training Fund for the Sheet Metal and Air-Conditioning Industry, Alexandria, Virginia, Reading and Mathematics Competencies Needed for Successful Entry and Progression Through Joint Labor-Management Sponsored Sheet Metal Apprenticeship Training, Center on Education and Training for Employment (R. D. Ryan), 1 January 1990 through 31 August 1990. (Project 767960 - New)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$20,587.00 - National Training Fund for the Sheet Metal and Air-Conditioning Industry, Alexandria, Virginia, Traditional Versus Concentrated Apprenticeship Training Delivery Modes in Joint Labor-Management Sector of the Sheet Metal and Air-Conditioning Industry, Center on Education and Training for Employment (R. D. Ryan), 1 October 1989 through 31 March 1990. (Project 767959 - New)

\$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

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)

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.

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.

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.

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.

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.

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.

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.

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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.

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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 XXXXVI 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.

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**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

**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

**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.

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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).

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 XXXXVIII 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.

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.

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**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.)

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**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.)

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**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

**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.)

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**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.

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**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.

**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?

**Adoption of the Master Plan Update and Noise Compatibility Study
for The Ohio State University Airport (contd)**

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.

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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 Tzagourmis, 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.

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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.

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/adoption:

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.

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 XXXXIV

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)



Office of the Treasurer

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THE OHIO STATE UNIVERSITY
ENDOWMENT SUMMARY
January 19, 1990

Endowment Composition

	Percent of Equity and Fixed Income		Percent of Equity and Fixed Income	
	<u>06-30-89</u>	<u>Portfolio</u>	<u>01-19-90</u>	<u>Portfolio</u>
Equities:				
Chicago Corp.	\$ 34,629,320	13.98%	\$ 36,006,180	13.72%
R. Meeder	-0-	-0-	12,861,098 (1)	4.90
Neuberger & Berman	13,552,018	5.47	13,645,571	5.20
Nicholas-Applegate	11,475,663	4.63	12,969,406	4.94
Siebel	32,173,227	12.98	33,687,589	12.84
University Managed	80,168,113	32.35	34,898,078	13.30
Wells Fargo EAFE	-0-	-0-	10,451,566 (2)	3.99
Wells Fargo S&P 500	-0-	-0-	29,308,352 (3)	11.17
Total Equities	\$171,998,341	69.41%	\$183,827,840	70.06%
Fixed Income:				
Boatmen's Trust	\$ 23,841,580	9.62%	\$ 23,302,788	8.88%
Cambridge	951,048	0.38	938,551	0.36
Duff & Phelps	10,243,208	4.13	10,207,237	3.89
WR Lazard	-0-	-0-	9,950,094 (4)	3.79
SIW Fixed Income	24,150,270	9.75	23,718,702	9.04
University - GNMA	10,144,887	4.10	10,138,794	3.86
University Managed	6,465,211	2.61	305,250	0.12
Total Fixed Income	\$ 75,796,204	30.59%	\$ 78,561,416	29.94%
Total Equities & Fixed Income	\$247,794,545	100.00%	\$262,389,256	100.00%
Real Estate	\$ 39,503,844		\$ 39,698,346	
Total Portfolio	\$287,298,389		\$302,087,602	

- (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

	<u>% Yield</u>	<u>% Change in Market Value January '89 to January '90</u>	<u>Total Estimated Return</u>
Equity:			
Chicago Corp.	2.93% (1)	16.19%	19.12%
R. Meeder	0.96 (2)	(14.26)	(13.30) (13)
Neuberger & Berman	2.77	14.23	17.00
Nicholas-Applegate	1.38 (3)	23.01	24.39
Siebel	5.06 (4)	18.49	23.55
University Managed	2.22 (5)	15.67	17.89
Wells Fargo EAFE	0.50	4.52	5.02 (14)
Wells Fargo S&P 500	1.01	(2.31)	(1.30) (15)
Standard & Poor's Index	3.97	18.32	22.29
Real Estate:	3.85%	8.42%	12.27%
Fixed Income:			
Boatmen's Trust	7.85% (6)	6.55%	14.40%
Cambridge	8.25 (7)	1.82	10.07
Duff & Phelps	8.12 (8)	3.97	12.09
WR Lazard	3.84 (9)	(0.50)	3.34 (13)
SIW Fixed Income	8.77 (10)	5.20	13.97
University - GNMA	9.72 (11)	3.34	13.06
University Managed	12.63 (12)	(7.38)	5.25
Merrill Lynch Corporate/ Government Master	9.01	3.14	12.15
Shearson Lehman Hutton Government/ Corporate Index	9.19	5.05	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 SIW 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 \$8,380,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>01-19-90</u>	<u>Percent of Portfolio</u>
Market Value (06-30-89)	\$287,298,389	Equities	\$163,970,076	54.28%
Principal Additions	13,634,551	Fixed Income	76,551,933	25.34
Principal Withdrawals	(280,000)	Real Estate	39,600,000	13.11
Change in Market Value	<u>1,434,662</u>	Cash	<u>21,965,593</u>	<u>7.27</u>
Current Market Value	<u>\$302,087,602</u>	Total Portfolio	<u>\$302,087,602</u>	<u>100.00%</u>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
------------------	--------------------------------	----------------	------------------

No Activity

Real Estate

Sale

Total Investment

No Activity

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
4,500	Aon Corp.	Chicago	40.9300	\$ 184,477.50	\$ 6,300.00
5,900	Lance, Inc.	"	23.2986	137,698.00	4,484.00
1,000	United Stationers, Inc.	"	13.0000	13,000.00	400.00
10,700	Northern Tele- communications Ltd.	Nicholas- Applegate	24.1836	259,406.30	2,996.00
8,300	Novell, Inc.	"	32.9849	273,775.00	0.00
4,200	Tandem Computers, Inc.	"	24.5000	103,152.00	0.00
9,000	Total Petroleum, Inc.	"	27.7500	250,290.00	7,200.00
12,200	Primerica Corp.	Siebel	27.3820	334,914.40	3,904.00
1,563	Banc One Corp.*	University Managed	30.9975	48,449.07	1,625.52
6	Commonwealth Edison Co.*	"	21.3750	128.25	18.00
560	General Electric Co.*	"	63.3750	35,490.00	1,052.80
500	General Motors Corp.*	"	42.3125	21,256.25	1,500.00
18	General Motors Corp., Cl. E*	"	54.2500	976.50	17.28
18	General Motors Corp., Cl. H*	"	25.5628	460.13	12.96
160	Huntington Bancshares*	"	20.0000	3,200.00	118.40
2,500	Lancaster Colony Corp.*	"	25.1250	62,812.50	1,900.00
100	MCI Communications Corp.*	"	43.3750	4,337.50	0.00
1	NICOR, Inc.*	"	42.0000	42.00	2.00
407	Rockwell International Corp.*	"	22.1250	9,004.88	317.46
100	VF Corp.*	"	33.0625	3,306.25	100.00
250	Wendy's International, Inc.*	"	4.8125	<u>1,203.13</u>	<u>60.00</u>
				<u>\$1,747,379.66</u>	<u>\$32,008.42</u>

* Gift

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
7,000	Bob Evans Farms, Inc.	Chicago	13.8750 \$	97,125.00	\$ (3,574.57)
1,400	Time-Warner, Inc.	"	122.8750	171,928.26	13,759.20
4,950	Comcast Corp.	Nicholas- Applegate	14.6420	72,477.95	(12,909.55)
4,700	Community Psychiatric Centers	"	26.6301	124,875.11	11,804.75
2,600	Costco Wholesalers Corp.	"	32.5861	84,723.80	25,019.71
1,500	Disney (Walt) Co.	"	109.8236	164,639.89	66,820.12
3,900	Lotus Development Corp.	"	26.7723	104,412.07	(2,606.01)
7,600	MCI Communications Corp.	"	40.3529	306,681.80	193,772.36
2,000	Neiman Marcus Group, Inc	"	18.3094	36,497.66	2,875.24
9,000	Oracle Systems Corp.	"	21.4208	192,786.80	64,696.01
10,000	Norton Co.	Siebel	59.2500	591,880.25	84,400.25
200	Allergan, Inc.*	University Managed	17.1250	3,394.88	(167.62)
73	Beckman Instruments*	"	17.8750	1,290.96	(45.85)
330	Bob Evans Farms, Inc.*	"	13.8995	4,586.82	29.57
6	Commonwealth Edison Co.*	"	20.9999	124.79	(3.46)
100	Exxon Corp.*	"	50.8750	5,072.33	184.83
560	General Electric Co.*	"	65.8750	36,856.77	1,366.77
18	General Motors Corp., Cl. E*	"	54.5021	977.40	0.90
18	General Motors Corp., Cl. H*	"	25.2511	450.90	(9.23)
1,000	Mesa Limited Partnership*	"	8.9027	8,060.43	(5,627.07)
407	Rockwell International Corp.*	"	23.0000	9,328.68	323.80
500	Standard Products Co.*	"	22.2500	11,092.62	(2,782.38)
100	VF Corp.*	"	32.7500	3,254.89	(51.36)
				<u>\$2,032,520.06</u>	<u>\$437,276.41</u>

* Gift

The Ohio State University

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
1,000,000	Community Program Loan Trust 4.500% 10/01/18	Boatmen's	7.3327	7.9292	61.3690	\$ 613,690.00
1,100,000	U.S. Treasury Note 8.125% 02/15/98	Duff & Phelps	8.1275	8.1283	99.9687	1,099,656.25
1,000,000	Security Pacific National Bank 9.750% 05/15/99	SIW	9.4730	9.2726	102.9240	1,029,240.00
3,700,000	U.S. Treasury Bond 9.250% 02/15/16	"	8.2855	8.1639	111.6406	<u>4,130,703.13</u>
						<u>\$6,873,289.38</u>

The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
410,000	U.S. Treasury Bond 8.875% 08/15/17	Boatmen's	107.7500	\$ 441,775.00	\$40,890.27
925,000	U.S. Treasury Bond 8.125% 08/15/19	Cambridge	101.4375	938,296.88	(16,042.96)
1,000,000	U.S. Treasury Note 7.125% 10/15/93	Duff & Phelps	97.1562	971,562.00	29,687.00
1,000,000	U.S. Treasury Note 8.875% 11/15/98	STW	104.8750	1,048,750.00	76,669.00
5,000,000	U.S. Treasury Bond 7.250% 05/15/16	"	90.5000	<u>4,525,000.00</u>	<u>(73,292.91)</u>
				<u>\$7,925,383.88</u>	<u>\$57,910.40</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
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
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
46.984 acres of land in Delaware County	.55	1971	100,793	641,000	06/89
Hangar at Don Scott Field (Loan)	.00	1973	27,334 (1)	27,334	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	71,012 (1)	71,012	N/A
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	283,000	06/89
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,896,000	06/89
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,367,000	06/89
76.143 acres of land, 3253 West Granville Road	.03	1968	310,538	6,853,000	06/89
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,749,000	06/89
32 acres of land, 3371 West Granville Road	.19	1986	2,078,666	2,880,000	06/89
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,080,000	06/89
8.557 acres of land, 3505 West Granville Road	.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
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	1,155,000	08/89
17.92 acres of land on Eiterman Road	.00	1978	25,152	725,000	05/88
Veterans Administration Clinic	8.08	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,329,287</u>	<u>\$39,698,346</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
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Phone 614-292-6261

MEMORANDUM

Subject: Proxy Solicitations
Date: January 31, 1990
From: James L. Nichols, Treasurer *James L. Nichols*
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.

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

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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)

THE OHIO STATE UNIVERSITY
 1989-90 CURRENT FUNDS BUDGET
 2ND QUARTER REPORT

Summary of Proposed Resources
 (In Millions of Dollars)

	Budgeted 1989-90	Estimated 1989-90	\$ Change	% Change
Central Campus				
Unrestricted General Funds	\$452.39	\$453.79	\$1.40	.3%
Earnings Operations	346.34	344.14	-2.20	-.6%
Restricted Funds	220.07	220.07	.00	.0%
Total Central Campus	\$1,018.80	\$1,018.00	\$-.80	-.1%
Regional Campuses	27.65	28.34	.69	2.5%
OARDC	33.84	33.84	.00	.0%
Grand Totals	\$1,080.29	\$1,080.18	\$-.11	.0%

UBP/February 2, 1990

THE OHIO STATE UNIVERSITY
 1989-90 CURRENT FUNDS BUDGET
 2ND QUARTER REPORT

Summary of Proposed Uses
 (In Millions of Dollars)

	Budgeted 1989-90	Estimated 1989-90	\$ Change	% Change
Central Campus				
Unrestricted General Funds	\$452.39	\$453.79	\$1.40	.3%
Earnings Operations	346.23	343.80	-2.43	-.7%
Restricted Funds	220.07	220.07	.00	.0%
Total Central Campus	\$1,018.69	\$1,017.66	\$-1.03	-.1%
Regional Campuses	27.42	27.16	-.26	-.9%
OARDC	33.84	33.84	.00	.0%
Grand Totals	\$1,079.95	\$1,078.66	\$-1.29	-.1%

UBP/February 2, 1990

THE OHIO STATE UNIVERSITY
 1989-90 CURRENT FUNDS BUDGET
 2ND QUARTER REPORT

All Funds Resources Summary
 (In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1989-90	Budgeted 1989-90
Central Campus					
State Appropriations	\$263.58	\$.00	\$39.51	\$303.09	\$304.64
Student Fees	156.57	5.00	.00	161.57	158.69
Other Resources					
Federal Grants and Contracts	17.28	.00	85.60	102.88	102.88
Ohio Grants and Contracts	.38	.00	15.16	15.54	15.53
Local Grants and Contracts	.74	.00	13.10	13.84	13.84
Private Gifts and Grants	4.05	.00	57.90	61.95	61.86
Endowment Income	1.55	.00	8.80	10.35	10.35
Department and University Services	.37	28.37	.00	28.74	28.77
Auxiliary Sales & Charges	.02	84.52	.00	84.54	86.25
Hospital Sales & Services	.00	222.45	.00	222.45	222.45
Other Sources	9.25	3.80	.00	13.05	13.54
Total Other Resources	\$33.64	\$339.14	\$180.56	\$553.34	\$555.47
Total Central Campus	\$453.79	\$344.14	\$220.07	\$1,018.00	\$1,018.80
Regional Campuses					
State Appropriations	13.41	.00	.02	13.43	13.30
Student Fees	10.19	.13	.00	10.32	9.77
Other Resources	.65	1.69	2.25	4.59	4.58
Total Regional Campuses	\$24.25	\$1.82	\$2.27	\$28.34	\$27.65
OARDC					
State Appropriations	.00	.00	21.70	21.70	21.70
Federal	.00	.00	7.60	7.60	7.60
All Other	.00	1.81	2.73	4.54	4.54
Total OARDC	\$.00	\$1.81	\$32.03	\$33.84	\$33.84
Total University					
State Appropriations	276.99	.00	61.23	338.22	339.64
Student Fees	166.76	5.13	.00	171.89	168.46
Other Resources	34.29	342.64	193.14	570.07	572.19
Total University	\$478.04	\$347.77	\$254.37	\$1,080.18	\$1,080.29

UBP/February 2, 1990

THE OHIO STATE UNIVERSITY
 1989-90 CURRENT FUNDS BUDGET
 2ND QUARTER REPORT

All Funds Uses Summary
 (In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1989-90	Budgeted 1989-90
Central Campus					
Educational & General	\$452.70	\$33.37	\$204.18	\$690.25	\$689.15
Auxiliary Enterprises					
Residence & Dining Halls	.00	37.11	.00	37.11	38.65
Intercollegiate Athletics	.00	17.93	4.00	21.93	21.93
Other Auxiliaries	1.09	30.34	.00	31.43	32.02
Total Auxiliaries	\$1.09	\$85.38	\$4.00	\$90.47	\$92.60
University Hospitals	.00	225.05	11.89	236.94	236.94
Total Central Campus	\$453.79	\$343.80	\$220.07	\$1,017.66	\$1,018.69
Regional Campuses					
Agricultural Technical Institute	5.30	.84	.67	6.81	6.57
Lima Campus	4.58	.08	.41	5.07	5.49
Mansfield Campus	4.61	.05	.40	5.06	4.94
Marion Campus	4.07	.03	.46	4.56	4.74
Newark Campus	4.76	.57	.33	5.66	5.68
Total Regional Campuses	\$23.32	\$1.57	\$2.27	\$27.16	\$27.42
GARDC	.00	1.81	32.03	33.84	33.84
Total Uses	\$477.11	\$347.18	\$254.37	\$1,078.66	\$1,079.95

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)

	All Funds	Percent of Total	Unrestr. General(4)	Percent of Total
State Appropriations	\$338.22	31.3%	\$276.99	57.9%
Federal Grants & Contracts	110.48	10.2%	17.28	3.6%
Other Government Sources	29.38	2.7%	1.12	.2%
Student Fees				
Instructional (1)	166.76	15.4%	166.76	34.9%
Non-Credit Instruction	5.13	.5%	.00	.0%
Hospitals Sales / Services	222.45	20.6%	.00	.0%
Other Sales / Services (2)	113.28	10.5%	.39	.1%
Private Gifts & Grants	61.95	5.7%	4.05	.8%
Endowment	10.35	1.0%	1.55	.3%
Other Sources (3)	22.18	2.1%	9.90	2.1%
Total	\$1,080.18	100.0%	\$478.04	100.0%

- (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.

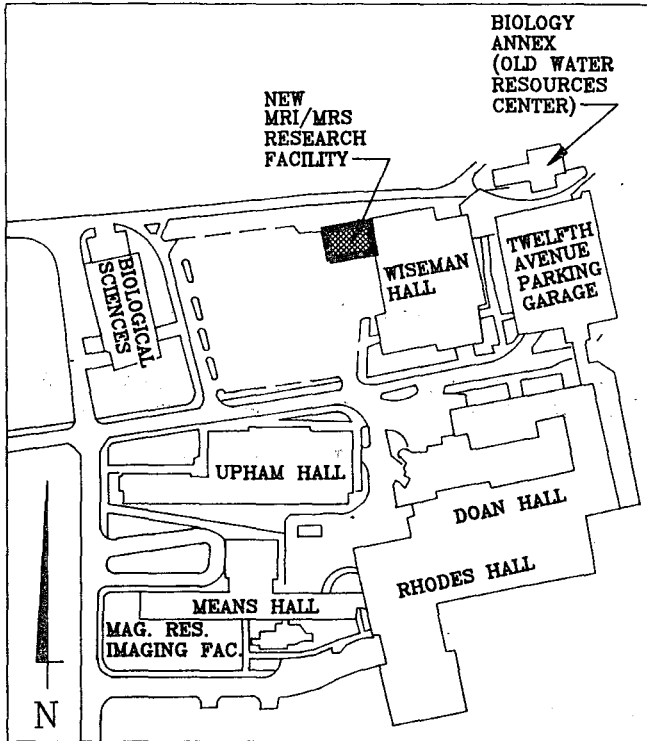
UBP/February 2, 1990

APPENDIX XXXXVI

**MAGNETIC RESONANCE IMAGING/SPECTROSCOPY FACILITY AND
RIGHTMIRE HALL RENOVATION - PHASE II, DEMOLITION**

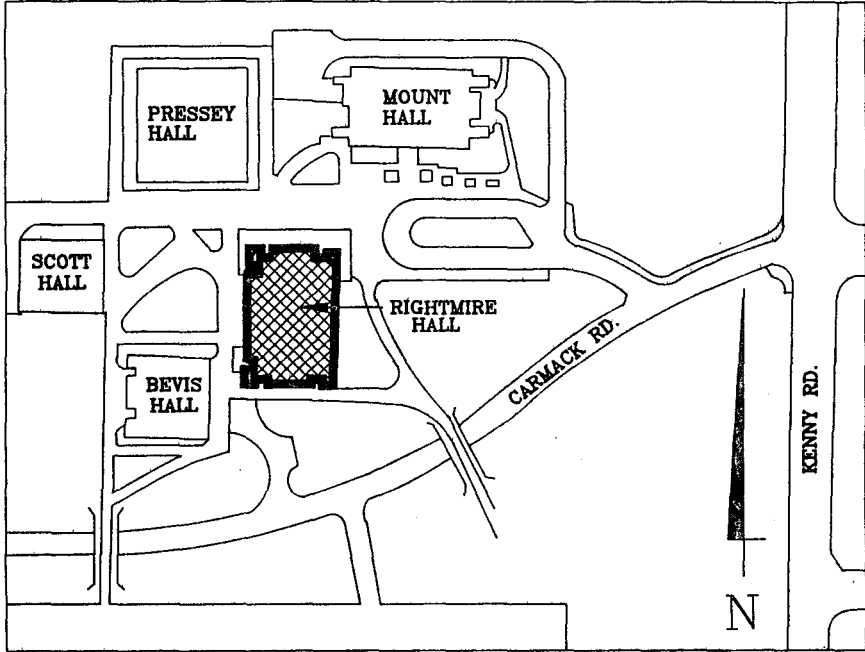
**Adopted by the Board of Trustees February 2, 1990
(See page 711)**

MAGNETIC RESONANCE IMAGING/
MAGNETIC RESONANCE SPECTROSCOPY
(MRI/MRS) RESEARCH FACILITY
ADDITION TO WISEMAN HALL



OFFICE OF BUSINESS AND ADMINISTRATION
FEBRUARY 2, 1990

RIGHTMIRE HALL RENOVATION PHASE II, DEMOLITION



OFFICE OF BUSINESS AND ADMINISTRATION
FEBRUARY 2, 1990

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APPENDIX XXXXVII

**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 FREEZER 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 "**".

<u>General Contract</u>	<u>Estimate</u>	<u>Refrigeration Sys.*</u>	<u>Cody Leigler</u>	<u>Gutknecht</u>
Base Bid	\$1,175,000.00	\$1,240,500.00	\$1,278,000.00	\$1,388,800.00
Alt. G-1 (Concrete Pavement)	15,700.00	6,765.00	54,000.00	17,000.00
Alt. G-2 (Asphalt Drive)	25,400.00	7,205.00	47,000.00	15,000.00
Alt. G-3 (Gravel Pavement)	2,000.00	3,190.00	3,000.00	2,000.00
Total General Contract	\$1,257,660.00	\$1,257,660.00	\$1,382,000.00	\$1,422,800.00
<u>General Contract (Continued)</u>	<u>Freeman Constr.</u>	<u>Messer Constr.</u>	<u>Sherman Spool</u>	
Base Bid	\$1,402,896.00	\$1,397,000.00	\$1,450,000.00	
Alt. G-1 (Concrete Pavement)	16,537.00	22,000.00	40,000.00	
Alt. G-2 (Asphalt Drive)	14,937.00	15,000.00	20,000.00	
Alt. G-3 (Gravel Pavement)	3,082.00	4,500.00	3,000.00	
Total General Contract	\$1,437,452.00	\$1,438,500.00	\$1,513,000.00	
<u>Plumbing Contract</u>	<u>Estimate</u>	<u>Heatland *</u>	<u>Farber</u>	<u>Harco</u>
Base Bid	\$52,900.00	\$38,800.00	\$45,600.00	\$46,500.00
Total Plumbing Contract	\$52,900.00	\$38,800.00	\$45,600.00	\$46,500.00
<u>Plumbing Contract (Continued)</u>	<u>Radico</u>	<u>Edmonds</u>		
Base Bid	\$49,400.00	\$59,950.00		
Total Plumbing Contract	\$49,400.00	\$59,950.00		
<u>HVAC Contract</u>	<u>Estimate</u>	<u>Farber *</u>	<u>Project Syst.</u>	<u>J. A. Guy</u>
Base Bid	\$52,500.00	\$65,500.00	\$68,300.00	\$72,400.00
Total HVAC Contract	\$52,500.00	\$65,500.00	\$68,300.00	\$72,400.00
<u>HVAC Contract (Continued)</u>	<u>Radico</u>	<u>Harco</u>	<u>Edmonds</u>	
Base Bid	\$68,300.00	\$87,000.00	\$108,000.00	
Total HVAC Contract	\$68,300.00	\$87,000.00	\$108,000.00	

February 2, 1990

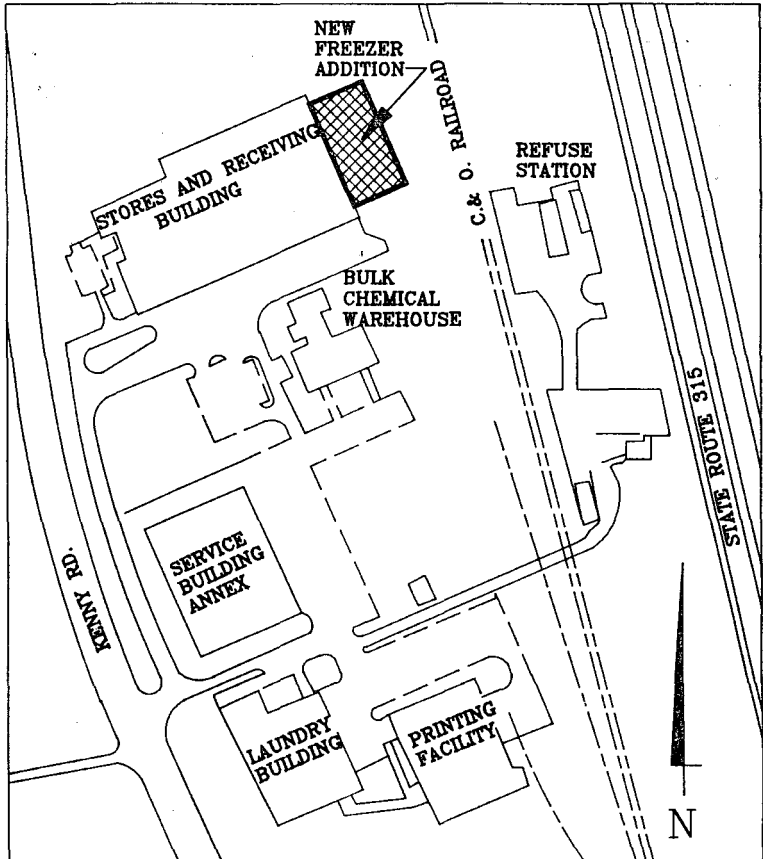
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

STORES AND RECEIVING FREEZER ADDITION (FOOD FACILITY)

Tabulation of Bids (Continued)

<u>Electric Contract</u>	<u>Estimate</u>	<u>Buckeye *</u>	<u>Jess Howard</u>	<u>Romanoff</u>
Base Bid	\$217,800.00	\$197,999.00	\$235,300.00	\$246,400.00
Total Electric Contract	\$217,800.00	\$197,999.00	\$235,300.00	\$246,400.00
<u>Electric Contract (Continued)</u>	<u>Reco</u>	<u>Goodin</u>	<u>Staten</u>	
Base Bid	\$258,300.00	\$260,250.00	\$271,000.00	
Total Electric Contract	\$258,300.00	\$260,250.00	\$271,000.00	

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

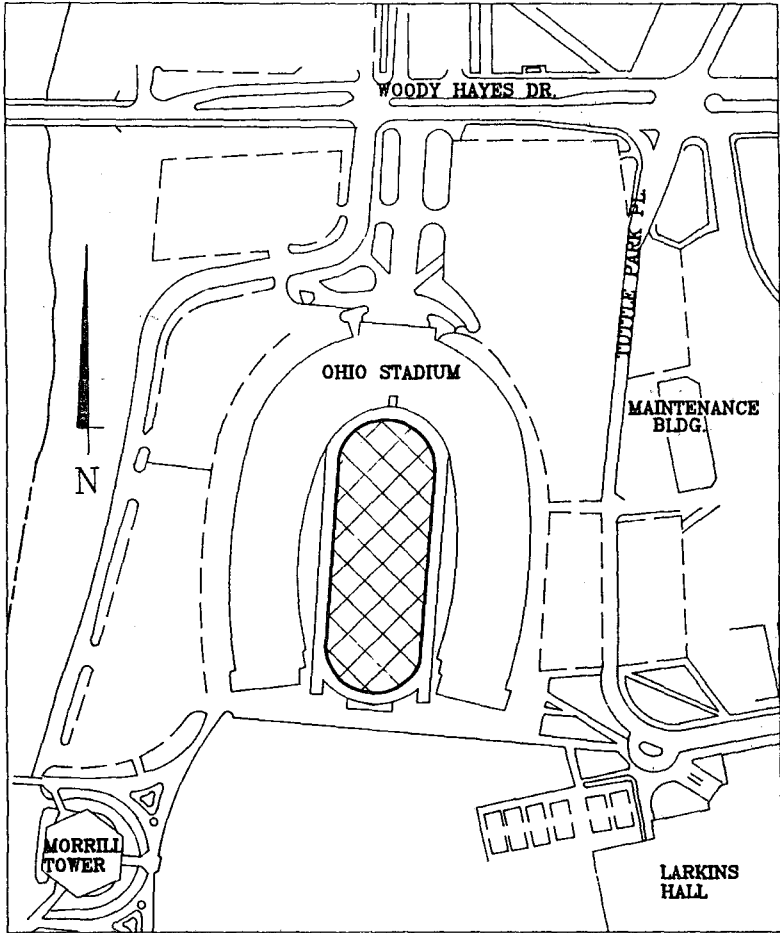
OHIO STADIUM TURF REPLACEMENT

Tabulation of Bids

Bids received by The Ohio State University on November 14, 1989. Bids opened by Tamara Bell and tabulated by Ray Vanscik. Awards indicated with an "**".

<u>Site Work Contract</u>	<u>Estimate</u>	<u>George Igel *</u>	<u>F. Buddie</u>	<u>Strauser</u>
Base Bid	\$170,000.00	\$158,300.00	\$167,215.00	\$171,895.00
Alt. SW-1 (Salvage of Asphalt Concrete)	7,500.00	6,300.00	12,000.00	9,736.00
Total Site Work Contract	\$177,500.00	\$164,600.00	\$179,215.00	\$181,631.00
<u>Site Work Contract (Continued)</u>	<u>Righter</u>	<u>Concrete Constr.</u>	<u>Exco</u>	<u>Complete General</u>
Base Bid	\$175,077.00	\$180,000.00	\$197,700.00	\$210,000.00
Alt. SW-1 (Salvage of Asphalt Concrete)	14,162.00	12,000.00	7,400.00	6,500.00
Total Site Work Contract	\$189,239.00	\$192,000.00	\$205,100.00	\$216,500.00
<u>Turf Contract</u>	<u>Estimate</u>	<u>Turf Services *</u>		
Base Bid	\$584,000.00	\$604,335.00		
Total Turf Contract	\$584,000.00	\$604,335.00		
<u>Storm Sewer Contract</u>	<u>Estimate</u>	<u>Concrete Constr. *</u>	<u>Righter</u>	<u>Igel</u>
Base Bid	\$155,000.00	\$124,000.00	\$125,777.00	\$133,000.00
Total Storm Sewer Contract	\$155,000.00	\$124,000.00	\$125,777.00	\$133,000.00
<u>Storm Sewer Contract (Continued)</u>	<u>Exco</u>	<u>Smith & Bruce</u>	<u>Complete General</u>	
Base Bid	\$143,700.00	\$149,000.00	\$167,000.00	
Total Storm Sewer Contract	\$143,700.00	\$149,000.00	\$167,000.00	

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

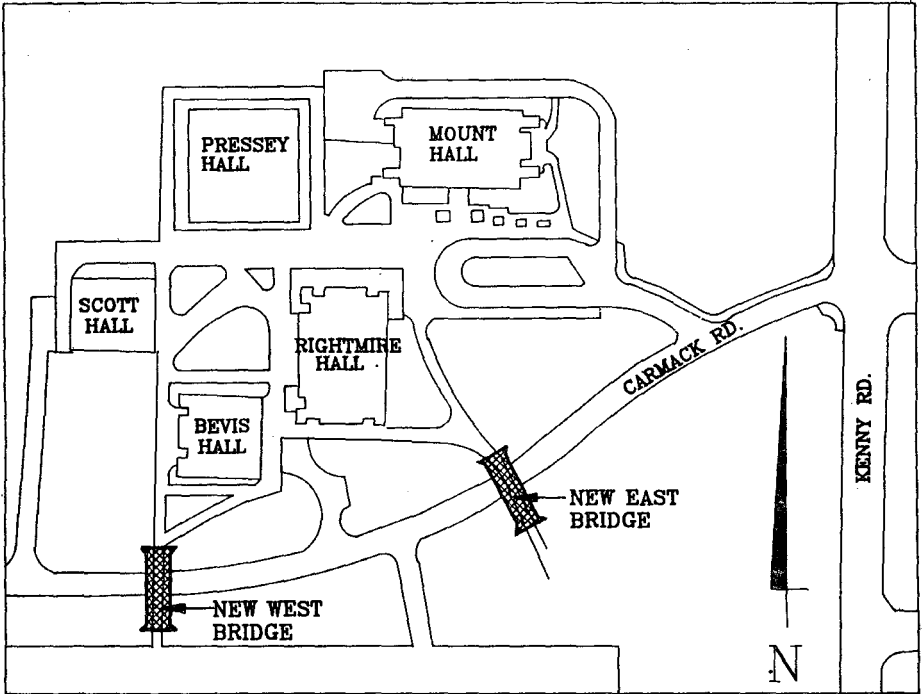
WEST CAMPUS BRIDGES

Tabulation of Bids

Bids received by The Ohio State University on November 28, 1989. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Contractors Unlin. *</u>	<u>Righter</u>
Base Bid	\$127,000.00	\$94,500.00	\$100,700.00
Total General Contract	\$127,000.00	\$94,500.00	\$100,700.00

WEST CAMPUS BRIDGES



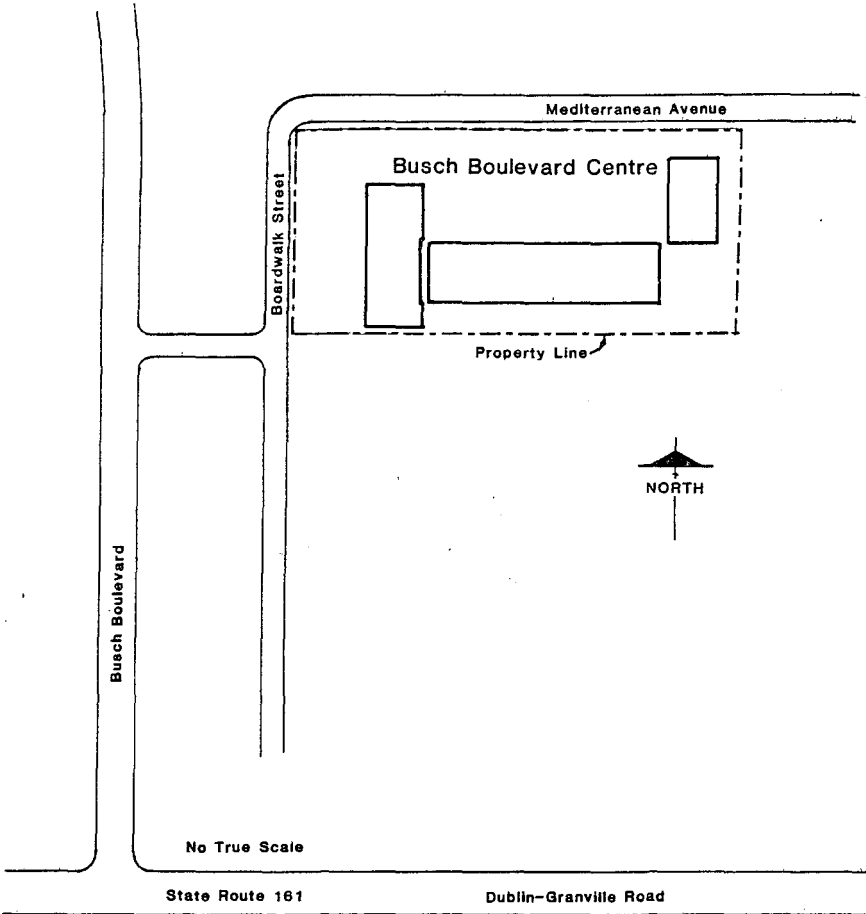
OFFICE OF BUSINESS AND ADMINISTRATION
FEBRUARY 2, 1990

APPENDIX XXXXVIII

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



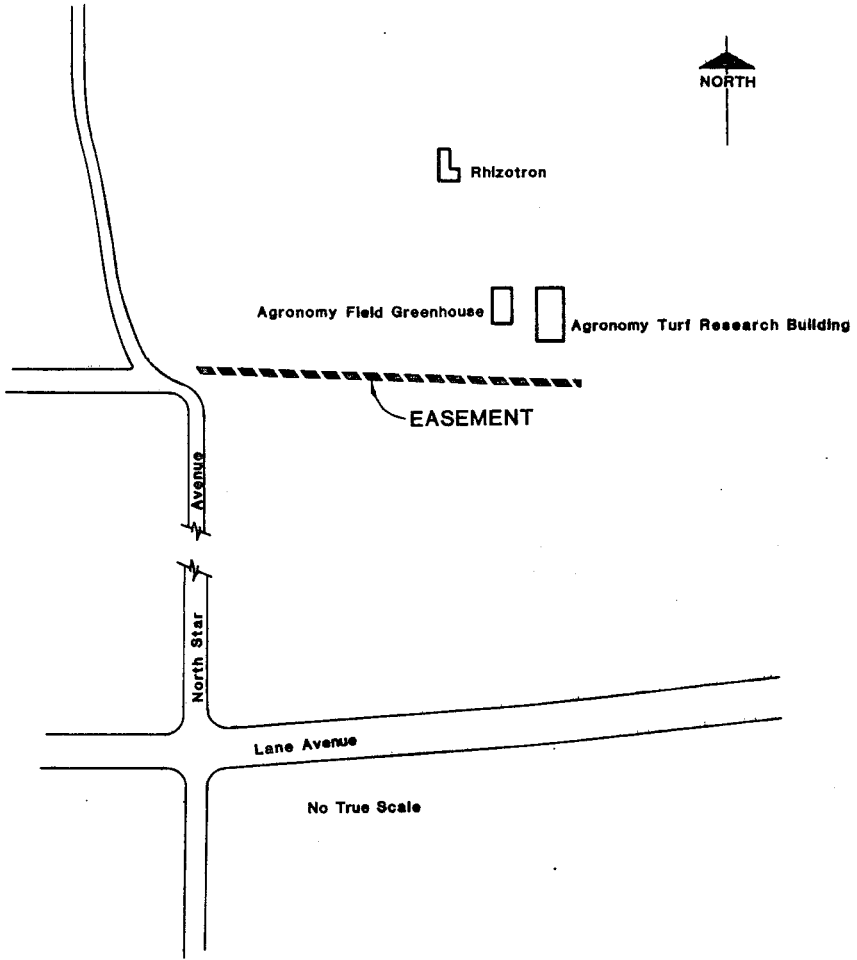
Office of Business and Administration
February 2, 1990

APPENDIX XXXXVIV

COLUMBUS SOUTHERN POWER COMPANY
EASEMENT RENEWAL

Adopted by the Board of Trustees February 2, 1990
(See page 717)

Columbus Southern Power Company Easement Renewal



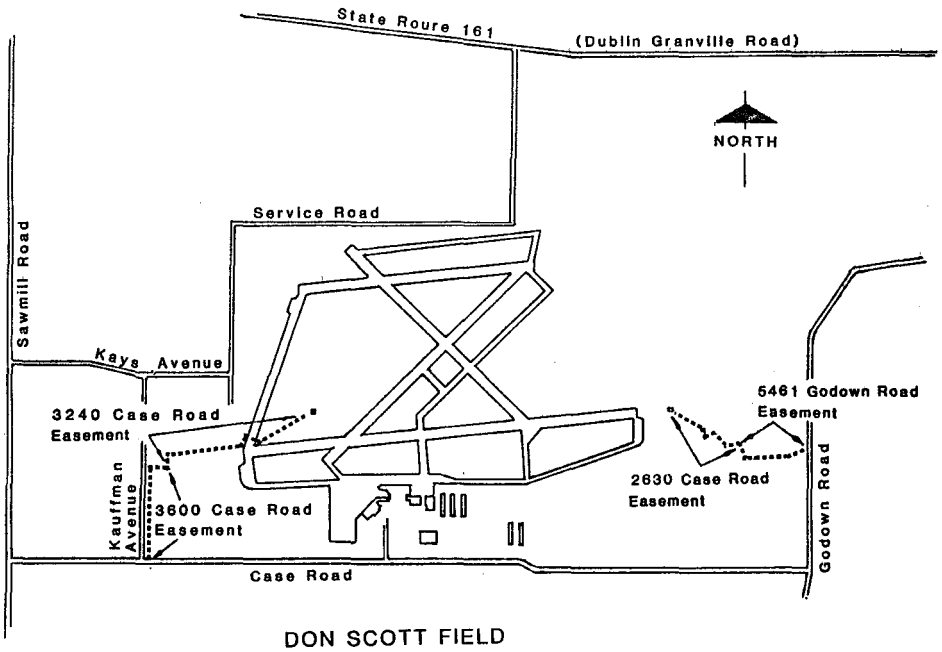
Office of Business and Administration
February 2, 1990

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



No True Scale

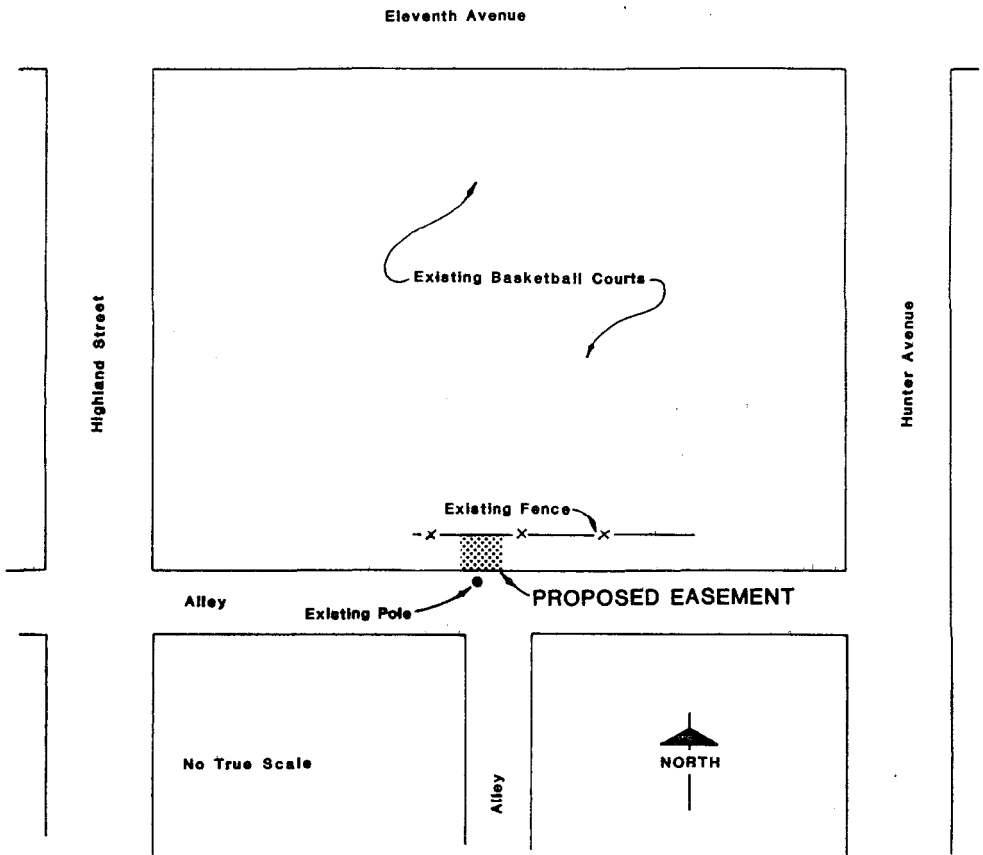
Office of Business and Administration
February 2, 1990

APPENDIX LI

OHIO BELL TELEPHONE COMPANY EASEMENT

Adopted by the Board of Trustees February 2, 1990
(See page 719)

Ohio Bell Telephone Company Easement



Office of Business and Administration
February 2, 1990

APPENDIX LII
Degrees Conferred at
THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION
March 16, 1990

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Commencement Speaker

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. Koenigsnecht

Doctor of Philosophy

Bassam Abdel-Karim Abdel-Rahim Abu-Hijleh, Amman, Jordan; B.S.M.E., M.S.; *Mechanical Engineering*
Dr. Mohammad Samimy

Mansab Ali, Rashida/Chiniot, Pakistan; B.Sc.Agric., M.Sc.Agric. (University of Agriculture, Faisalabad); *Agronomy*
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 P. 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. Simmt

Jeffery 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-Hwang 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. Prabhat K. Gupta

Kimberly Ann Caris, Galion; B.S., M.A.; *Psychology*
Dr. David Hotherhall

Catherine Grace Carnot, Kaukauna, WI; B.S. (Carroll College); M.A.; *Psychology*
Dr. Thomas Ostrom

Evalyn 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. June K. Lee

Hyeongjin Cho, Seattle, 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. June K. Lee

Anne Spencer Davis, Longmeadow, MA; B.B.A. (Western Michigan University); M.S.I.M. (Georgia Institute of Technology); *Business Administration*
Dr. John P. Wanous

Kristen Emily Davis, Tampa, FL; B.A. (Oakwood College); M.A.; *Psychology*
Dr. Pamela S. Highten

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. Fechheimer

Tiliang Deng, Echeng, P.R.C.; 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 Ettetfagh, Tehran, Iran; B.S. (Lamar University); M.S.; *Mechanical Engineering*
Dr. Kambiz Vajai

Kevin Michael Fire, Tallmadge; B.A., M.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. Wigtli

Stuart Dale Frank, Columbus; B.S., M.S. (University of Nebraska); *Agricultural Economics and Rural Sociology*
Dr. Dennis R. Henderson

William Lee Frost-Kumpff, Madison, WI; B.A., M.P.A. (University of Cincinnati); *Public Policy and Management*
Dr. Robert W. Backoff

Kathleen Ann Fuller, Cambridge; B.S. Al.Hth.Prof., *Medical Microbiology and Immunology*
Dr. Caroline C. Whitacre

Wojciech Jerzy Gajda, Poznań, Poland; M.S. (Adam Mickiewicz University); *Mathematics*
Dr. Zbigniew Fiedorowicz

Jon 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. Saif

John Jay Hegseth, Northfield, MN; B.S. (University of Wisconsin at River Falls); *Physics*
Dr. Claude D. Anderock

Joseph Eugene Heimlich, Attica; B.A. (Capital University); M.A.; *Education*
Dr. David L. Boggs

Judith Savage Hoeffler, Columbus; B.A.Jour., M.A.; *Communication*
Dr. James L. Golden

Tien-Tzu Hou, Taipei, Taiwan, R.O.C.; B.S. (Tunghai University); *Physiology*
Dr. Jack A. Rall

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., M.S. (University of Georgia); *Human Ecology*
Dr. Lucy R. Sibley

Huei-Yann Jeng, Chia-Yi, Taiwan, R.O.C.; B.S., M.S. (National Chung-Hsing University); *Agricultural Economics and Rural Sociology*
Dr. Leroy J. Hushak

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, Gahanna, B.S. (Bowling Green State University); *Molecular Genetics*
Dr. George A. Marzluf

Grigorios Dimitriou Krey, Kavála, Greece; B.S. (School of the Ozarks); *OSU Biochemistry Program*
Dr. Richard P. Swenson

Hakan Kuh, Seoul, South Korea; B.A. (Hankuk University of Foreign Studies); M.A. (Oklahoma 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. Wigtíl

Aristides Lazo, La Trinidad, Nicaragua; D.V.M. (University of Cordoba, Spain); M.S.; *Microbiology*
Dr. James R. Blakeslee

Doobum Lee, South Korea; B.S. (Seoul National University); *Mathematics*
Dr. Dan Burgheloa

I-En Liao, Hsilo, 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 Malhotra, 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. Prabhat K. Gupta

Patricia Ann Merkle, Freeport, IL; 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. Staubus

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. Miljus

Joseph Patrick Noel, Pattor, PA; B.S. (University of Pittsburgh at Johnstown); *Chemistry*
Dr. Ming-Daw Tsai

Ojimadu Azubuike Ohajuruaka, Umuahia-Ibeku, 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 Sooryakumar

Hun-Joon Park, Seoul, South Korea; B.B.A., M.B.A. (Yonsei University); *Business Administration*
Dr. Robert W. Backoff

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. Mitsch

Harry Louis Rees, Barberton; B.A., M.A.; *History*
Dr. Carole R. Rogel

Louis Gerard Reifschneider, 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*
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Yu-Feng Shih, Tao, Yuan, Taiwan, R.O.C.;
B.S. (National Cheng Kung University);
Geodetic Science and Surveying

Jain 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. Tserepi, 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

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David Wayne Christopher, Galion
John Harold Holonitch, Upper Arlington
Jolene Jena Jackson, Perrysburg
Laura Anne Planitzer, Columbus
Scott Jay Schwartz, Toledo
Gregory Dwight Scott, Canal Winchester
Susan Carol Traylor, Circleville
Gail Louise Velzy, Columbus
Kelly Jeanne Douglas Warner, Columbus

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Raymond Judson Beach, Marietta
James Richard Cappelletti, Jr., Shaker Heights
Susan Louise Couden, Columbus
Beth Elaine Courtright, Stevens Point, WI
Suzanne Csejtek, Cuyahoga Falls
Marc William Daniels, Stony Brook, NY
Darryl Jerome Davis, Cincinnati
Melodie Ann Dombrowski, Tiffin
Elizabeth Ann Geyer, Columbus
Deborah Allison Griffing, Columbus
Timothy James Hower, Bath
Martin Charles Kehlmeier, Westerville
Gregory Scott Lewis, Gahanna
Bernard Leo Noga, Cleveland
Jeffrey Michael Opt, Dayton
Mary Margaret Panthana, Columbus
Philip Eugene Pease, Rothschild, WI
Adrian Leah Pomi, Pittsburgh, PA
Tracy Kay Reimold, Northfield
Karen Lynn Theis, Youngstown
Karen Donahue Thomas, Columbus
William Thomas Vargo, Columbus
Cathleen Marie Waliga, West Chester
Lorie Jan White, Reynoldsburg
Scot Charles Zellman, Marysville

Bachelor of Music

Jeffrey Scott Bonk, Buffalo, NY
Andrew T. Woodson, Columbus

Bachelor of Art Education¹

Karen M. Kreutzfeld, Port Clinton
Kimberly Ann Markusic, Dublin

Bachelor of Art Education²

Kim Chandra Covell-Sewell, Columbus
Mark Wilhelm Kaethow, Columbus
Barbara Ann Morrison, Columbus
Julie Ann Parsons, Granville
Kimberly Dawn Pyle, Cambridge
Lynne Swank, Mansfield

Bachelor of Music Education³

Jeffrey Alexander Freytag, Sidney
Matthew Shane Henry, Dayton
Melissa Jane Montgomery, Columbus
Caroline Sue Smart, Marion
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 Vyryan Romaine, Huntington, WV
David Lindell Zid, Columbus

Bachelor of Science

Paul Edward Bachmann, Akron
Shirly Talia Benatar, Columbus
Christopher Edward Bryniarski, Lansing
Denise Ellen Chase, Columbus
David Claude Clifford, Akron
Todd Neal Corbitt, Columbus
Wendy Sue Drake, Columbus
Nancy Lynn Elish, North Olmsted
Ronald Allen Fodo, Seven Hills
Monica Leah Litsky, Pickerington

¹Offered by the College of the Arts

²Offered jointly by the College of the Arts and the College of Education

Eduardo K. Quilanita Makapugay, Centerville

Jennifer Ann Marin, North Canton
Viksa Mendiratta, Beavercreek
Besem Nkechinyere Obenson, Cameroon, West Africa

William James Oda, Springboro
Gregory Thomas Parks, Columbus
Brian Thomas Piazza, Columbus
Deron Joseph Reisman, Warren
John Martin Strayer, Worthington
Darci Ann Uetrecht, Cincinnati
Christopher Michael Untch, Centerville
Michael Louis Wiggs, Wellington
James Wesley Williams, Jr., Kalida
Jennifer Ann Wojtowicz, Newbury

College of Humanities

Dean: G. Micheal Riley

Bachelor of Arts

Philip Turner Adornetto, Zanesville
Kathleen Barone, Westerville
Jeanne Marit Barry, Parkersburg, WV
Cheng-Chang Chou, Taipei, Taiwan, R.O.C.
Eric James Croston, Navarre
Leonard Allen Cuilli, Cleveland
Amy Lauren Cygnor, Toledo
Eric K. Danner, Wooster
Theresa Lynn Davis, Columbus
David Collett Devine, Cincinnati
Stacy Lynn Donaldson, Columbus
Michael Allen Fabyanic, Fairfax Station, VA
David Michael Fees, Painesville
Lisa Michelle Fletcher, Troy
Rene David Garcia, Xenia
Andrea Gattas, Columbus
Evangelos Ioannis Gegas, Columbus
Melissa Suzanne Goodrich, Columbus
Kathy Ann Hart, Marion
Ernie Lee Hay, Canal Winchester
Richard Harlowe Hermann, Lancaster
Craig Alan Hudson, Cincinnati
John Lawrence Carlton Jacobs, Columbus
Christopher Bowen Jeffery, Arlington
David D. Katzman, Newington, CT
David William Kolb, Columbus
Molly Anne Kozelek, Columbus
Leo Samuel Krawetz, Sylvania
Patricia Susan Kremer, Cincinnati
Todd Michael Lekan, Westlake
Brian Todd Makar, Rocky River
Christine Ann McConnell, Centerville
Justin Wade Mitchell, Columbus
Roberta Kaye Moseley, Greenville
Robert Bruce Murdoch, Akron
Janet Marie Murphy, Columbus
Jeffery Alan Murray, Lithopolis
Christine Marie Nardecchia, Canton
Carla M. Nazelli, Chagrin Falls
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William Charles Paris III,
Walnut Creek, CA
Kenneth Jerold Perelman,
Cleveland Heights
Beth Ellen Pollock, New Albany
Bobette Alene Ressa-Morit, Delaware
Constance Sue Richards, Columbus
Deborah Jean Rivera, North Ridgeville
Carrie Griswold Rudge, 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 Topper, Worthington
Randall James Trefethern, Poland
Cynthia G. Tsitroulis, Chillicothe
Adam D. Turkelson, Lebanon
Todd Albert Ulbrich, Jefferson
Maria A. Voulgaris, Columbus
Lanette Rochelle Wade, Columbus
Christopher Stephan Wathey, Cleveland
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 Arts

Carrie Lanne Frederick, Bexley
Julie Kay Hiner, Columbus
Joseph Patrick Kleinhenz, Centerville
Austen Pell, Atlanta, GA
Gregory Sherman Stephens, Columbus

Bachelor of Science

Pooya Alaedini, Columbus
Monica Lynn Bishop, Louisville
Velicia Maria-Lynn Brown,
Washington, DC
Amy Elizabeth Busick, Columbus
Rajshree Char, Columbus
Mario Cutillar Conol, Jr., Tiffin
Thomas Walberg Early, Bexley
Alan Scott Frishman, Portage
Seann Alexander Gibson, Columbus
Howard Michael Harris, Columbus
Shannon Leyann Harrison, New Carlisle
Ryan Thomas McMahon, Hudson
Susan Marie Mund, Fairlawn
Zuriel Ishac Nagar, Rosh-Haayin, Israel
Kectrin Cummons Radigan, Johnstown
Daniel Bernard Tavens, Lyndhurst
Richard F. Taylor, Sebring
Grace Ann Yap, Worthington

College of Social and Behavioral Sciences

Dean: Joan Huber

Bachelor of Arts

Randall Jay Edward Abrams, Cincinnati
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 Byers, Hilliard
Scott David Callahan, Concord Township
Theresa Ann Cardinal, Columbus
Carolyn Kathleen Caron, Canton
Holly Anne Coen, Wooster
Mona Lisa Cole, Newark
Edward James Cox III, Columbus
Theresa Lynn Davis, Columbus
Jana Marie Diederer, Granville
Beth Renee Dornbusch, Columbus
Daniel Sean Dugan, Cincinnati
Jenny Lynn Dunham, Mansfield
Laura Elizabeth Dunipace, Perrysburg
Jeffrey Michael Dunn, Hubbard
LaVonne Renee Dye, Moreland Hills
Scott Taylor Eliot, Lakeville
Janet Letow Epstein, Columbus
Marisa Facchini, Girard
James Edward Farrell III, Bristolville
Tara Vidette Fazzari, Toledo
Rachel Ann Feole, Galena
Stephen Earl Findley, Cincinnati
Gary Alan Fleshman, Columbus
Ronald Keith Florjancic, 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 Elisabeth Hambrick, Worthington
Christopher Willard Heiberger, Columbus
Jennifer Lynn Heider, Columbus
Ivy Patricia Hempy, Columbus
Mark Albert Herder, Upper Arlington
Heather Lyn Hewitt, Toledo
W. David Hill, Dublin
Robert Harold Hogsette, Jr., Dayton
Lisa Irene Holonitch, Columbus
Amy Reiling Homan, Kettering
Christopher Robert Houska, Solon
Dedrick W. Howard, Middletown
Wendy Kathleen Hrach, Sagamore Hills

Joseph Todd Hylton, Columbus
Arthur Jay Iarussi, 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 Kollias, Lorain
Michael Edward Krawiec, Darien, CT
Alfred Joseph Lane, Jr.,
Shawnee Mission, KS
Thomas James Leonard, Jr., Gahanna
Michael Gerard Liedtke, Marysville
Mary Beth Litteral, Worthington
Orlando Ricardo Lopez, Miami, FL
James Nicholas Lotton, North Hampton
Julie Anne Luckenbach, Columbus
Michael George Lukus, Doylestown
Lorraine Marchiano, Medina
Jeffrey Allen Mathes, Columbus
William Eugene Matlock, Columbus
Kimberly Sue McConnell, Caldwell
Randall L. McGee, Columbus
Shannon Ann McKinley, Toledo
Katherine Jill McLane, Columbus
Dina Kristine Mehta, Columbus
Mark Alan Michael, Upper Arlington
Linda Kay Mizer, Columbus
Sabrina Mondy, Dayton
John Scott Mullins, Mendon
Tamara Lynne Nichols, Akron
Åsa Johanna Nilsson, Carmel, NY
Lea Marie Nolan, Lakewood
Dale Richard Nordhausen, Cincinnati
Jessica North Oakes, Upper Arlington
Kathleen Anne O'Brien, Euclid
Erin Elizabeth O'Connell, Canton
Colleen Michelle O'Hara, Mentor
Mary Elizabeth Orin, Massillon
Barry T. Owens, Jr., Bethel Park, PA
Michele Maxine Palte, Miller City
William B. Parker, Jr., Lodi
Laura Jean Pasqualone, Geneva
Kathy Jean Perigois, Bellaire
James Michael Pier, Akron
Ann Marie Pishner, Zanesville
Valerie Lou Plante, Massillon
Thomas Edward Pohl, Versailles
Frank Powers, Jr., Youngstown
David Scott Preston, Powell
Rebecca Lynn Raitz, Maumee
Roseann 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, Canfield
 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, Columbus
 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 Barnett, Columbus
 Barbara Bartok, Columbus
 Dayne Elleman Collins, Columbus
 Harold Todd Cummings, Hillsboro
 Robert Christopher Fladung,
 North Canton
 Kevin Craig Gibson, Youngstown
 Michele Ann Hengle, Fairlawn
 Jeffrey Alden Jacot, North Canton
 Tracy Lee Love, Hamilton
 Karin Liese Manecke, Indiana, PA
 Curt David Metzger, Columbus
 Roberta Kaye Moseley, Greenville
 David Alan Nuccio, Mayfield
 Perry Ray Parsons, Richwood
 Christopher John Patrino, Akron
 Roy Harold Pierson, Columbus
 Cordell James Pride, Dayton
 Christis 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 Averion, Pomeroy

April Lynn Belt, Marietta, GA
 Lisa Antoniette Bencic, Westlake
 Stephanie Ann Blajczak, Columbus
 Diane Marie Blateri, Columbus
 Karen Lynn Brown, Worthington
 Katherine Kihm 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 Dierling, Cincinnati
 Diane Renee Dovjak, Newark
 Lila Lee Eidi, Toledo
 David John Friel, Cincinnati
 Molly Elizabeth Greenzalis, Columbus
 Carleen Rae Hill, Pickerington
 Darlene Marcia Hill, Toledo
 Heather Ann Iversen, Huron
 Jennifer M. Jenkins, Westerville
 Lynnette Renee Klessig, Pepper Pike
 Lily Christine Leist, Circleville
 Lisa Fay Lombard, Columbus
 Andrew Guy Marcelain, Newark
 Charles Ellis Matasich, Proctorville
 Meredith Joan McCaughy, Columbus
 Vincent Edward McGrail, Zanesville
 Cynthia Marquerite Moore, Columbus
 Rebecca Lynn Mugler, Toledo
 Steven John Myers, Huron
 Ronald Edward Newman, Jr., Canton
 William James Nieberding, Versailles
 Kyra Elisabeth Nolan, Shaker Heights
 Anissa Marianne Pollina, Worthington
 Jeannemarie Rich, Youngstown
 Anne Elizabeth Rodgers,
 Cleveland Heights
 Eve Irene Rosen, Columbus
 Jacqueline Diane Ruff, Lancaster
 Scott Gerard Saddleire, Cincinnati
 Gerald Wayne Salters, Hilliard
 Laura Alice Schlund, Solon
 Todd Richard Sharrock, Galion
 Dennis Alan Shaw, Columbus
 Robert Ryan Shiels, Cincinnati
 Sandra Lynne Smith, Dayton
 Wendy Ann Somerson, Columbus
 Susan Joanne 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,
 Pacific Palisades, CA
 Nancy Willis, Dayton
 Jenifer Anne Wilson, Worthington
 Elizabeth Anne Woods, Huron
 Susan Mary Yonchak, Chesterland
 Michael Elliott Zweig, Cleveland

College of Agriculture

Acting Dean: J. Robert Warmbrod

Bachelor of Science in Agriculture

David Alan Abernathy, Columbus
 Cynthia Ann Aichholz, Attica
 Neil Paul Badenhop, Wauseon
 Melissa Lynn Beaver, Piqua
 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 Cullman, Marysville
 August Anthony Dattilo, Strongsville
 Steven Scott Deam, Springfield
 Amy Lynn Drott, Bethel
 Brooks Edward Duffie, Camden
 Jodie Yarhouse Duffy, Harrod
 Valerie Frey, Willshire
 Jeffrey Dennis Hay, Bellevue
 David Christopher Henkle, South Vienna
 Laura Sue Higgins, Hillsboro
 Kerry C. Hughes, Kenton
 Barton Douglas Kayser, Greensburg, PA
 Michael Alan Kirsch, Bellevue
 Lori Ann Klies, Canal Winchester
 Steven Clark Knebel, Cincinnati
 David M. Koch, Westerville
 Harto Kolopaking, Lawang-Jatim,
 Indonesia
 Shu Ming Lim, Tawau, Sabah, Malaysia
 Heidi Lynn Long, Galion
 Michael Thomas Maxwell, Granville
 Gregory Allen Meyer, Fremont
 Michael Allen Molnar, Lichfield
 David Glen Myerholtz, Gibsonburg
 Mark Andrew Novotny, Youngstown
 James David Pettis, 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 Soehnlens, Canton
 Duane LeRoy Stotz, Milan
 Jeffrey Ward Stoutenburg, Westerville
 Colleen Anne Sundholm, Eldred, NY
 Arthur Edwin Taylor, New Holland
 Michael Anthony Thiel, Upper Sandusky
 Jeffrey Allen Tomlin, Hamersville
 Thomas J. Wagner, Bloomdale
 Jeffery Frank Wall, New Riegel
 David Michael Weibel, Ashville
 James E. 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 Billcheck, Findlay
David Peter Chrisman, Granville
Bradley Steele Couch, Vandalia
Jill Rochelle Drabick, Richmond
Ann Michele Gingrich, Beavercreek
Debra Louise McKinley, Reynoldsburg
Melissa Lynn Mickel, Toledo
Jeffrey Neil Pearcy, Colebank, WV
Wendy Lynne Pingel, Columbus
Drew Meacham Pomfrey, Painesville
Leslie Anne Rawlings, Pickerington

Agricultural Technical Institute – Wooster

Associate in Applied Science

Lewis E. Ballard, Marysville
David Joseph Blaha, Seven Hills
Michael Dean Bowman, Creston
John Floyd Brutchey II, Lexington
Dana Rex Casey, Millersburg
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 Housel, New Philadelphia
Matthew Monroe Lantz, Fremont
Thomas D. McCord, Wooster
Paul Fredric 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

Daniel Edward Stirling, Warren
Todd A. Wearsch, Avon

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
Geraldo Amante Almazan, Mansfield
Stephen Eugene Angus, Circleville
Michael Thomas Arena, Brecksville
Floyd Douglas Armfelt, London
Matthew James Arnold, Sunbury
Robert Edward Askew, Marion
Thomas W. Atchison, 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 Basista, Niles
Steven L. Beck, Columbus
Hatem B. Benjamin, Columbus
James Robert Benson, Bucyrus
Scott William Berry, Norwalk
Todd Matthew Berry, Columbus
Michael Louis Bilotta, Fairfield
Ronald Edward Bleiweiss, Bexley
Peter Alexander Boriin, Hamilton
Mark Paul Borling, Brunswick
Melanie Ann Bowes, Boardman
Lynn Ann Bowman, Newark
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William Edwin Buehner, Mayfield Heights
Randall Scott Buffenbarger, Lima
Charles Alan Burley, New Albany
Brian David Burstein, Cincinnati
Brian Joseph Caiazza, Canton
Beth Anne Campbell, Heath
Christie A. Campbell, Columbus
Nancy L. Campbell, Winchester
Kimberly Anne Castrodale, Columbus
Michael David Chambers, Columbus
Thean Hoi Chan, Singapore, Singapore
Jacquelyn Nannette Chevrier, Mansfield
Jeffrey Allen Christy, Columbus
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Christopher Scott Cooper, Wheelersburg
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Larry Dabbs, Jr., Westerville
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John Anthony Dragos, Troy
Leslie Joan Drayer, Hilliard
Scott Alan Drumm, Westlake
Diana Lynn Dunham, Dayton
Joel Edward Edgeman, Anderson, IN
James Morgan Elliott, Beverly
Susan Elizabeth Enneking, Dublin
Darryl William Everett, North Olmsted
Joseph Anthony Farinacci, Hudson
Sabrina Katherine Farnsworth, Elyria
Fayez Ramzy Fayez, Manama, Bahrain
Arlene Carol Feddersen, Columbus
Mark Steven Flickinger, Gahanna
Sara L. Fouke, Hillsborough, NJ
Duane Scott Frank, Coshocton
Reed A. Frankel, Novelty
Thamie J.H. Freeze, Canton
Renée Anne Friebel, Shelby
David B. Fryman, Upper Arlington
David Allen Fusek, Barnesville
Sherri Ann Gaston, Upper Arlington
Melanie Ann Gengler, Delphos
Khushwant S. Gill, Mentor
Stephen Jay Gitson, Youngstown
Patrick Joseph Gluntz, Brecksville
Joyce Elizabeth Goodwin, Brunswick
John Joseph Graham, Columbus
Margaret Mary Grannan, Cincinnati
Jeffrey Steven Grieser, Springfield
Kristine Hall, Powell
Robin Renée Hance, Archbold
Jeffrey Lane Harkleroad, St. Mary's
Todd Christopher Hartline, West Carrollton
Rasheeda Diana Hassanal-McCorkle, San Fernando, Trinidad
Matthew Joseph Hecmanczuk, Akron
Robert James Heid, Columbus
Linda F. Hill, Columbus
Patrick David Hodous, South Euclid
William Eugene Holtz, Ironton
Kendra Ann Hoot, Bloomdale
Jay Christopher Hucek, Columbus
David William Hughey, Galesburg, IL
Luis Louise Humbert, Columbus
Caroline J. Jack, Buffalo, NY
Larry 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 Kearns, Columbus
Bradley S. Kern, Columbus
David Kern, Akron
Thomas Charles Kipfer, Kingston, NY
Oliver Jeffrey Klar, Cleveland
John Richard Klima, Spencerville
Indiyati Kolopaking, Lawang, Indonesia
Barbara Caroline Koman, Stratham, NH
Thomas Gerald Kraft, Gahanna
Sandra Michelle Kreske, Lyndhurst
Joseph Kuemin, Columbus

Vandana R. Kundur, Hyderabad, Andhra Pradesh, India

Catherine Pallay Lamb, Columbus
Alysia Lavdas, Strongsville
Lysa Reed Lawing, Columbus
Karen Mae Lee, Cincinnati
Deborah Renee Lieb, Sandusky
Craig Steven Lofland, Columbus
Tammy Lynn Loss, Bay Village
Jo-Lynne Lower, Delaware
Ronald Aaron Lucki, Bridgeport
Paula R. Luna, Huron
Edward Joseph Macklin, Upper Arlington
Suresh R. Maniam, Fairfield
Barbara Jean May, Galloway
Deborah Louise Mayes, Cleveland
Robert Evans McCarter, Bryn Mawr, PA
Joanna Kay McClellan, Maple Heights
Theodore Henry McCord, Beaver Creek
David Stewart McCormick, East Palestine
Jill Ellen McEnery, Columbus
Linda Jane McGuire, Coshocton
Janice Marie McIlyar, Newark
Paul Norman McKissick, Columbus
Sandra Marie Melnick, Columbus
David Andrew Metcalf, Richfield
Karl Joseph Miller, Columbus
Nancy Jo Mitchell, Ashland
Douglas M. Mittlesteadt, Columbus
Zarazila Mohd Ripin, Kuala Lumpur, Malaysia
Christine Wade Moon, Newark
Arlene Morabito, Painesville
Donald William Moreland, Gahanna
Dennis Patrick Moriarty, Bexley
John David Morris, Newton Falls
Lori Dreher Moxley, Columbus
James George Nahay, Hilliard
Jennifer Lynn Negutt, Columbus
Rebecca Lee Nothstine, Meadow Bridge, WV
Gerard Adolph Opava, North Ridgeville
Prima Patel, Cuyahoga
Marcia Ann Perry, Waverly
Robert G. William Peterson, Mt. Vernon
Thuy Pham, Kettering
Denean Renee Platzke, Monclova
Sim Por Poh, Singapore
Susan Elizabeth Pomeroy, 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 Reinbolt, Akron
Steven Todd Rice, Worthington
Stacy Ann Rich, Granville
Michael David Richard, Columbus
Christopher Keith Riedel, Chippewa Lake
Benjamin W. Ring, Trinway
Marianne Patricia Ring, Massapequa 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. Scicolone, Mentor
John Adam Scior, Columbus
Richard Chester Seaman, West Union
David Milton Sebenoler, Columbus
Scott Lawrence Shafer, Brunswick
James William Sherry, Walkkill, NY
Kevin Alan Shoultz, Chillicothe
Deborah Kaye Sigworth, Ijamsville, MD
Thomas Valerio Sinacola, Columbus
Julie Ann Sivil, Orient
John Charles Sommer, Pittsburgh, PA
Troy Edward Spees, 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 Stooft, Marietta
Michele Hawkins Stroup, Dublin
Robert Alan Sweeney, Columbus
Robert J. Sweeny, Toledo
Richard William Tarantelli, Worthington
Timothy D. Taylor, Westerville
Brian Thomas Teets, Urbana
Janet I. Tobin, Sparta
Kevin Leigh Tom, Columbus
Annette Marie Tomei, Buffalo, NY
John David Tomlinson, Columbus
Michael L. Toth, Parma Heights
Christopher Randolph Townsend, Wilmington
Linh Khanh Tran, Oxford
John Thomas Trott, Zanesville
Theodore John Turner III, Worthington
Michael Lee Vagnier, Powell
Saeid Vahabzadeh, Columbus
Mark Alan Van Buren, Kirkersville
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 Whitaker III, Willoughby
Anthony Christopher White, Pataskala
Elizabeth V. Wicks, Hilliard
Timothy G. Wildman, Springfield
Lisa Renee Wilson, Hopewell
Edgar Dallas Wolfram, Columbus
Robert John Woodruff, Berkeley Heights, NJ
Yong Sok 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
Jacquie Renee Blake, Elida
Sheryl Ann Bordas, Greenwich
Barbara Jo Bowers, Lancaster
Elizabeth Anne Bowling, Canton
Loren Michelle Boyer, Lyndhurst
Gloria Jean Bratton, Ottawa
Steven David Braun, Hamilton
Sean Eric Briner, Montpelier
Frances Anne Brooks, Columbus
Kevin Brubeck, Columbus
Roberta Brunner, Columbus
Christine Louise Burden, Harrod
Matthew Lyle Burggraf, Galion
Karen Burke, Beachwood
Charles Francis Burkhardt, Lancaster
Ronald William Burns, Cincinnati
Beth Ann Butcher, Columbus
William J. Carr, Dublin
Susan Marie Carter, Columbus
Kimberly Kay Clark, Galion
Rena Cathleen Clausen, 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
Dubravka Eler, Mentor
John Paul Fantin III, Hilliard
Kathleen Jean Farmer, Salem
Lisa Michelle Friedman, Mayfield Heights
Mark Allan Furda, Wintersville
Charlotte Janine Gay, Lima
Sue Jeanette Gebhardt, 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
Fonda Jean Hinds, Massillon
Stacy Ann Horschler, North Lewisburg
Brian John Hunt, Lima
Jeffrey Brian Hurst, Sandpoint, ID
Tammy Rene Jackson, Quincy
Caroline S. Johnson, Lexington
Jane Alene Ruley Jones, Columbus
Michelle Lynn Juchem, Westlake
Timothy Patrick Kannally, Delaware

Sally Forker Keller, Canton
 V. Colleen Kellermeyer, Spencerville
 Beth Ann Kidwell, Sandusky
 Toni Lynn King, Findlay
 Kimberly C. Kiraly, North Ridgeville
 Irene Debbie Kondoleon, Warren
 Cynthia Joann Kubinski, Columbus
 Walter John Kurapkat, Westerville
 Thea Marie Lash, Canton
 Christin Marcelain LeMaster, Columbus
 Julie Evelyn Longacre, Columbus
 Tammy Ann Male, Columbus
 Jodie May Marmon, Galloway
 Angela Annette Marshall, Ada
 Lynn McNabb Martin, Worthington
 Peter Paul Matus, Wakeman
 James Bradley McCoy, Worthington
 Patricia Lynne McPheter, Bay Village
 Melissa Lee Mealy, Cuyahoga Falls
 Christopher James Meier, Granger
 William Joseph Miller, Columbus
 Simon John Moore, Solon
 Lisa Lynn Mossa, Columbus
 Sharon Michele Motter, Columbus
 James Wolfe Neu, Columbus Grove
 Roberta Jean Niese, Ottawa
 Thomas Ore, Whitehall
 Anne Marie Parsons, Mansfield
 Connie L. Patchett, Heath
 Betty Lou Phillis, Columbus
 Beth Ann Polen, Chillicothe
 Kimberly Lynn Price, Findlay
 Penny Marie Priess, Mansfield
 Robert Lee Rea, Brunswick
 Sandra Stafford Reckseit, Worthington
 Edward Henry Rensi, Downers Grove, IL
 Stephanie Diane Richardson,
 Bellefontaine
 Margaret Melissa Rockhold, Lima
 Laura Ann Rodichok, Etna
 Polly Lea Ruedebusch, Wapakoneta
 Elizabeth Ann Ruppel, Columbus
 Philip J. Sanfilippo, Wapakoneta
 Johnathon Anthony Sauer, Dublin
 Kimberly Lynn Schimpf, Seattle, WA
 Carolyn Ferroni Schlabach, Delaware
 Elaine Kay Schneider, Wapakoneta
 Linda Sue Schwyn, Columbus
 Lisa Jo Scialabba, Columbus
 Judi Lynn Seidel, Greenwich
 Scott Lowell Smith, Mansfield
 Craig Matthew Sparks, Marysville
 Stephanie Lynn Spicer, Worthington
 Carla C.M. Stevenson, Dola
 Derek Edward Straiton, Wadsworth
 Sheila Smithers Taylor, Enon
 Kara Lynn Tedlie, Cambridge
 Matt Alan Thompson, Reynoldsburg
 Richard Scott Travis, Westerville
 Carol Sue Tuttle, Reynoldsburg
 Keith Allen Waddle, Orient
 Jill Ellen Wallace, Youngstown
 Mary Kathryn Wasson, Canton
 Waunita Stuart Wharton, Mansfield
 Stephen Max Whitt, Hilliard
 Aldeen B. Willford, Columbus
 Shannon Lee Wilson, Lynchburg
 Susan Kay Yarger, Mansfield
 Erik Gregory Zierden, Hamilton

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
 Dobrila Istocki, Columbus
 Thomas Nalani Jacob, Forest Park
 Robert Wayne Metz, Clarence, NY
 Tong John Oon, Malaysia
 Anthony Scheidt, Cincinnati
 Severin Douglas 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 Cockeram, New Carlisle
 Douglas Richard Dallmar, Cincinnati
 Luke Joseph Hannibal, Avon Lake
 Mark Edward Morelock, Sidney
 Daniel Eric Rafferty, Latrobe, PA
 David John Slagel, Ironton

Bachelor of Science in Chemical Engineering

Richard Duane Blasick, North Canton
 Thomas Anthony Rich, Cincinnati

Bachelor of Science in Civil Engineering

Elizabeth Ann Bailik, Cincinnati
 James Andrew Barna, Columbus
 Daniel Elam Beasley, Peebles
 David Jess Cliff, Akron
 Amy Louise Driscoll, Louisville, KY
 Aiman S. El-Tohamy, Keansburg, NJ
 Steven Lawrence Guyer, Fremont
 Robert Owen Hahn, Perry
 Mark Alan Hoar, Tiffin
 Gregory Paul Huffman, Marietta

Tracy Lynn Johnson, Harrod
 Kenneth Lee Koppes, Medina
 Matthew Brian McGaughy, Dallas, TX
 Christopher Matthew Merklin, Gahanna
 Muhammad Rosman Omar, Kota Bharu
 Kelantan, Malaysia
 David Michael O'Toole, Jr., Lancaster
 Todd Duane Schafer, Kettering
 Douglas Lee Shevelov, Toronto
 Steven Andrew Simmons, Columbus
 Stefan Colby Spinosa, Columbus
 Antal Victor Szabo, Columbus
 Richard Nicholas Verst, Cincinnati
 David Raymond Wade, Newark
 John Douglas Weber, Bellefontaine
 James Norbert Welter, Westerville

Bachelor of Science in Computer and Information Science

Hilmi Nizar Al-Kamhawi, Columbus
 Paul Francis Brant, Jr., Macedonia
 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 Mentor
 Jack A. Kerstetter, Lattasburg
 David Andrew Kieffer, Columbus
 Young-Jun Kim, Seoul, South Korea
 Ronald D. Lee, Chesterland
 Deepak Mal, 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 Yearly, 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 Luu, Columbus
 Dean Alan Miller, St. Henry
 David Scott Mitchell, Columbus

Kok Pheng Ng, Penang, Malaysia
Bijit Thakorhai Patel, Columbus
Tazneen Anjum Rahman, Dhaka,
Bangladesh

Stephen Richard Reuning, Columbus
James Patrick Ryan, Hubbard
Robert Joseph Schultz, Cleveland
Mayank Vipin Shah, Lancaster
Brian James Walker, Columbus
Samuel James Wang, Akron
Michael Allen White, Marengo

Bachelor of Science in Engineering Physics

Douglas Richard Dodd, Columbus
John William Lindsey, 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 Farber, Upper Arlington
Steven Kent Hanson, Huntsville, AL
James Ronald Harenberg, Mansfield
Robertus Harseno, Purwokerto, Indonesia
Todd Morris Hofer, Wickliffe
Tony Yuk 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 Piascik, Hudson
Mark Alan Pischulla, Seven Hills
Harold Edward Pruett, Columbus
Troy David Richard, 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 Tidswell, Findlay
David William Walters, Columbus
Joseph William Worthington,
Worthington

Bachelor of Science in Mechanical Engineering

William Douglas Baker, Jr., Mentor
Markus Max Birnbrich, Galloway
Pamela Gravenkemper Brown, Dayton
David Lloyd Cuthbert, Columbus
Michael John Evans, Plain City
Michael Peter Gibson, North Olmsted
Ronald Patrick Griffith, Columbus

William Morgan Halli, Leechburg, PA
Michael John Huston, Delaware
Christopher John King, New Lexington
Rajiv Paul Madan, Upper Arlington
Kevin Richard McGeahey, Lima
Francis Joseph Murphy, Middletown
R. Jeffrey Ortman, Columbus
Lawrence J. Pigza, Solon
Timothy Michael Schock, Kettering
Anthony Wilbur Seipel, Gahanna
Patrick Edward Smithberger, Pickerington
Steven Michael Turner, Columbus
Kam Ming Yu, 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

Bachelor of Science in Architecture

Charles Michael Busch, Findlay
Steven Marshall Dungan, 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
Lisbeth Anne Breymaier, Bay Village
Gretchen Marie Denk, Mentor
Jina Adene Ethridge, Columbus

Donna Marie Gibson, Enon
Tomasean Marilyn Gloriosa, Mansfield
Karen Jean Goforth, Westerville
Michelle Renee Guard, Reynoldsburg
Trudi Ann Hebert, Gahanna
Elizabeth Marie Kacher, Lorain
Pui Ling Leung, Whitehall
Karen Lynn Marquardt, Toledo
Megan Lee Mars, Lakewood
Rebecca Elaine Martin, Columbus
Julie Ann Natalizio, Shreve
Susan Elizabeth Palur, Columbus
Leslie Ann Pearlman, Highland Heights
Elizabeth Ann Pendleton, Waverly
Kristin Sue Potocsnak, Canton
Wendy Lee Pratt, Loudonville
Jill Kristie Robinson, Cincinnati
Lisa Ann Schimmoeller, Ottawa
Christine Marie Shindler, Sylvania
Melanie Beth Shine, Beachwood
Amy Bell Spain, Marysville
Tracy Lee Stambaugh, Groveport
Rebecca Ann Stewart, Mt. Vernon
Donna Josephine Vertone, Watchung, NJ
Shelbie Myra Wasserman, Columbus
Marie Renee Yoho, Worthington
Rosemarie Elaine Zimmer, Mansfield

Bachelor of Science in Hospitality Management

Kelly 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, Euclid
Kathryn Alice Browne, Ashville
Anson Basa Casile, Lima

Loraine Ann Davis, Westerville
 Vanessa Lynn Diaz, Sabina
 Cynthia Marie Dippolito, Warren
 Marsha Jo Dresbach, Leipsic
 Michael Wayne Edgecombe, Columbus
 Christi Lynn Edmonds, Columbus
 Brenda Ruth Ann Fett, Lima
 Jane Erika Fletcher, Cleveland
 Cynthia Gail Fulkerson, Troy
 Valerie Jean Gadberry, Bellevue
 Cynthia Lane Gripp, Chesterland
 Patricia Louise Groom, Columbus
 Dawn Christine Gueli, Columbus
 Cynthia Lynn Hackworth, Granville
 Melinda Jane Hostetler, Marion
 Karen Anne Johnson, Coraopolis, PA
 Louann Gulick Jones, Portsmouth
 Donald Gene Kennett, Arcadia, IN
 Andrea Krzyscin, Harrod
 Nicol Stacy Kwait, Toledo
 Cindy Ann Lamb, Lancaster
 Donna Michelle Leo, Cincinnati
 Ellen Sander Longjohn, Pittsburgh, PA
 Sandhya Mal, Columbus
 Carolyn Jean Malito, Warren
 Brenda 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, Beaver creek
 Holly 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 Vorisek, Gahanna
 Cheryl Lynn Wondrak, Solon
 Susan Lynn Yaist, 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 Sheahan, Columbus
 B.S., B.S.AL.Hth.Prof., M.S.

College of Nursing

Dean: Carole A. Anderson

Bachelor of Science in Nursing

Patricia Kay Correll, Flemington, NJ
 Kathryn Frances Diehl, Worthington
 Marilyn 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 Dobbins, Springfield
 Amy Jeannine Erdos, Cadiz
 Donald Michael Ferren, Canfield
 Douglas Burton Ferriman, Wellington
 Lori Lynne Fracker, New Concord
 Chris Albert Gasser, Rittman
 Brian John Goshe, Tiffin
 Cynthia Marie Goulish, Youngstown
 Thomas W. James, St. Clairsville
 Cheryl Ann Micak, Columbus
 Freddie Vernell Moyer, Jr., Columbus
 Janet Margaret Nagy, Richmond Heights
 Janet Dahman Roadcap, Jacksonville, 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 Wallick, 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 Renéé Dye
 David Scott Preston
 Jacqueline Diane Ruff
 Todd Albert Ulbrich

Summa Cum Laude

David Alan Abernathy
 Melanie Ann Bowes
 Pamela Gravenkemper Brown
 Karen Burke
 Christie A. Campbell
 Douglas L. Cole
 David Lloyd Cuthbert
 Cynthia Beth Diaz
 Jodie Yarhouse Duffy
 James Edwin Fowler, Jr.
 Thámie J. H. Freeze
 James Matthew Gassman
 Matthew Hayden Harper
 Inge Margaret Hescher
 Edward Joseph Horvath
 David D. Katzman
 Thea Marie Lash
 Barbara Jean May
 Lisa Lynn Mossa
 Sim Por Poh
 Michael David Richard
 Brenda Sue Schroeder
 Robert Alan Sweeney
 Christis George Tombazos
 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

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 Csejtey
Marsha Jo Dresbach
Jenny Lynn Dunham
Gary Alan Flesham
Charlotte Janine Gay
Marilyn Jean Glenn
Cynthia Lane Gripp
Kathleen Ann Haines
Michele Ann Hengle
Sherri Lynn Higgins
Lisa Irene Holonitch
V. Colleen Kellermeier
Vandana R. Kundur
Catherine Pallay Lamb
Monica Leah Litsky
Julie Evelyn Longacre
Kevin Luu
Debra Louise McKinley
Viksa Mendiratta
Christine Wade Moon
Robert Bruce Murdoch
Jeffery Alan Murray
Steven John Myers
Thomas Ore
Kenneth Jerold Perelman
Penny Marie Priess
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
MaryAnn Webber
Paul Gregory Werring, Jr.
Michael Allen 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.

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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.

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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.

March 2, 1990 meeting, 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

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.

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.

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 that 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.)

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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.

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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.)

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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.

March 2, 1990 meeting, Board of Trustees

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.

March 2, 1990 meeting, Board of Trustees

Distinguished Service Awards (contd)

Background (contd)

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.

March 2, 1990 meeting, Board of Trustees

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.

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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.

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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.

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March 2, 1990 meeting, Board of Trustees

Honorary Degrees

Background

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.

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PERSONNEL ACTIONS

Resolution No. 90-88

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 Honory 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.

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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.

March 2, 1990 meeting, Board of Trustees

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 sucrose. 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.

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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

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.

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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. Warmbrod:

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.)

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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.

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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.

March 2, 1990 meeting, Board of Trustees

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

SUMMARY FOR JANUARY 1990

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	104	\$9,994,769.62
Engineering Experiment Station	87	\$1,071,327.00
Total	191	\$11,066,096.62
The Ohio State University Development Fund		
Establishment of Designated Chair		
The Edward Orton, Jr., Chair in Ceramic Engineering (Establish a designated chair)		
Establishment of Named Funds		
The Richard Lambert Harris Flute Scholarship Fund (Scholarships for outstanding flutists)		\$23,861.55
The Norwood H. and Helen M. Meyer Scholarship Fund in Pharmacy (Scholarships)		\$18,000.00
The Orton Hall Fund (Used by the Department of Geology and Mineralogy to provide support for the facilities and activities of Orton Hall)		\$17,920.00
Clinical Research Facility Endowment Fund (Support planning, design, construction and/ or operation)		\$15,000.00
The Robert L. Folk Academic Excellence Scholarship Fund (Scholarships to medical students)		\$15,000.00
The Geography Faculty and Alumni Fund (Scholarships, prizes, and other expenditures)		\$15,000.00
The Donald E. and Joan E. Herr 4-H International Programs Fund (Support Ohio delegates)		\$15,000.00

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

\$1,825,000.00 - Department of Energy, Argonne, Illinois, High Energy Physics, Department of Physics (High Energy Physics Group: S. Durkin, H. P. Kagan, R. D. Kass, T. Y. Ling, W. F. Palmer, S. S. Pinsky, N. W. Reay, K. Reibel, T. A. Romanowski, J. Shigemitsu, R. A. Sidwell, N. R. Stanton, G. Steigman, K. Tanaka, and W. W. Wada), 1 January 1990 through 31 December 1990. (Project 762116 - Continuation)

\$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)

\$330,314.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Operation of an Educational Resources Information Center (ERIC) Clearinghouse on Science, Mathematics, and Education, Department of Educational Studies: Humanities, Science, Technological, and Vocational (R. W. Howe), 1 January 1990 through 31 December 1990. (Project 766518 - 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 760578 - 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)

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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 Sciences, 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)

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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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$83,109.00 - 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 1990. (Project 767692 - Continuation)

\$75,000.00 - 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)

\$72,814.00 - 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)

\$71,079.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Laser Diagnostics of RF Hydrogen PLASMA Reactors: Application to the Processing of III-V Materials, Department of Chemistry (T. A. Miller), 1 July 1989 through 30 June 1992. (Project 767838 - Continuation)

\$70,000.00 - 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), 30 October 1989 through 1 July 1990. (Project 767656 - Continuation)

\$63,000.00 - 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. McClenahan), 1 January 1990 through 31 March 1991. (Project 767211 - Continuation)

\$61,497.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Marginal Copper Intake Effects: Superoxide Dismutase and Lipid Peroxidation, Department of Human Nutrition and Food Management (R. A. DiSilvestro), 1 December 1989 through 30 April 1990. (Project 768077 - New)

\$61,370.00 - 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)

\$54,880.00 - 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 766494 - Continuation)

\$51,786.00 - Department of Health and Human Services, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina, 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$50,000.00 - National Foundation on the Arts and Humanities, National Endowment for the Humanities, Washington, D.C., Quincentenary Fellowship Program in Advanced Colonial Latin American Studies, Humanities Administration (S. J. Summerhill), 1 October 1989 through 30 September 1991. (Project 767974 - New)

\$49,640.00 - National Science Foundation, Washington, D.C., Molecular Biology of the Hyperthermophile, Methanogen AV19, Department of Microbiology (J. N. Reeve and C. J. Daniels), 15 January 1990 through 31 December 1990. (Project 768073 - New)

\$47,408.00 - National Science Foundation, Washington, D.C., Mapping of Ice Stream B Using SPOT Satellite Data, Byrd Polar Research Center and Department of Civil Engineering (C. J. Merry) and Department of Geology and Mineralogy (I. M. Whillans), 15 January 1990 through 31 December 1990. (Project 768083 - New)

\$45,200.00 - 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), 1 September 1990 through 31 August 1992. (Project 767825 - Continuation)

\$40,000.00 - 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 1989 through 15 March 1990. (Project 766464 - Continuation)

\$40,000.00 - Department of the Army, Army Materiel Command, Dover, New Jersey, Synthesis of Polynitro Cage Molecules, Department of Chemistry (L. A. Paquette), 1 May 1989 through 29 April 1990. (Project 765379 - Continuation)

\$33,416.00 - 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 1 February 1990. (Project 767996 - New)

\$32,192.00 - National Occupational Information Coordinating Committee, Washington, D.C., State-National Staffing Pattern Project, Academic Faculty of Management Sciences (P. Ward), 30 January 1990 through 31 October 1990. (Project 768078 - New)

\$31,750.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Campylobacter pylori in the Gnotobiotic Piglet, Department of Veterinary Pathobiology (G. S. Krakowka and K. A. Eaton), 1 January 1990 through 31 December 1990. (Project 767150 - Continuation)

\$30,700.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Civil Engineering (M. R. McCord), 1 January 1990 through 31 December 1990. (Project 766242 - Continuation)

\$27,816.00 - Department of the Army, Army Materiel Command, Fort Belvoir, Virginia, Borehole Geophysical Techniques for Tunnel Detection, Department of Geology and Mineralogy (J. J. Daniels), 1 October 1989 through 30 September 1990. (Project 768081 - New)

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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

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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)

\$1,603.00 - State of Ohio, Department of Education, Columbus, Ohio, Entrepreneurship Education in the Modernization of Vocational Education in Ohio, Center on Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767713 - 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)

\$21,778.00 - Westinghouse Electric Corporation, Pittsburgh, Pennsylvania, Modeling Cognitive Behavior of Nuclear Power Plant Personnel, Department of Industrial and Systems Engineering (D. D. Woods), 1 October 1989 through 31 July 1990. (Project 767992 - New)

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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. Valco), 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)

\$68,450.00 - 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 31 January 1990. (Project 767715 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$62,562.00 - Council on International Educational Exchange, New York, New York, Ministry of Education Intensive English in the U.S.A. for Japanese Teachers of English, English as a Second Language Programs (R. N. Kantor), 1 February 1990 through 31 December 1990. (Project 767405 - Continuation)

\$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 767376 - 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 764147 - 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, Calcium²⁺, 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)

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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. Rokhlin), 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)

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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 Geociever 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)

\$2,550.00 - The Petroleum Research Fund, Washington, D.C., The 23rd Reaction Mechanisms Conference, Boulder, Colorado, June 10-14, 1990, Department of Chemistry (M. S. Platz), 1 June 1990 through 31 August 1990. (Project 767986 - 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 of 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.

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

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.

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 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.

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**Employment of Architects/Engineers and
Request for Construction Bids**

Background

University Airport Renovation - 1990

This project will construct a snow removal equipment and maintenance building, a taxiway "G" extension to runway 96 with hold apron, and a hold apron for taxiway "C" at runway 23.

Funds for this project are available from a Federal Aviation Administration grant and University funds. Construction costs for the project are estimated at \$1,000,000, and the total estimated project cost is \$1,200,000.

(See Appendix LVII for map, 867.)

**EMPLOYMENT OF ARCHITECT/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 96 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.

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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.

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**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

March 2, 1990 meeting, Board of Trustees

**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.

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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

March 2, 1990 meeting, Board of Trustees

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.

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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.

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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
Secretary

John W. Berry
Chairman

APPENDIX LIII

MINORITY STUDENT UNDERGRADUATE ENROLLMENT

Presented to the Board of Trustees March 2, 1990
(See page 797)

TABLE 1
 THE OHIO STATE UNIVERSITY
 MINORITY STUDENT UNDERGRADUATE ENROLLMENT
 COLUMBUS CAMPUS
 AUTUMN QUARTERS 1976 - 1989

<u>YEAR:</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
<u>ETHNICITY:</u>														
BLACK %	n/a	n/a	2,226 (5.69)	2,246 (5.51)	2,142 (5.13)	1,895 (4.70)	1,888 (4.59)	1,952 (4.73)	1,899 (4.73)	1,939 (4.74)	1,870 (4.57)	1,838 (4.54)	1,837 (4.53)	1,935 (4.82)
ASIAN %	n/a	n/a	225 (0.65)	353 (0.86)	381 (0.91)	439 (1.08)	538 (1.30)	597 (1.44)	659 (1.64)	755 (1.84)	839 (2.05)	917 (2.26)	967 (2.38)	1,060 (2.64)
HISPANIC %	n/a	n/a	157 (0.40)	195 (0.47)	227 (0.54)	267 (0.66)	286 (0.69)	290 (0.70)	313 (0.77)	334 (0.87)	356 (0.87)	368 (0.90)	436 (1.07)	464 (1.15)
AMERICAN NATIVE %	n/a	n/a	43 (0.10)	42 (0.10)	51 (0.12)	46 (0.11)	54 (0.13)	59 (0.14)	46 (0.11)	42 (0.002)	60 (0.14)	54 (0.13)	59 (0.14)	51 (0.127)
TOTALS %	n/a	n/a	2,681 (6.85)	2,836 (6.96)	2,801 (6.70)	2,647 (6.56)	2,766 (6.72)	2,898 (7.02)	2,917 (7.26)	3,070 (7.26)	3,125 (7.64)	3,177 (7.84)	3,299 (8.13)	3,510 (8.74)

SOURCE: Office of Student Registrar
 Student Enrollment Reporting

MINORITY STUDENT ENROLLMENT

TOTAL UNIVERSITY
Autumn Quarters
1972-1989

	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
Black Students	2098	2269	2627	2799	3039	2936	2836	2902	2864	2533	2478	2566	2468	2528	2458	2430	2569	2729
Asian or Pacific Islander	182	198	264	270	275	305	342	422	513	607	717	818	879	986	1113	1232	1322	1417
Hispanic Students	121	99	123	146	181	224	237	293	343	375	404	418	451	472	536	546	627	636
American Indian or Alaskan Native	<u>49</u>	<u>72</u>	<u>67</u>	<u>69</u>	<u>75</u>	<u>76</u>	<u>62</u>	<u>57</u>	<u>73</u>	<u>73</u>	<u>87</u>	<u>93</u>	<u>83</u>	<u>75</u>	<u>92</u>	<u>82</u>	<u>101</u>	<u>99</u>
	2450	2638	3081	3284	3568	3541	3477	3674	3793	3588	3686	3895	3881	4061	4199	4290	4619	4881

Source: Annual Statistical Summary
Office of Registration Services

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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)



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261

THE OHIO STATE UNIVERSITY
ENDOWMENT SUMMARY
February 16, 1990

Endowment Composition

	06-30-89	Percent of Equity and Fixed Income Portfolio	02-16-90	Percent of Equity and Fixed Income Portfolio
Equities:				
Chicago Corp.	\$ 34,629,320	13.98%	\$ 35,064,050	13.44%
R. Meeder	-0-	-0-	12,497,807 (1)	4.79
Neuberger & Berman	13,552,018	5.47	13,471,274	5.17
Nicholas-Applegate	11,475,663	4.63	13,081,642	5.02
Siebel	32,173,227	12.98	33,537,131	12.86
University Managed	80,168,113	32.35	36,737,815	14.08
Wells Fargo EAFE	-0-	-0-	10,050,445 (2)	3.85
Wells Fargo S&P 500	-0-	-0-	28,883,528 (3)	11.07
Total Equities	\$171,998,341	69.41%	\$183,323,692	70.28%
Fixed Income:				
Boatmen's Trust	\$ 23,841,580	9.62%	\$ 22,887,028	8.78%
Cambridge	951,048	0.38	939,859	0.36
Duff & Phelps	10,243,208	4.13	10,122,877	3.88
WR Lazard	-0-	-0-	9,870,751 (4)	3.79
STW Fixed Income	24,150,270	9.75	23,354,544	8.95
University - GNVA	10,144,887	4.10	10,042,907	3.85
University Managed	6,465,211	2.61	292,910	0.11
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.

<u>Estimated Weighted Average Yield of Endowment Fund</u>		<u>% Change in Market Value February '89 to February '90</u>	<u>Total Estimated Return</u>
Equity:	<u>% Yield</u>		
Chicago Corp.	2.83% (1)	9.68%	12.51%
R. Meeder	1.15 (2)	(16.68)	(15.53) (13)
Neuberger & Berman	2.77	8.19	10.96
Nicholas-Applegate	1.33 (3)	19.94	21.27
Siebel	5.00 (4)	13.78	18.78
University Managed	2.23 (5)	10.29	12.52
Wells Fargo EAFE	0.64	0.50	1.14 (14)
Wells Fargo S&P 500	1.29	(3.72)	(2.43) (15)
Standard & Poor's Index	3.75	12.12	15.87
Real Estate:	3.85%	8.42%	12.27%
Fixed Income:			
Boatmen's Trust	7.78% (6)	6.12%	13.90%
Cambridge	8.21 (7)	1.48	9.69
Duff & Phelps	8.14 (8)	3.86	12.00
WR Lazard	4.51 (9)	(1.29)	3.22 (13)
STW Fixed Income	8.74 (10)	5.00	13.74
University - GNMA	9.69 (11)	3.24	12.93
University Managed	13.05 (12)	(11.11)	1.94
Merrill Lynch Corporate/ Government Master	9.18	2.84	12.02
Shearson Lehman Hutton Government/ Corporate Index	9.14	2.98	12.12

- (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.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>02-16-90</u>	<u>Percent of Portfolio</u>
Market Value (06-30-89)	\$287,298,389	Equities	\$162,692,819	54.13%
Principal Additions	15,822,398	Fixed Income	76,422,448	25.43
Principal Withdrawals	(280,000)	Real Estate	39,600,000	13.18
Change in Market Value	<u>(2,309,402)</u>	Cash	<u>21,816,118</u>	<u>7.26</u>
Current Market Value	<u>\$300,531,385</u>	Total Portfolio	<u>\$300,531,385</u>	<u>100.00%</u>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
No Activity			

Real Estate

<u>Sale</u>	<u>Total Investment</u>
No Activity	

**The Ohio State University
Common & Preferred Stock**

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
4,100	Circus Circus Enterprises, Inc.	Chicago	48.0000	\$ 197,066.50	\$ 0.00
5,600	Cooper Tire & Rubber Co.	"	33.8579	189,968.30	2,016.00
600	Kelly Services, Inc.	"	33.2500	19,950.00	360.00
1,400	Kemper Corp.	"	37.0000	51,891.00	1,176.00
2,000	Lance, Inc.	"	23.3420	46,684.00	1,520.00
6,000	Lotus Development Corp.	"	28.6250	171,750.00	0.00
5,100	MARCO, Inc.	"	38.3750	196,044.00	5,100.00
6,300	Safety Kleen Corp.	"	28.0000	176,809.50	2,268.00
11,100	Standard Register Co.	"	15.5000	172,050.00	5,772.00
1,300	Wetterau, Inc.	"	25.5625	33,312.50	780.00
2,000	Chemical Waste Management, Inc.	Nicholas- Applegate	19.8360	39,792.00	240.00
7,500	Halliburton Co.	"	44.0338	330,703.50	7,500.00
8,000	Helmerich & Payne, Inc.	"	32.6029	261,302.88	3,520.00
7,100	Hilhaven Corp.	"	1.7188	12,203.49	0.00
2,000	Intel Corp.	"	39.4375	78,875.00	0.00
25,000	Maxus Energy Corp.	"	10.7480	270,200.00	0.00
15,000	Medco Containment Services, Inc.	"	17.1250	256,875.00	600.00
13,000	Mylan Labs, Inc.	"	21.5081	280,385.10	1,300.00
6,000	Newmont Mining Corp.	"	53.5854	321,872.40	3,600.00
12,900	Sun Microsystems, Inc.	"	19.6676	253,712.20	0.00
4,400	Tambrands, Inc.	"	71.3243	314,091.00	9,504.00
3,200	Disney (Walt) Co.	Siebel	104.7972	35,575.20	1,536.00
4,500	Federal National Mortgage Association	"	33.4309	150,754.00	2,520.00
5,000	Hilton Hotels Corp.	"	57.7700	289,200.00	5,000.00
5,000	Holiday Corp.	"	57.2170	286,435.00	0.00
15,000	Novell, Inc.	"	31.7920	476,880.00	0.00
7,300	Primerica Corp.	"	26.8250	196,333.50	2,336.00
190	Banc One Corp.*	University Managed	30.8125	5,854.38	197.60
17	Mobil Corp.*	"	57.8124	982.81	44.20
68	Southwest Bell Corp.*	"	54.0625	3,676.25	176.80
23	Worthington Industries, Inc.*	"	24.5626	564.94	12.88
				<u>\$5,421,794.45</u>	<u>\$57,079.48</u>

* Gift

The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
4,000	Apple Computer, Inc.	Chicago	34.0000	\$ 136,000.00	\$(18,000.00)
12,400	Computer Associates International, Inc.	"	11.2530	138,726.54	(18,226.46)
7,000	Olsten Corp.	"	13.8754	96,669.76	(45,462.44)
3,600	PPG Industries, Inc.	"	40.0000	143,761.20	(12,622.80)
2,700	Quaker Oats Co.	"	48.5000	130,770.13	(18,242.87)
5,400	Rite Aid Corp.	"	31.2500	168,393.37	(11,072.63)
11,000	Skyline Corp.	"	13.6250	149,155.00	(5,560.00)
5,000	Snap-On Tools Corp.	"	32.5000	162,169.58	3,268.58
4,000	Vulcan Materials Co.	"	41.7500	166,734.43	14,669.43
6,200	Watkins Johnson Co.	"	16.5010	101,899.78	(54,991.22)
6,200	Albertson's, Inc.	Nicholas- Applegate	50.5289	312,897.03	135,305.44
4,300	Bausch & Lomb, Inc.	"	57.3312	246,258.06	20,369.76
9,900	Comcast Corp.	"	13.7863	136,483.90	(9,741.10)
3,500	Community Psychiatric Centers	"	26.1490	91,308.44	7,107.11
2,100	Disney (Walt) Co.	"	102.7581	215,658.80	78,711.12
2,600	Federal Home Loan Mortgage Preferred	"	60.3477	156,742.81	20,006.21
7,100	Hilhaven Corp.	"	1.3750	9,478.17	(2,725.32)
6,800	Kemper Corp.	"	34.5223	234,335.85	(33,346.15)
7,300	MCI Communications Corp.	"	35.2837	257,571.01	149,118.52
6,800	Oracle Systems Corp.	"	19.5132	132,689.54	35,909.83
500	General Motors Corp.*	University Managed	41.3750	20,654.81	(501.44)
1	NICOR, Inc.*	"	43.3764	<u>43.01</u>	<u>1.01</u>
				<u>\$3,208,401.22</u>	<u>\$233,974.58</u>

* Gift

The Ohio State University

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
1,000,000	Federal National Mortgage Assoc. 8.950% 02-12-18	Boatmen's	8.9360	8.9347	100.1562	\$1,001,562.50
1,000,000	U.S. Treasury Bond 8.500% 02-15-20	"	8.4496	8.4444	100.5970	1,005,970.00
4,380,000	U.S. Treasury Bond (Stripped) 0.000% 11-15-16	"	0.0000	8.2454	11.4980	503,612.40
3,600,000	U.S. Treasury Bond (Stripped) 0.000% 11-15-18	"	0.0000	8.1360	10.0820	362,952.00
4,200,000	U.S. Treasury Bond (Stripped) 0.000% 05-15-17	"	0.0000	8.2356	11.0710	464,982.00
930,000	U.S. Treasury Bond 8.125% 08-15-19	Cambridge	8.4898	8.5251	95.7031	890,039.06
1,000,000	First Union Bank Corp. 9.450% 06-15-99	STW	9.5684	9.6502	98.7630	987,630.00
1,000,000	Resolution Funding Corp. 8.125% 10-15-19	"	8.6724	8.7207	93.6875	936,875.00
1,300,000	U.S. Treasury Bond 10.750% 08-15-05	"	9.1974	8.7423	116.8810	1,519,453.13
2,000,000	U.S. Treasury Bond 9.250% 02-15-16	"	8.6247	8.5504	107.2500	<u>2,145,000.00</u>
						<u>\$9,818,076.09</u>

The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
2,650,000	U.S. Treasury Bond 7.250% 05-15-16	Boatmen's	86.6262	\$ 2,295,593.75	\$ (62,244.12)
1,000,000	U.S. Treasury Bond 8.500% 02-15-20	"	101.5937	1,015,937.50	9,967.50
3,550,000	U.S. Treasury Bond 7.250% 05-15-16	STW	87.0412	3,089,960.94	(174,827.02)
1,365,000	U.S. Treasury Note 8.875% 11-15-98	"	102.9364	1,405,082.81	78,192.24
1,000,000	California State G.O. 6.750% 10-01-04	"	99.0000	<u>990,000.00</u>	<u>(7,590.00)</u>
				<u>\$ 8,796,575.00</u>	<u>\$(156,501.40)</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
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
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
46.984 acres of land in Delaware County	.55	1971	100,793	641,000	06/89
Hangar at Don Scott Field (Loan)	.00	1973	26,667 (1)	26,667	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	70,150 (1)	70,150	N/A
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	283,000	06/89
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,896,000	06/89
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,367,000	06/89
76.143 acres of land, 3253 West Granville Road	.03	1968	310,538	6,853,000	06/89
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,749,000	06/89
32 acres of land, 3371 West Granville Road	.19	1986	2,078,666	2,880,000	06/89
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,080,000	06/89
8.557 acres of land, 3505 West Granville Road	.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
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	1,155,000	08/89
17.92 acres of land on Eiterman Road	.00	1978	25,152	725,000	05/88
Veterans Administration Clinic	8.08	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,327,758</u>	<u>\$39,696,817</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261

MEMORANDUM

Subject: Proxy Solicitations
Date: February 28, 1990
From: James L. Nichols, Treasurer *James L. Nichols*
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

	Donors			1988	Dollars		
	July 1988	through 1989	December % Change		July 1988	through 1989	December % Change
Alumni	28,333	23,220	(18)	\$9,027,638	\$5,746,901	(37)	
Non-Alumni	13,041	10,996	(16)	4,131,435	4,656,602	13	
Corporations	1,294	1,468	14	7,649,275	5,783,022	(25)	
Corporate Foundations	195	204	5	1,349,723	1,119,506	(17)	
Private Foundations	115	119	4	3,248,429	2,264,048	(31)	
Other	<u>801</u>	<u>538</u>	(33)	<u>1,586,216</u>	<u>2,008,175</u>	27	
TOTAL	43,779	36,545	(15)	\$26,992,716	\$21,578,254	(20)	

The Ohio State University Campaign
 Progress Report
 @ December 31, 1989

	<u>*Campaign Exectancies</u>	<u>Current Year Campaign Receipts (Jul 89-Dec 89)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1989</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$74,551,916	\$5,746,901	\$54,101,474	\$134,400,291	\$122,500,000	110
Friends	45,790,973	4,656,602	35,289,619	85,737,194	70,000,000	123
**Corporations	13,034,305	8,910,703	143,559,753	165,504,761	122,500,000	136
Foundations	<u>2,728,625</u>	<u>2,264,048</u>	<u>25,891,857</u>	<u>30,884,530</u>	<u>35,000,000</u>	89
Totals	\$136,105,819	\$21,578,254	\$258,842,703	\$416,526,776	\$350,000,000	119

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.

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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.

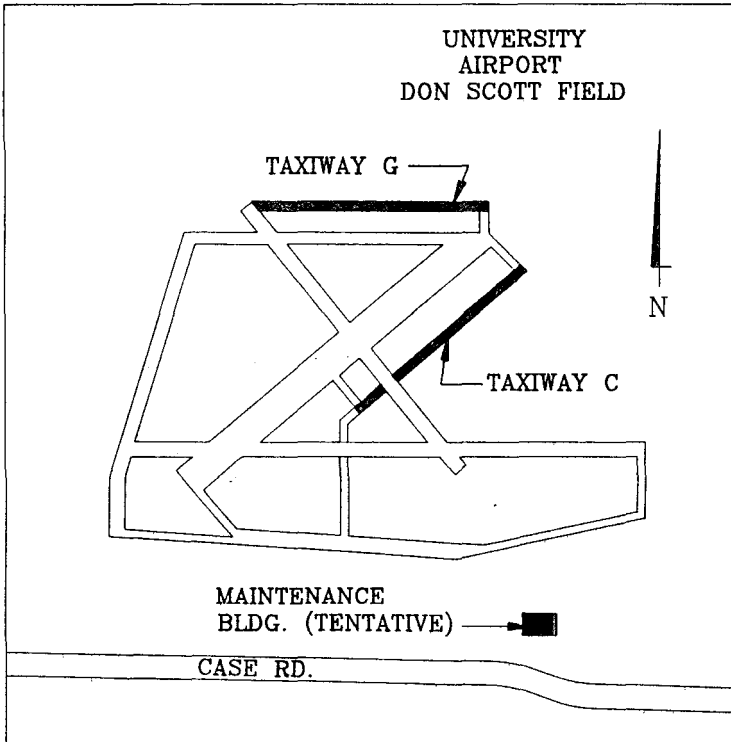
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APPENDIX LVII

UNIVERSITY AIRPORT RENOVATION - 1990

Adopted by the Board of Trustees March 2, 1990
(See page 839)

UNIVERSITY AIRPORT
RENOVATION - 1990



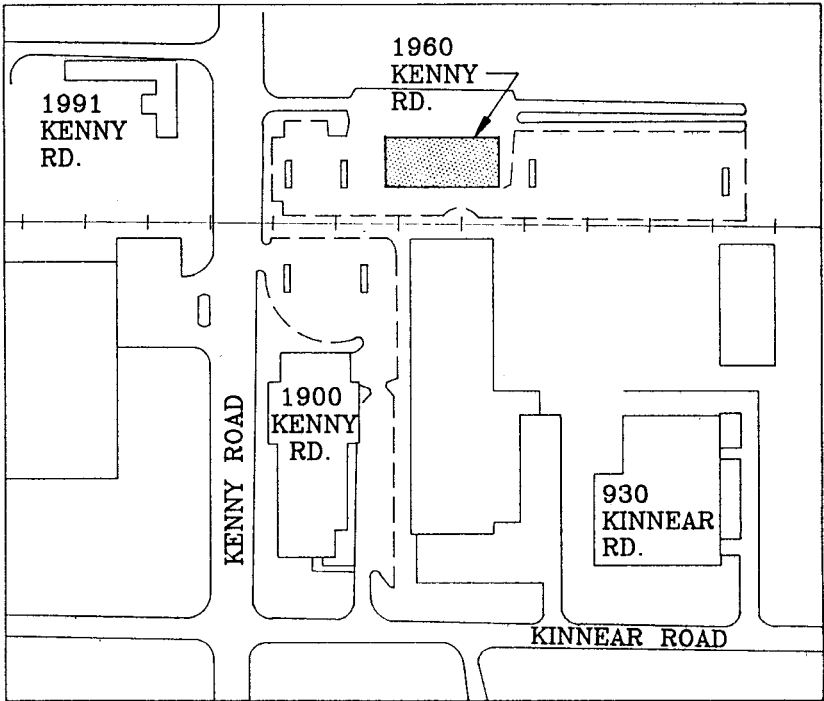
OFFICE OF BUSINESS AND ADMINISTRATION
MARCH 2, 1990

APPENDIX LVIII

1960 KENNY ROAD RENOVATION
OXLEY HALL REHABILITATION

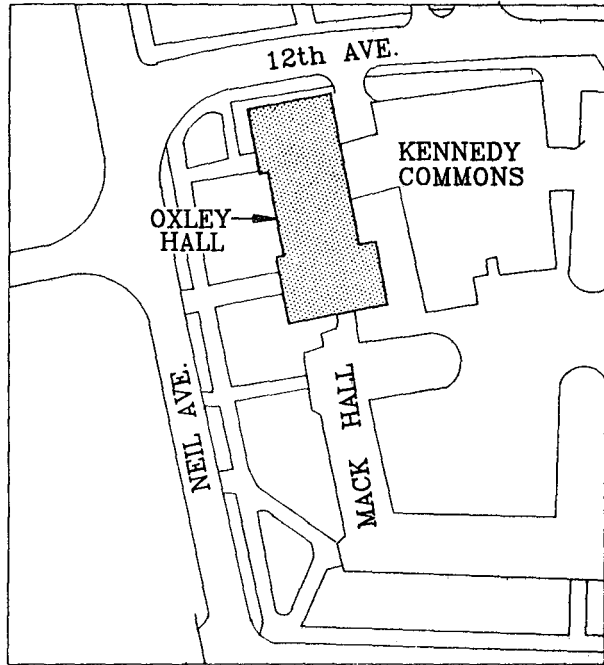
Adopted by the Board of Trustees March 2, 1990
(See page 840)

1960 KENNY ROAD RENOVATION



OFFICE OF BUSINESS AND ADMINISTRATION
MARCH 2, 1990

OXLEY HALL REHABILITATION



OFFICE OF BUSINESS AND ADMINISTRATION
MARCH 2, 1990

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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

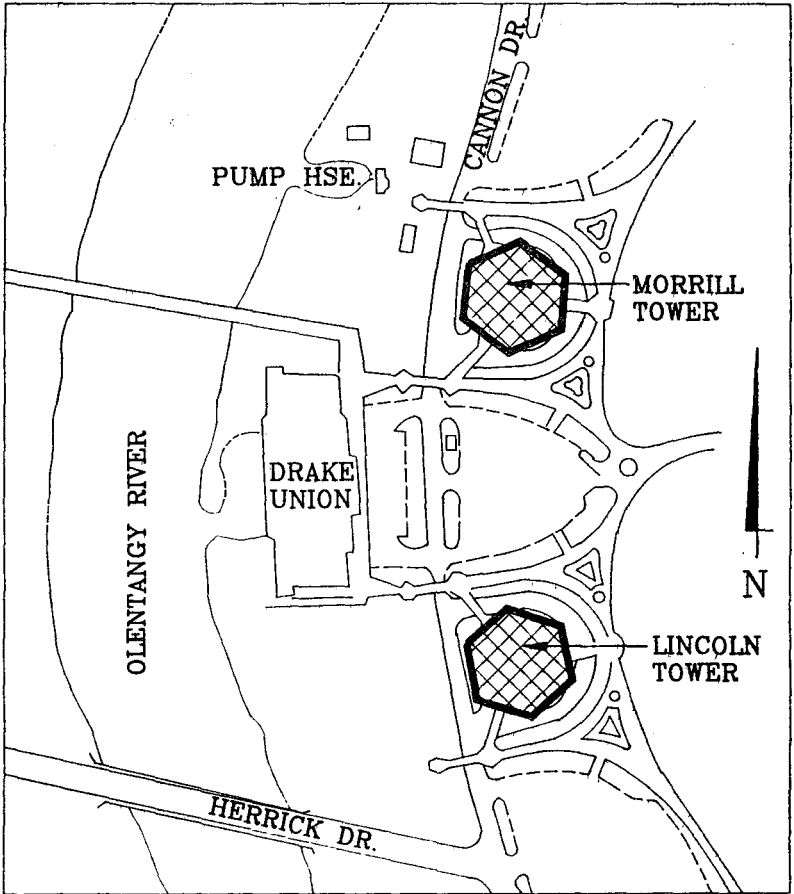
LINCOLN/HORRILL TOWER DORMITORIES UPGRADE

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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Martin Constr. *</u>	<u>Functional Dev.</u>	<u>M & P</u>
Base Bid	\$1,100,000.00	\$648,500.00	\$769,900.00	\$973,890.00
Total General Contract	\$1,100,000.00	\$648,500.00	\$769,900.00	\$973,890.00
<u>Plumbing Contract</u>	<u>Estimate</u>	<u>Progress Mech. *</u>	<u>Radico</u>	<u>J. A. Myers</u>
Base Bid	\$40,000.00	\$27,420.00	\$37,600.00	\$39,260.00
Total Plumbing Contract	\$40,000.00	\$27,420.00	\$37,600.00	\$39,260.00
<u>Plumbing Contract (Continued)</u>	<u>J. A. Croson</u>	<u>Farber</u>		
Base Bid	\$43,334.00	\$43,800.00		
Total Plumbing Contract	\$43,334.00	\$43,800.00		
<u>Electric Contract</u>	<u>Estimate</u>	<u>Eastmoor *</u>	<u>Ellico</u>	<u>Romanoff</u>
Base Bid	\$70,000.00	\$57,050.00	\$62,389.00	\$76,995.00
Total Electric Contract	\$70,000.00	\$57,050.00	\$62,389.00	\$76,995.00
<u>Electric Contract (Continued)</u>	<u>Jess Howard</u>			
Base Bid	\$78,400.00			
Total Electric Contract	\$78,400.00			

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

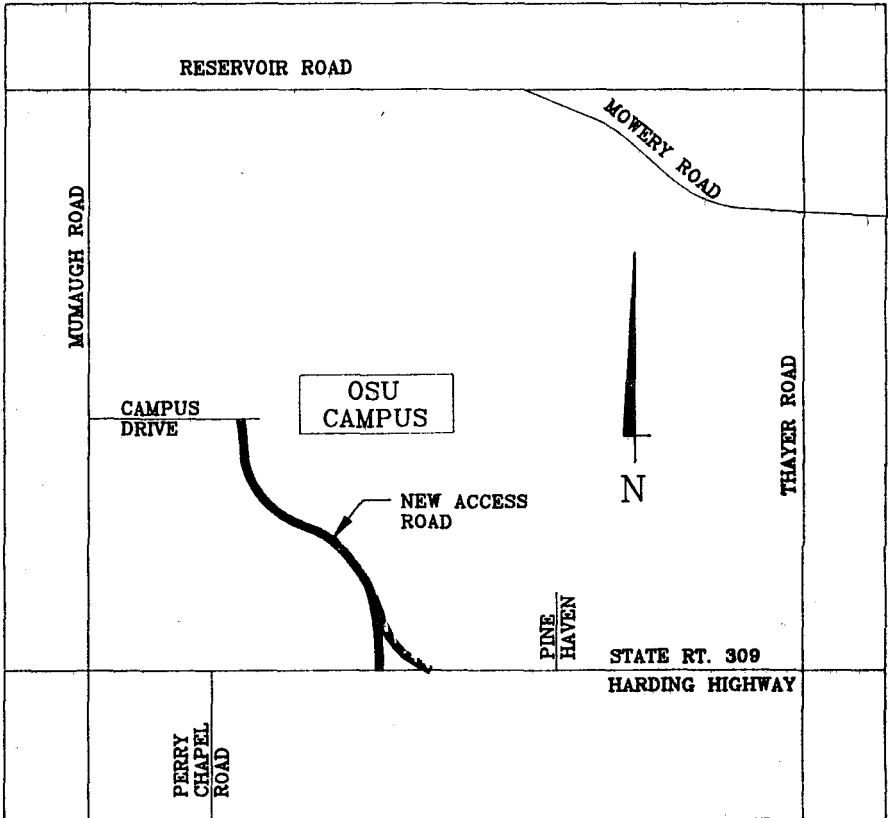
LIMA CAMPUS - ENTRANCE ROAD FROM STATE ROUTE 309

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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Fort Defiance *</u>	<u>E. J. Meyer</u>	<u>Williams</u>
Base Bid	\$627,352.00	\$441,431.25	\$457,426.40	\$500,631.85
Alt. G-1 (Additional Landscaping)	11,880.00	12,730.00	10,075.00	5,553.00
Total General Contract	\$639,232.00	\$454,161.25	\$467,501.40	\$506,184.85
Alternates not taken:				
Alt. G-2 (Entrance Signs)	\$29,270.00	\$10,000.00	\$27,500.00	\$25,000.00
General Contract (Cont.)	<u>Degen</u>			
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			
<u>Electric Contract</u>	<u>Estimate</u>	<u>Joy Electric</u>		
Base Bid	\$119,290.00	\$91,924.83		
Total Electric Contract	\$119,290.00	\$91,924.83		

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

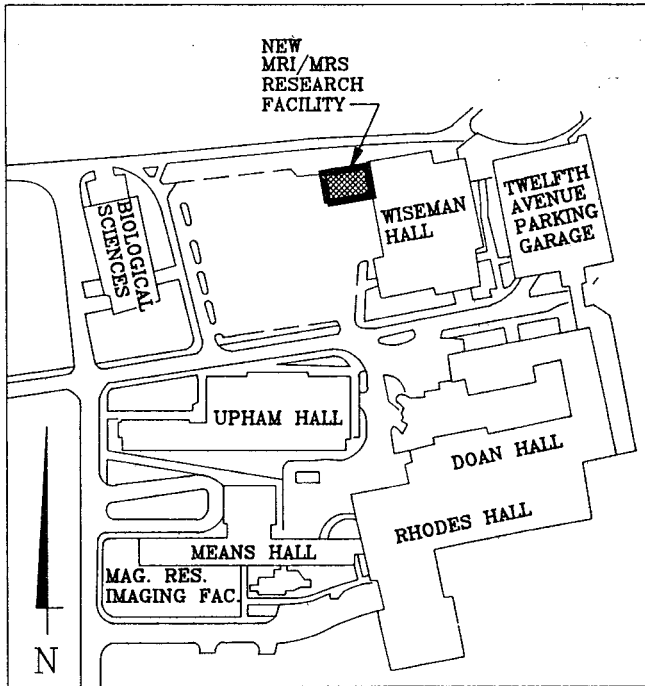
Tabulation of Bids

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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Williamson *</u>	<u>Charr</u>	<u>Functional Dev.</u>
Base Bid	\$101,250.00	\$109,500.00	\$109,950.00	\$118,995.00
Total General Contract	\$101,250.00	\$109,500.00	\$109,950.00	\$118,995.00
<u>General Contract (Cont.)</u>	<u>Allen Baliev</u>	<u>Ed Ross</u>	<u>Page</u>	<u>Dublin</u>
Base Bid	\$122,402.00	\$124,800.00	\$124,800.00	\$128,598.00
Total General Contract	\$122,402.00	\$124,800.00	\$124,800.00	\$128,598.00
<u>General Contract (Cont.)</u>	<u>M & P</u>	<u>Charter Hill</u>		
Base Bid	\$129,700.00	\$142,440.00		
Total General Contract	\$129,700.00	\$142,440.00		
<u>Plumbing Contract</u>	<u>Estimate</u>	<u>Farber *</u>	<u>J. A. Guy</u>	<u>J. A. Croson</u>
Base Bid	\$72,000.00	\$49,600.00	\$51,300.00	\$56,879.00
Total Plumbing Contract	\$72,000.00	\$49,600.00	\$51,300.00	\$56,879.00
<u>Plumbing Contract (Cont.)</u>	<u>Progress Mech.</u>	<u>Bruner</u>	<u>Holdridge</u>	<u>Radico</u>
Base Bid	\$58,700.00	\$58,800.00	\$62,808.00	\$69,300.00
Total Plumbing Contract	\$58,700.00	\$58,800.00	\$62,808.00	\$69,300.00
<u>HVAC Contract</u>	<u>Estimate</u>	<u>J. A. Guy *</u>	<u>J. A. Croson</u>	<u>Farber</u>
Base Bid	\$36,000.00	\$25,900.00	\$27,990.00	\$29,400.00
Total HVAC Contract	\$36,000.00	\$25,900.00	\$27,990.00	\$29,400.00
<u>HVAC Contract (Cont.)</u>	<u>Bruner</u>			
Base Bid	\$33,500.00			
Total HVAC Contract	\$33,500.00			

<u>Electric Contract</u>	<u>Estimate</u>	<u>Romanoff *</u>	<u>Jess Howard</u>	<u>Rece</u>
Base Bid	\$103,140.00	\$79,400.00	\$91,400.00	\$96,974.00
Total Electric Contract	\$103,140.00	\$79,400.00	\$91,400.00	\$96,974.00
<u>Electric Contract (Cont.)</u>	<u>Wals-Carroll</u>	<u>Claypool</u>	<u>Goodin</u>	<u>Eastroor</u>
Base Bid	\$101,680.00	\$102,000.00	\$103,500.00	\$103,654.00
Total Electric Contract	\$101,680.00	\$102,000.00	\$103,500.00	\$103,654.00
<u>Electric Contract (Cont.)</u>	<u>Petter</u>	<u>States</u>	<u>Claggett</u>	<u>Frush & Roman</u>
Base Bid	\$107,450.00	\$108,000.00	\$110,700.00	\$149,656.00
Total Electric Contract	\$107,450.00	\$108,000.00	\$110,700.00	\$149,656.00

MAGNETIC RESONANCE IMAGING/
MAGNETIC RESONANCE SPECTROSCOPY
(MRI/MRS) RESEARCH FACILITY
ADDITION TO WISEMAN HALL.



OFFICE OF BUSINESS AND ADMINISTRATION
MARCH 2, 1990

April 5 and 6, 1990 meeting, Board of Trustees

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.

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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.

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.

April 5 and 6, 1990 meeting, Board of Trustees

PRESIDENTIAL SEARCH COMMITTEE PROGRESS REPORT (contd)

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.

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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.

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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.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Leslie H. Wexner, Alex Shumate, Sophia L. Paige, and Laurel A. Davis.

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April 5 and 6, 1990 meeting, Board of Trustees

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

--0--

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.

CAPITAL PROJECTS (contd)

Mr. Ihrig: (contd)

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.

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.

CAPITAL PROJECTS (contd)

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.

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.

April 5 and 6, 1990 meeting, Board of Trustees

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.)

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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.

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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.

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.

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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.)

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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:

RENAMING 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.

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RENAMING 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

RENAMING 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.

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AMENDMENTS TO THE UNIVERSITY HOSPITALS BOARD BYLAWS

Resolution No. 90-98

Synopsis: The Academic Affairs Committee recommended the approval of 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.

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.
- (3) Evaluating safety/security and disaster planning performance.
- (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.
- (2) Monitoring quality assurance performance.
- (3) Monitoring medical and other educational activity and relationship to hospitals.
- (4) Monitoring research 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.

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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.

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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 LAMBROPOULOS, 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 VANDECREEK, 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.

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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 3345.16 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.

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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.

April 5 and 6, 1990 meeting, Board of Trustees

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

April 5 and 6, 1990 meeting, Board of Trustees

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.

April 5 and 6, 1990 meeting, Board of Trustees

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.

April 5 and 6, 1990 meeting, Board of Trustees

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.

April 5 and 6, 1990 meeting, Board of Trustees

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.

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.

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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.

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.

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.

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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

AGRICULTURAL AFFAIRS COMMITTEE REPORT (contd)

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.)

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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.

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

April 5 and 6, 1990 meeting, Board of Trustees

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

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	85	\$4,620,282.10
Engineering Experiment Station	60	\$ 103,146.00
Total	145	\$4,723,428.10

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
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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)

\$95,000.00 - 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 766592 - 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)

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)

\$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. Burghelaa), 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)

\$31,436.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Theory of System Reliability Demonstration, Burn-in Design, and Record Statistics, Department of Statistics (S. Blumenthal and H. N. Nagaraja), 1 July 1990 through 30 June 1991. (Project 767478 - Continuation)

\$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. Slemmons and C. R. Dorn), 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

\$181,489.00 - State of Ohio, Department of Development, Columbus, Ohio, Improved Clonal Propagation and Peeling Technology for Chestnuts, Department of Horticulture - OARDC and Department of Horticulture (D. D. Miller) and Department of Horticulture (S. Still), 29 March 1989 through 28 March 1992. (Project 768082 - New)

\$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, Competitive Bidding and Transmission Access and Pricing issues in the Context of Integrated Resource Planning, National Regulatory Research Institute (D. N. Jones), 1 February 1990 through 30 June 1990. (Project 768106 - 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)

April 5 and 6, 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)

\$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 \$ 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. Loeb), 1 February 1990 through 31 January 1992. (Project 768129 - New)

\$208,734.60 - Organon, Inc., West Orange, New Jersey, An Ultrasound Study of Ovarian Cyst Activity Comparing CTR-04 and CTR-05 Versus a Concurrent Untreated Control, Department of Pharmacology (N. Gerber and G. Apseloff), 22 May 1989 through 21 May 1990. (Project 767548 - Continuation)

\$25,781.00 - ASI Systems International, Orange, California, Compact Reflector Antenna System Study for Multi-Emitter Radio Frequency Simulation, ElectroScience Laboratory, Department of Electrical Engineering (I. J. Gupta and W. D. Burnside), 1 January 1990 through 30 June 1990. (Project 768085 - 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 Simplex 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)

\$20,000.00 - Universal Energy Systems, Inc., Dayton, Ohio, The Response of Nonlinear Systems to Random Excitation, Department of Engineering Mechanics (L. D. Zavodney), 1 January 1990 through 31 December 1990. (Project 768113 - 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)

April 5 and 6, 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)

\$10,314.00 - 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)

\$9,600.00 - Clinical Research International, Inc., Research Triangle Park, North Carolina, A Multicenter, Placebo-Controlled, Parallel-Design, Phase III Evaluation of the Safety of Lamotrigine as Add-On Therapy in Outpatients with Partial Seizures, Department of Neurology (M. E. Drake, Jr.), 1 July 1989 through 30 September 1991. (Project 767774 - 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 768123 - Continuation)

\$2,000.00 - Horticultural Research Institute, Inc., Washington, D.C., Nitrate Nitrogen Loss for Container Nurseries, Cooperative Extension Field Operations (R. H. Zondag), 1 March 1990 through 31 December 1990. (Project 768110 - New)

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)

April 5 and 6, 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)

\$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)

\$50,000.00 - Virginia Department of Education, Richmond, Virginia, A Status Study of Guidance and Counseling in Virginia, Center on Education and Training for Employment (R. D. Ryan), 1 February 1990 through 30 June 1990. (Project 768097 - New)

\$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)

\$24,010.00 - Japan-United States Friendship Commission, Washington, D.C., Acquisition and Cataloging of Japanese Language Works Dealing with Japanese Industry, Labor, Economics, Agriculture, Fisheries, Science, and Technology, University Libraries (M. Donovan), 26 January 1990 through 31 January 1991. (Project 768086 - 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)

Other Non-Federal Research Contracts/Grants (contd)

\$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)

April 5 and 6, 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)

\$2,000.00 - 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

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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.

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 Name of Fund

The Michael 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.

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.

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**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

**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
Amount:	\$73,500.00
Estimate:	\$75,000.00
Total All Contracts:	\$223,150.00
Contingency Allowance:	\$22,315.00 (10% of construction cost)
Total Project Cost:	\$326,889.70

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
Amount:	\$134,760.00
Estimate:	\$137,186.00
Total All Contracts:	\$134,760.00
Contingency Allowance:	\$6,740.00 (5% of construction cost)
Total Project Cost:	\$161,500.00

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 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.

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**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 2i 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

**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, and as further amended by the First Supplemental Trust Indenture Amendment Agreement, dated as of March 1, 1988, 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.

"Original Purchasers" means, as to the Series 1990 Bonds, Prudential-Bache Capital Funding, New York, New York, John Nuveen & Co. Incorporated, Chicago, Illinois, The Ohio Company, Columbus, Ohio, The Huntington Company, Columbus, Ohio and WR Lazard, Laidlaw & Mead Incorporated, New York, New York.

"Paying Agent" means the Trustee.

**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.

"Series 1990 Bonds" means The Ohio State University General Receipts Bonds, Series 1990.

"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.

**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

**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.

(h) 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

**AUTHORIZATION, ISSUANCE AND SALE OF GENERAL RECEIPTS BONDS,
SERIES 1990 OF THE OHIO STATE UNIVERSITY (contd)**

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)(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

**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.

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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

PROJECTS	OHIO STATE'S CAPITAL REQUEST	APPROPRIATIONS* (HB 808)
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REQUESTED PROJECTS:		
BASIC RENOVATIONS (COLUMBUS CAMPUS)	\$ 15,473,700	13,449,000
SUPPLEMENTAL RENOVATIONS (COLUMBUS CAMPUS)	8,985,000	0
REGIONAL CAMPUSES RENOVATIONS	1,200,000	1,382,000
ATI RENOVATIONS	399,900	341,000
OARDC RENOVATIONS	1,700,000	1,166,000
BROWN HALL ANNEX REPL - PHASE II	10,000,000	7,010,000
EQUINE CENTER	4,000,000	4,272,000
DREESE LAD ADDITION	18,900,000	20,449,000
MENDENHALL RENOVATION	13,000,000	10,244,000
SMITH LAB RENOVATION	1,500,000	0
B&Z BLDG ADDITION & RENOVATION	4,100,000	0
MCPHERSON LAB RENOVATION	1,000,000	0
LAW BUILDING ADDITION AND RENOVATION	6,960,000	7,000,000
RIGHTMIRE HALL REMODELING (BIOTECH)	10,000,000	0
SISSON HALL RENOVATION	2,500,000	0
CALDWELL LAB REMODELING	2,300,000	0
HEALTH SCIENCE LIBRARY RENOVATION	4,700,000	0
RESOURCE CONS & RECOV LAB (ENVR HLTH)	1,450,000	0
ASBESTOS REMOVAL (BEYOND FORMULA DISTRIBUTION)	2,000,000	0
HEALTH CTR ACCESS RD PHASE I, II & III	4,900,000	0
CAMBELL HALL ADDITION	1,500,000	0
LORD HALL REPLACEMENT (PHYSICS)	41,400,000	0
 TOTAL NEW REQUESTED APPROPRIATIONS	 \$ 157,968,600	 65,313,000
 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	 \$ 162,066,783	 92,711,183

* JUNE 1989 ESTIMATES

** ORIGINAL APPROPRIATION FOR HAGERTY HALL RENOVATION IN H.B. 798, 1985-86

BOARD OF REGENTS
STATE-WIDE CAPITAL APPROPRIATIONS
HOUSE BILL 808

	<u>AMOUNT</u>
EDUCATIONAL TV/RADIO EQUIPMENT	\$ 2,372,895
ASBESTOS ABATEMENT	7,000,000
INSTRUCTIONAL & DATA PROCESSING EQUIPMENT	43,200,000
OHIO LIBRARY INFORMATION SYSTEM - PHASE I	6,914,000
SUPERCOMPUTER MASS STORAGE SYSTEM	2,000,000
OHIO AEROSPACE INSTITUTE	10,475,000
RESEARCH FACILITY INVESTMENT LOANS & GRANTS	20,000,000
HIGHER EDUCATION CHILD CARE FACILITIES	<u>500,000</u>
	\$ 92,461,895

THE OHIO STATE UNIVERSITY
 1991-96 CAPITAL PLAN
 STATE FUNDING REQUEST
 JUNE 1989 ESTIMATES (\$000)

PROJECTS..	TOTAL PROJECT	1991-92 BIENNIIUM	1993-94 BIENNIIUM	1995-96 BIENNIIUM
BASIC RENOVATIONS (COLUMBUS CAMPUS)	\$ 46,421.1	15,473.7	15,473.7	15,473.7
SUPPLEMENTAL RENOVATIONS (COLUMBUS CAMPUS)	26,985.0	8,985.0	9,000.0	9,000.0
REGIONAL CAMPUSES RENOVATIONS	3,600.0	1,200.0	1,200.0	1,200.0
ATI RENOVATIONS	1,199.7	399.9	399.9	399.9
DARDC RENOVATIONS	4,620.0	1,700.0	1,525.0	1,395.0
BROWN HALL ANNEX REPL - PHASE II	10,000.0	10,000.0		
EQUINE CENTER	4,000.0	4,000.0		
DREESE LAB ADDITION	18,900.0	18,900.0		
MENDENHALL RENOVATION	13,000.0	13,000.0		
SMITH LAB RENOVATION	25,350.0	1,500.0	3,250.0	20,600.0
B&Z BLDG ADDITION & RENOVATION	25,600.0	4,100.0	6,500.0	15,000.0
MCPHERSON LAB RENOVATION	14,650.0	1,000.0	13,650.0	
LAW BUILDING ADDITION AND RENOVATION	6,960.0	6,960.0		
RIGHTMIRE HALL REMODELING (BIOTECH)	10,000.0	10,000.0		
SISSON HALL RENOVATION	4,500.0	2,500.0	2,000.0	
CALDWELL LAB REMODELING	6,300.0	2,300.0	4,000.0	
HEALTH SCIENCE LIBRARY RENOVATION	4,700.0	4,700.0		
RESOURCE CONS & RECOV LAB (ENVIR HLTH)	1,450.0	1,450.0		
ASBESTOS REMOVAL (BEYOND FORMULA DISTRIBUTION)	4,000.0	2,000.0	1,000.0	1,000.0
HEALTH CTR ACCESS RD PHASE I , II & III	14,875.0	4,900.0	5,850.0	4,125.0
CAMPBELL HALL ADDITION	1,500.0	1,500.0		
LORD HALL REPLACEMENT (PHYSICS)	41,400.0	41,400.0		
NEW LIBRARY (INCL THOMPSON REMODELING)	85,700.0		3,000.0	82,700.0
NEIL - 17th BLDG REPLACEMENT	14,550.0		14,550.0	
SCHOOL OF ARCHITECTURE BUILDING	26,675.0		26,675.0	
HUGHES HALL RENOVATION	5,550.0		5,550.0	
HAGERTY HALL RENOVATION	12,000.0		12,000.0	
FOOD SCIENCE FACILITY (AGRI)	5,250.0		5,250.0	
MARION MAINTENANCE BLDG	575.0		575.0	
ANIMAL FACILITY UPGRADE (DENTISTRY)	1,150.0		1,150.0	
FARM MANAGEMENT CENTER - ATI	640.0		640.0	
POULTRY RESEARCH FACILITY REPLACEMENT	1,850.0		1,850.0	
POULTRY RESEARCH FACILITY (DARDC)	435.0		435.0	
MARION CAMPUS LIBRARY EXPANSION	3,500.0		3,500.0	
ANIMAL FACILITIES REPLACEMENT (AGRI)	22,000.0		22,000.0	
NEWTON HALL ADDITION	4,350.0		4,350.0	
FINLEY FARM ADDITION/IMPROVEMENTS	2,175.0		2,175.0	
WASTE HANDLING/STORAGE FACILITIES (DARDC)	1,000.0		1,000.0	
BROMFIELD HALL ADDITION (MANSFIELD)	500.0		500.0	
HASKETT HALL RENOVATION	4,200.0		4,200.0	
RANSEYER HALL RENOVATION	7,500.0		7,500.0	
SISSON HALL ADDITION	7,100.0		7,100.0	
VIVIAN HALL RENOVATION	5,400.0			5,400.0
STILLMAN HALL ADDITION AND RENOVATION	7,210.0			7,210.0
SULLIVANT HALL RENOVATION	2,000.0			2,000.0
PAGE HALL RENOVATION	4,250.0			4,250.0
WESTERN BRANCH IMPROVEMENTS (DARDC)	850.0			850.0
COCKINS/MATH BLDG IMPROVEMENTS	6,000.0			6,000.0
POMERENE HALL RENOVATIONS	5,000.0			5,000.0
LIMA ACADEMIC BUILDING	4,500.0			4,500.0
ANIMAL SCIENCES FACILITY	16,000.0			16,000.0
SUPPORT SERVICES BUILDING	26,900.0			26,900.0
TOTAL STATE FUNDED PROJECTS	\$ 574,820.8	157,968.6	187,848.6	229,003.6

CPSTLIST

JULY 21, 1989

THE OHIO STATE UNIVERSITY
 1991-96 CAPITAL PLAN
 NON-STATE FUNDED PROJECTS
 JUNE 1989 ESTIMATES (\$000)

PROJECTS	TOTAL PROJECT	1991-92 BIENNIIUM	1993-94 BIENNIIUM	1995-96 BIENNIIUM
BASIC/SUPPLEMENTAL RENOVATIONS (COLUMBUS CAMPUS) * \$	33,000.0	11,000.0	11,000.0	11,000.0
HOSPITALS RENOVATIONS	27,000.0	9,000.0	9,000.0	9,000.0
ATHLETIC DEPT RENOVATIONS	6,108.0	5,608.0	250.0	250.0
RESIDENCE & DINING HALLS RENOVATIONS	3,000.0	1,000.0	1,000.0	1,000.0
UNION BLDGS RENOVATIONS	1,500.0	500.0	500.0	500.0
EQUINE CENTER *	1,500.0	1,500.0		
LAW BUILDING ADDITION AND REMOVATION *	7,700.0	7,700.0		
NEW BUSINESS BUILDING	33,700.0	33,700.0		
ASBESTOS REMOVAL *	2,000.0	1,000.0	500.0	500.0
CAMPBELL HALL ADDITION *	1,500.0	1,500.0		
FOOD SERVICE RENOVATIONS (RESID & DINING)	6,500.0	3,500.0	3,000.0	
LINCOLN/MORRILL TOWERS UPGRADE (RESID & DINING)	7,500.0	7,500.0		
COLUMBUS PROJECT	15,000.0	15,000.0		
NEUROPSYCHIATRIC FACILITY	15,000.0	15,000.0		
MEDICAL LOGISTICAL SERVICES ADDITION	10,000.0	10,000.0		
SITE RENOVATIONS/LANDSCAPE (RESID & DINING)	3,000.0	3,000.0		
NORTH RESIDENCE HALLS MAINT UPGRADE	9,000.0	3,000.0	3,000.0	3,000.0
BAKER HALL RENOVATION (DORM)	7,500.0	7,500.0		
WACK HALL RENOVATION (DORM)	4,000.0	2,000.0	2,000.0	
PARKING STRUCTURE "M"	6,730.0	6,730.0		
PRINTING FACILITY ADDITION	850.0	850.0		
FOOD SCIENCE FACILITY (AGRI) *	5,250.0		5,250.0	
BROWNFIELD HALL ADDITION (MANSFIELD) *	500.0		500.0	
RESEARCH CENTER RENOVATION	5,000.0		5,000.0	
RESEARCH PARK DEVELOPMENT (INFRASTRUCTURE)	3,000.0		3,000.0	
STUDENT HEALTH EQUIPMENT UPGRADE	265.0		265.0	
DOH SCOTT FIELD IMPROVEMENTS	2,200.0		2,200.0	
SPORTS PARK SITE DEVELOPMENT	2,000.0		2,000.0	
RESEARCH PARK RENOVATION/NEW CONSTRUCTION	10,000.0		10,000.0	
OUTDOOR AQUATIC CENTER	1,150.0		1,150.0	
PROPERTY ACQUISITIONS (SOUTH, KINHEAR, KENNY)	8,700.0		8,700.0	
WEIGHTLIFTING CENTER	125.0		125.0	
OHIO UNION ADDITION (4TH FLOOR)	3,600.0		3,600.0	
STORM/SANITARY SEWER SEPARATION	2,500.0		2,500.0	
SOUTH RESIDENCE HALLS MAINT UPGRADE	8,000.0		4,000.0	4,000.0
NEIL HALL RENOVATION (DORM)	3,000.0		3,000.0	
PARKING STRUCTURE "G"	8,850.0		8,850.0	
PRINTING FACILITY HVAC	525.0		525.0	
PARKING STRUCTURE "H"	10,970.0			10,970.0
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.

APPENDIX LXI

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
March 16, 1990

Presented to the Investments Committee and
Adopted by the Board of Trustees April 6, 1990
(See page 896)

THE OHIO STATE UNIVERSITY
Endowment Summary
 March 16, 1990

Office of the Treasurer

	<u>3/16/90</u>	<u>6/30/89</u>
Unallocated Cash	\$0	\$57,014,059
Equities:		
Chicago	36,156,800	34,629,320
R. Meeder (1)	13,014,325	0
Neuberger & Berman	13,775,102	13,552,018
Nicholas Applegate	13,703,694	11,475,663
Siebel	34,228,855	32,173,227
University Managed	30,113,125	29,154,054
University Students (2)	5,112,747	0
Wells Fargo EAFE (3)	8,186,508	0
Wells Fargo S&P 500 (4)	29,075,340	0
Total Equities	<u>183,366,496</u>	<u>120,984,282</u>
Fixed Income:		
Boatmen's Trust	22,762,224	23,841,580
Cambridge	923,002	951,048
Duff & Phelps	10,050,168	10,243,208
WR Lazard (5)	9,807,954	0
STW Fixed Income	23,111,524	24,150,270
University GNMA	9,990,143	10,144,887
University Managed	288,140	465,211
Total Fixed Income	<u>76,933,155</u>	<u>69,796,204</u>
Real Estate	<u>43,970,565</u>	<u>39,503,844</u>
Total Portfolio	<u><u>\$304,270,216</u></u>	<u><u>\$287,298,389</u></u>

<u>Asset Allocation</u>	<u>3/16/90</u>	<u>% of Portfolio</u>	<u>2/16/90</u>	<u>% of Portfolio</u>	<u>6/30/89</u>	<u>% of Portfolio</u>
Equities	\$167,649,709	55.10	\$162,692,819	54.13	\$106,021,220	36.90
Fixed Income	75,301,148	24.75	76,422,448	25.43	66,884,167	23.28
Real Estate	43,875,000	14.42	39,600,000	13.18	39,395,000	13.71
Cash	17,444,359	5.73	21,816,118	7.26	74,998,002	26.11
Total	<u><u>\$304,270,216</u></u>	<u>100.00</u>	<u><u>\$300,531,385</u></u>	<u>100.00</u>	<u><u>\$287,298,389</u></u>	<u>100.00</u>

(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

	Yield%	Market Value Change%	Total Return%
Chicago Corp (1.7)	2.7	15.1	17.8
R. Meeder (0.7)	1.3	(13.2)	(11.9) [1]
Neuberger & Berman (0)	2.8	12.1	14.9
Nicholas Applegate (1.8)	1.3	28.0	29.3
Siebel (40.7)	4.9	16.7	21.6
University Managed (0)	2.2	14.6	16.8
University Students (24.9)	0.2	2.3	2.5 [2]
Wells Fargo EAFE (0)	0.8	(18.1)	(17.3) [3]
Wells Fargo S&P 500 (0)	1.6	(3.1)	(1.5) [4]
S&P 500 (0)	3.9	16.8	20.7

Fixed Income

	Yield%	Market Value Change%	Total Return%
Boatmen's Trust (0.3)	7.7	6.9	14.6
Cambridge (100.0)	8.2	1.9	10.1
Duff & Phelps (0.3)	8.2	4.7	12.9
WR Lazard (0.1)	5.2	(1.9)	3.3 [1]
STW Fixed Income (0.9)	8.7	6.3	15.0
University GNMA (3.8)	9.6	5.0	14.6
University Managed (0)	13.5	(11.4)	2.1
Shearson Govt/Corp (0)	9.1	3.4	12.5

() Percent Cash 3/16/90

[1] Reflects return from initial allocation August 8, 1989 only.

[2] Reflects return from initial allocation February 20, 1990 only.

[3] Reflects return from initial allocation October 2, 1989 only.

[4] Reflects return from initial allocation October 6, 1989 only.

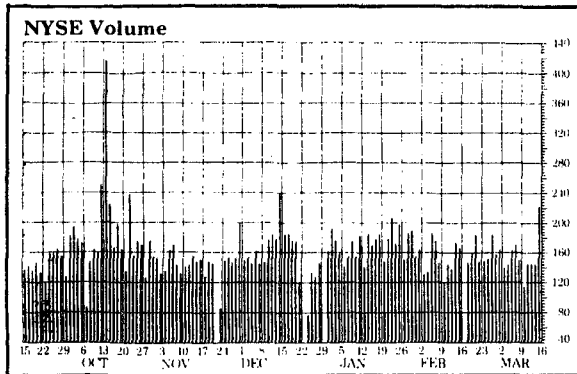
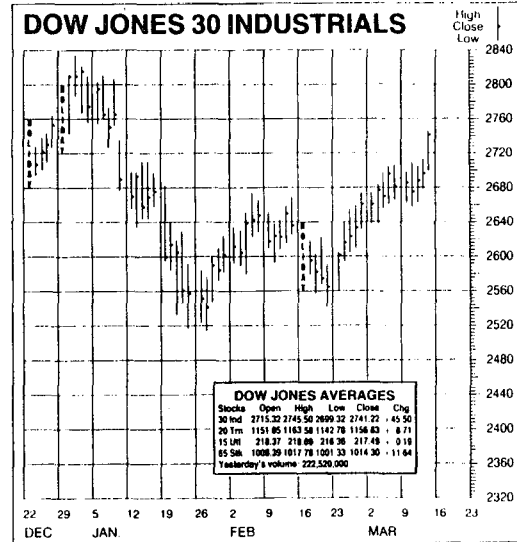
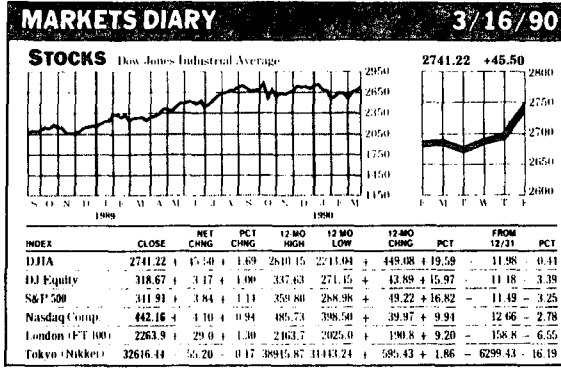
Change in Total Valuation

	Current Fiscal Year to Date
Market Value (6/30/89)	\$287,298,389
Principal Additions	17,507,282
Principal Withdrawals	(291,000)
Change in Market Value	(244,455)
Current Market Value	<u>\$304,270,216</u>

NOTE: Endowment Income from July 1, 1989 through March 31, 1990 totaled approximately \$12,025,000.

The Ohio State University Endowment Fund

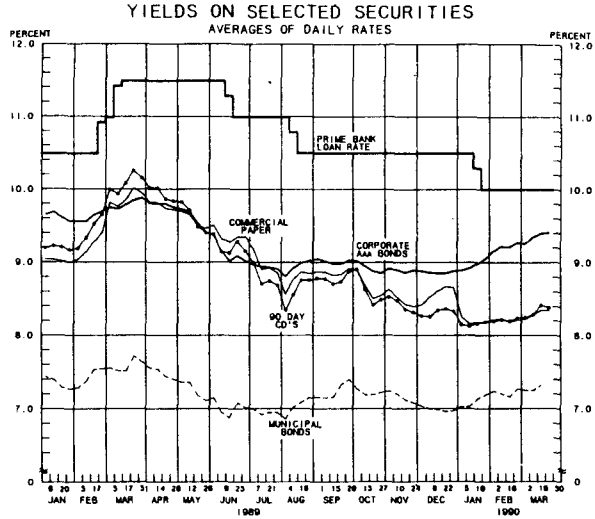
Equity Market Information



The Ohio State University Endowment Fund

Selected Yield and Interest Rates

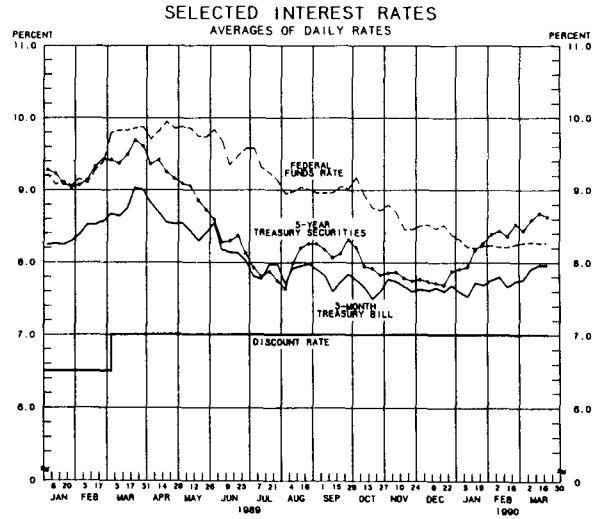
957



1990	90 DAY CD'S	20-DAY COMMERCIAL PAPER	90-DAY BANKERS' ACCEPTANCES	CORPORATE AAA BONDS	CORPORATE BAA BONDS	MUNICIPAL BONDS
JAN. 5	8.15	8.25	7.96	8.89	9.86	7.03
12	8.13	8.16	7.92	8.92	9.87	7.03
19	8.17	7.99	7.99	8.86	9.83	7.14
26	8.19	8.00	8.00	9.05	10.00	7.19
FEB. 2	8.20	8.22	8.01	9.15	10.10	7.24
9	8.22	8.23	8.02	9.22	10.13	7.20
16	8.20	8.19	8.01	9.21	10.11	7.16
23	8.24	8.22	8.05	9.27	10.19	7.27
MAR. 2	8.25	8.23	8.06	9.26	10.20	7.25
9	8.29	8.29	8.10	9.35	10.24	7.25
16	8.42	8.35	8.19	9.40	10.22	7.32
23	8.39	8.35	8.18	9.41	10.18	N.A.
30						

NOTE: CURRENT DATA APPEAR IN THE BOARD OF GOVERNORS' H-15 RELEASE.
 # AVERAGES OF RATES AVAILABLE
 ■ BOND BUYER'S AVERAGE INDEX OF 20 MUNICIPAL BONDS, THURSDAY DATA
 N.A. - NOT AVAILABLE

PREPARED BY FEDERAL RESERVE BANK OF ST. LOUIS



1990	FEDERAL FUNDS	3-MONTH TREASURY BILL	6-MONTH TREASURY BILL	1-YEAR TREASURY BILL	9-YEAR TREASURY SECURITIES	LONG-TERM TREASURY SECURITIES
JAN. 5	8.32	7.59	7.52	7.50	7.91	8.14
12	8.22	7.53	7.44	7.26	7.94	8.21
19	8.20	7.72	7.54	7.42	8.17	8.39
26	8.23	7.69	7.58	7.19	8.27	8.51
FEB. 2	8.24	7.76	7.73	7.54	8.39	8.61
9	8.22	7.80	7.72	7.58	8.44	8.63
16	8.21	7.85	7.85	7.50	8.36	8.58
23	8.25	7.74	7.77	7.81	8.53	8.75
MAR. 2	8.27	7.76	7.70	7.58	8.44	8.67
9	8.28	7.91	7.78	7.76	8.39	8.74
16	8.27	7.96	7.86	7.86	8.58	8.78
23	8.27	7.96	7.92	7.78	8.63	8.67
30						

NOTE: CURRENT DATA APPEAR IN THE BOARD OF GOVERNORS' H-15 RELEASE EXCLUDING LONG-TERM TREASURY SECURITIES WHICH ARE COMPUTED BY THIS BANK. TREASURY BILL YIELDS ARE ON A DISCOUNT BASIS.
 # AVERAGES OF RATES AVAILABLE
 ■ SEVEN-DAY AVERAGES FOR WEEK ENDING TWO DAYS EARLIER THAN DATE SHOWN
 ■■■ AUCTION AVERAGE (DISCOUNT)

PREPARED BY FEDERAL RESERVE BANK OF ST. LOUIS

THE OHIO STATE UNIVERSITY
Maturities and
Real Estate Activity

Maturities that Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>
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No maturities during the period

Real Estate

Acquisitions

<u>Description</u>	<u>Cost or</u> <u>Appraised Value</u>						
<p>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.</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Net Gift Value</td> <td style="text-align: right;">\$737,343.75</td> </tr> <tr> <td>Endowment Investment</td> <td style="text-align: right;"><u>3,537,656.25</u></td> </tr> <tr> <td>Appraised Value</td> <td style="text-align: right;"><u><u>\$4,275,000.00</u></u></td> </tr> </table>	Net Gift Value	\$737,343.75	Endowment Investment	<u>3,537,656.25</u>	Appraised Value	<u><u>\$4,275,000.00</u></u>
Net Gift Value	\$737,343.75						
Endowment Investment	<u>3,537,656.25</u>						
Appraised Value	<u><u>\$4,275,000.00</u></u>						

THE OHIO STATE UNIVERSITY
Equity Acquisitions

Purchases and Gifts During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Annual Dividend</u>
2,100	Barnett Banks, Inc.	Chicago	31.5000	\$66,286.50	\$2,520.00
9,000	Federal Signal Corp.	Chicago	21.2500	191,835.00	5,220.00
2,100	General RE Corp.	Chicago	87.9730	184,879.80	2,856.00
12,100	Hormel (Geo. A.) & Co.	Chicago	17.0000	206,486.50	2,783.00
500	Lance, Inc.	Chicago	21.6250	10,812.50	380.00
800	Liz Claiborne, Inc.	Chicago	23.2500	18,600.00	160.00
1,400	McGraw-Hill, Inc.	Chicago	54.3130	76,129.20	2,800.00
1,700	Tribune Co.	Chicago	42.7500	72,785.50	1,496.00
3,000	Woolworth (F.W.) Co.	Chicago	61.8450	185,730.00	5,640.00
5,000	Zurn Industries, Inc.	Chicago	39.0180	195,415.00	3,800.00
6,700	Limited, Inc.	Nicholas-Applegate	39.9800	268,268.00	2,144.00
21,000	Rowan Companies, Inc.	Nicholas-Applegate	12.8028	270,118.80	0.00
1,100	Tambrands, Inc.	Nicholas-Applegate	71.0312	78,200.30	2,376.00
15,000	Geraghty & Miller, Inc.	Siebel	13.0550	196,875.00	0.00
4,100	Promus Companies, Inc.	Siebel	28.4815	117,061.30	0.00
110	Ford Motor Co. *	University Managed	46.3694	5,100.63	330.00
2,000	American International Group, Inc.	University Students	96.5625	193,245.00	960.00
6,000	American Telephone & Telegraph Co.	University Students	40.6437	244,282.50	7,200.00
5,000	Banc One Corp.	University Students	29.1750	146,175.00	5,200.00
5,000	Cooper Tire & Rubber Co.	University Students	33.8375	169,487.50	1,800.00
5,000	Edison Brothers Stores, Inc.	University Students	32.5750	163,215.00	9,000.00
5,000	Fifth Third Bancorp	University Students	32.0000	160,300.00	6,600.00
4,000	Great Lakes Chemical Corp.	University Students	46.0140	184,240.00	1,600.00
8,000	Hanna (M.A.) Co.	University Students	24.4844	196,385.00	3,200.00
5,000	Limited, Inc.	University Students	37.2500	186,550.00	1,600.00
4,000	Medtronics, Inc.	University Students	63.2812	253,375.00	2,800.00
3,000	PepsiCo, Inc.	University Students	59.6250	179,055.00	3,000.00
3,000	Procter & Gamble Co.	University Students	65.9583	198,075.00	5,400.00
6,000	Rubbermaid, Inc.	University Students	32.9833	198,260.00	3,120.00
10,000	Savannah Foods & Industries, Inc.	University Students	26.5000	265,600.00	11,600.00

Continued next page

THE OHIO STATE UNIVERSITY
Equity Acquisitions

Purchases and Gifts During Period (continued)

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Annual Dividend</u>
3,000	Smucker (J.M.) Co.	University Students	68.1250	\$204,555.00	\$3,120.00
5,000	Wal-Mart Stores, Inc.	University Students	46.3750	232,175.00	1,100.00
5,000	Walgreen Co.	University Students	42.0375	210,487.50	4,000.00
7,000	Waste Management, Inc.	University Students	34.2679	240,365.00	4,480.00
5,000	Worthington Industries, Inc.	University Students	20.6250	103,425.00	2,800.00
				<u>\$5,873,836.53</u>	<u>\$111,085.00</u>

* Gift

THE OHIO STATE UNIVERSITY
Equity Sales

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Total Sale</u>	<u>Gain (Loss)</u>
1,700	Disney (Walt) Co.	Chicago	110.7410	\$188,142.92	\$93,225.12
1,281	LIN Broadcasting Corp.	Chicago	154.1100	197,414.91	125,198.53
5,200	Nordstrom, Inc.	Chicago	29.0455	151,036.60	(6,263.40)
3,700	Pitney Bowes, Inc.	Chicago	44.7890	165,473.27	111,003.26
2,500	Rohm & Haas Co.	Chicago	30.5000	76,084.95	(7,635.05)
3,600	Sigma-Aldrich Corp.	Chicago	56.1875	202,275.00	39,375.00
2,900	Tambrands, Inc.	Chicago	73.2500	212,229.41	55,240.81
6,000	Teleflex, Inc.	Chicago	29.2500	175,104.15	20,330.85
6,800	UJB Financial Corp.	Chicago	17.0030	115,174.54	(41,667.46)
5,000	Weis Markets, Inc.	Chicago	30.0000	149,670.00	6,220.00
2,000	Foster Wheeler, Inc.	Nicholas-Applegate	23.4300	46,738.43	4,217.79
7,100	National Medical Enterprises, Inc.	Nicholas-Applegate	30.4977	216,100.67	(36,929.74)
3,200	Neiman Marcus Group, Inc.	Nicholas-Applegate	16.4498	52,445.49	(1,350.38)
9,300	Seagate Technology	Nicholas-Applegate	17.7193	164,789.75	39,418.84
2,200	Transco Energy Co.	Nicholas-Applegate	41.5043	91,174.44	(8,463.24)
4,000	Wheelaborator Technologies, Inc.	Nicholas-Applegate	34.1742	136,452.13	(12,781.88)
1,331	Bass Public Limited Co.	Siebel	15.8750	21,035.75	1,276.20
18,000	Cooper Industries, Inc.	Siebel	38.9720	700,212.61	222,802.79
15,000	Novell, Inc.	Siebel	37.2500	558,750.00	81,870.00
10,000	Toys-R-Us, Inc.	Siebel	41.1090	410,376.29	188,194.86
17	Mobil Corp. *	University Managed	61.6253	1,044.19	61.38
68	Southwest Bell Corp. *	University Managed	57.2501	3,879.27	203.02
1,190	Webster Industries, Inc. *	University Managed	29.0000	34,510.00	(4,685.10)
				<u>\$4,070,114.77</u>	<u>\$868,862.20</u>

* Gift

THE OHIO STATE UNIVERSITY
Fixed Income Acquisitions

Purchases and Gifts During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Price</u>	<u>Investment</u>
3,710,000	U.S. Treasury Bond 0.000% 02-15-19	Boatmen's	0.0000	8.2781	9.5630	\$354,787.30
2,000,000	U.S. Treasury Note 8.500% 02-15-00	Duff & Phelps	8.5427	8.5743	99.5000	1,990,000.00
1,000,000	NCNB Corp. 9.375% 09-15-09	STW	10.0849	10.2139	92.9610	929,610.00
1,000,000	New York State Dorm Revenue Series B 7.250% 05-15-15	STW	7.5718	7.6307	95.7500	957,500.00
1,000,000	U.S. Treasury Bond 10.750% 08-15-05	STW	9.2324	8.7840	116.4375	1,164,375.00
						<u>\$5,396,272.30</u>

THE OHIO STATE UNIVERSITY
Fixed Income Sales

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Price</u>	<u>Total Sale</u>	<u>Gain (Loss)</u>
3,600,000	U.S. Treasury Bond 0.000% 11-15-18	Boatmen's	9.8440	\$354,384.00	(\$8,568.00)
930,000	U.S. Treasury Bond 8.125% 08-15-19	Cambridge	94.0313	874,490.63	(15,548.43)
2,000,000	U.S. Treasury Note 7.000% 04-15-94	Duff & Phelps	94.4062	1,888,125.00	30,000.00
100,000	U.S. Treasury Note 8.125% 02-15-98	Duff & Phelps	97.0156	97,015.63	(2,834.07)
1,000,000	Triborough Bridge NY-Municipal 7.125% 01-01-19	STW	94.1300	941,300.00	(41,200.00)
1,000,000	New York State Dorm Revenue Series A 7.125% 05-15-17	STW	94.0140	940,140.00	(18,650.00)
354,772	Ford Credit 1989A Grantor Trust 8.700% 10-17-94	STW	98.6719	350,060.46	(3,270.56)
550,000	U.S. Treasury Bond 9.250% 02-15-16	STW	105.0781	577,929.69	(27,620.61)
				<u>\$6,023,445.41</u>	<u>(\$87,691.67)</u>

THE OHIO STATE UNIVERSITY
Real Estate Investments

	<u>Yield</u>	<u>Year</u> <u>Acquired</u>	<u>Carrying</u> <u>Value</u>	<u>Appraised</u> <u>Value</u>	<u>Date</u> <u>Appraised</u>
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 (1)	26,000	N/A
Hangar addition at Don Scott Field (Loan)	10.00%	1978	69,565 (1)	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%	1982	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
			<u>\$15,601,506</u>	<u>\$43,970,565</u>	

(1) Amount represents balance on loan made to Department of Aviation



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261

MEMORANDUM

Subject: Proxy Solicitations
Date: March 30, 1990
From: James L. Nichols, Treasurer *James L. Nichols*
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
- 32) CoreStates
- 33) Corning Incorporated
- 34) CPC International, Incorporated
- 35) Crompton and Knowles Corporation
- 36) Cummins Engine Company, Incorporated
- 37) Dover Corporation
- 38) The Dun and Bradstreet Corporation
- 39) First Virginia Banks, Incorporated
- 40) Fleet/Norstar Financial Group
- 41) Fleming Companies, Incorporated
- 42) 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) Hartmarx 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) Weyerhaeuser Company
- 97) Wells Fargo and Company
- 98) William Wrigley Jr. Company
- 99) Willamette Industries, Incorporated
- 100) Wilmington Trust
- 101) Yellow Frieht System Incorporated of Delaware

APPENDIX LXII

AMERIFLORA '92

Presented to the Agricultural Affairs Committee
April 6, 1990
(See page 918)



Office of the Vice President
for Agricultural Administration

Room 100
2120 Fyffe Road
Columbus, OH 43210-1099
Phone 614-292-6891

REPORT TO
AGRICULTURAL AFFAIRS COMMITTEE
BOARD OF TRUSTEES
April 6, 1990
AMERIFLORA '92

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

	1986-87	1987-88	1988-89	Total
Salaries & Wages (a)				
Director	36,192	38,016	39,552	113,760
Coordinator	7,166	28,360	44,850	80,376
Specials		14,272		14,272
Total Salaries	43,358	80,648	84,402	208,408
Employee Benefits	8,545	16,292	16,212	41,050
Supplies & Services				
Mailing			17	17
Equipment Rental	439	7,662	0	8,100
Rental of Space	11,895	11,719	13	23,626
Reproduction Service	112			112
Travel	6,950	5,413		12,364
Total Supplies	19,396	24,794	30	44,219
Equipment Purchases	5,253			5,253
Total Expenses	76,552	121,734	100,644	298,930
Amount Reimbursed (b)			53,289	53,289
Net Expenses	76,552	121,734	47,355	245,641

Expenses By Type Of Support:

General Funds				
Ameriflora	75,165	116,321	47,355	238,841
President's Reserve		5,413		5,413
Humanities (Quincy)	1,387			1,387
Total Gen Funds	76,552	121,734	47,355	245,641
Agency Fund			53,289	53,289
Total Expenses	76,552	121,734	100,644	298,930

(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)**

April 6, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

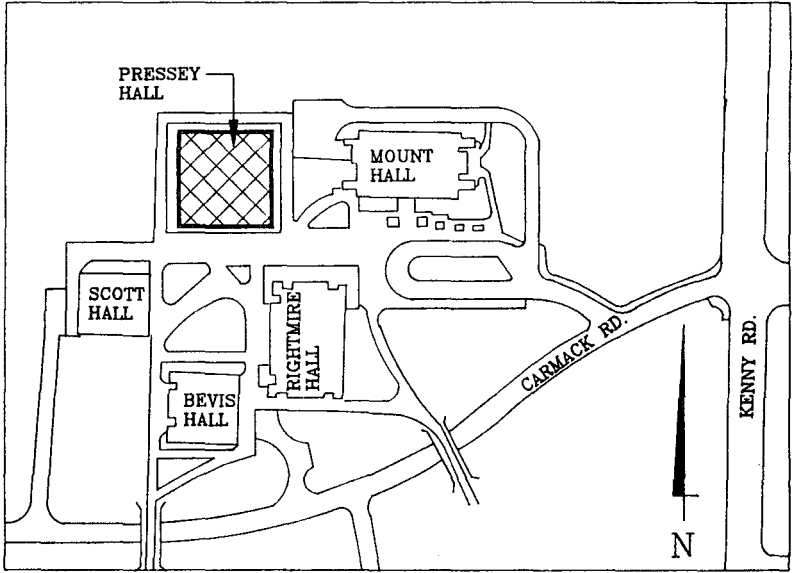
PRESSEY HALL - OFFICE OF CAREER DEVELOPMENT

Tabulation of Bids

Bids received by The Ohio State University on February 21, 1990. Bids opened by Jean Frey and tabulated by Ray Vanscik. Awards indicated with an "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Williamson *</u>	<u>Powell</u>	<u>Miles</u>
Base Bid	\$101,000.00	\$86,350.00	\$93,370.00	\$99,400.00
Total General Contract	\$101,000.00	\$86,350.00	\$93,370.00	\$99,400.00
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
<u>Mechanical Contract</u>	<u>Estimate</u>	<u>Ro-Dan *</u>	<u>J & K</u>	<u>Miles</u>
Base Bid	\$65,000.00	\$63,300.00	\$64,960.00	\$66,000.00
Total Mechanical Contract	\$65,000.00	\$63,300.00	\$64,960.00	\$66,000.00
Mechanical Contract (Cont)	<u>Marco</u>	<u>Edmonds</u>		
Base Bid	\$66,989.00	\$77,500.00		
Total Mechanical Contract	\$66,989.00	\$77,500.00		
<u>Electric Contract</u>	<u>Estimate</u>	<u>Edmonds *</u>	<u>Advantage</u>	<u>Steagall</u>
Base Bid	\$75,000.00	\$73,500.00	\$73,966.00	\$78,946.00
Total Electric Contract	\$75,000.00	\$73,500.00	\$73,966.00	\$78,946.00
Electric Contract (Continued)	<u>Smith & Bruce</u>			
Base Bid	\$139,320.00			
Total Electric Contract	\$139,320.00			

PRESSEY HALL REMODELING FOR OFFICE OF CAREER DEVELOPMENT



OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 8, 1990

April 6, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

ROBINSON LABORATORY RENOVATION

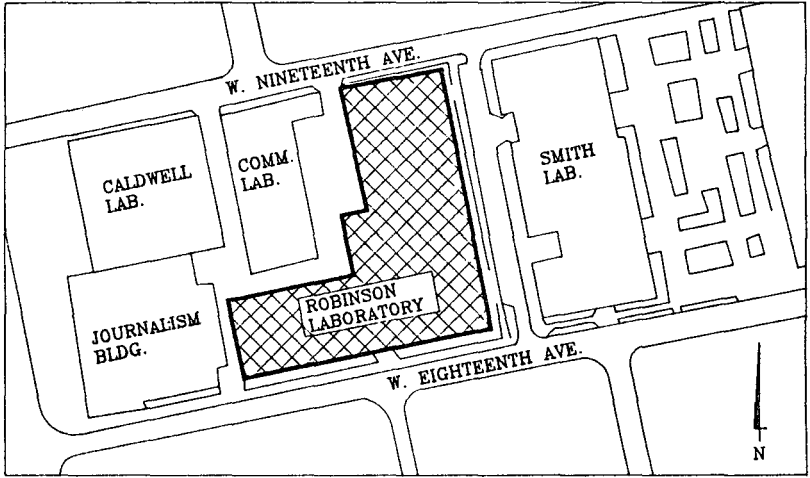
Tabulation of Bids

Bids received by The Ohio State University on February 13, 1990. Bids opened by Tamara Bell and tabulated by Ray Janscik. Awards indicated with an "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Waller & Lund *</u>	<u>Ed Ross</u>	<u>GWN</u>
Base Bid	\$137,186.00	\$134,760.00	\$147,300.00	\$162,266.00
Total General Contract	\$137,186.00	\$134,760.00	\$147,300.00	\$162,266.00
Alternates not taken:				
Alt. G-1 (Metal Stud Sound Walls)	\$6,000.00	\$12,280.00	\$12,279.00	\$12,172.00
Alt. G-2 (Valving of Pits)	4,000.00	16,830.00	17,138.00	17,335.00
Alt. G-3 (Lighting of Pits)	9,000.00	3,960.00	4,027.00	4,274.00
Alt. G-4 (Removable Floor Slab System)	24,000.00	46,500.00	60,308.00	62,104.00

<u>General Contract (Cont.)</u>	<u>AIRCO</u>	<u>Functional</u>	<u>M & P</u>
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:			
Alt. G-1 (Metal Stud Sound Walls)	\$16,000.00	\$11,000.00	\$14,000.00
Alt. G-2 (Valving of Pits)	24,000.00	17,000.00	14,490.00
Alt. G-3 (Lighting of Pits)	27,000.00	5,000.00	3,787.00
Alt. G-4 (Removable Floor Slab System)	41,900.00	82,010.00	37,900.00

ROBINSON LABORATORY RENOVATION



OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 6, 1990

April 6, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

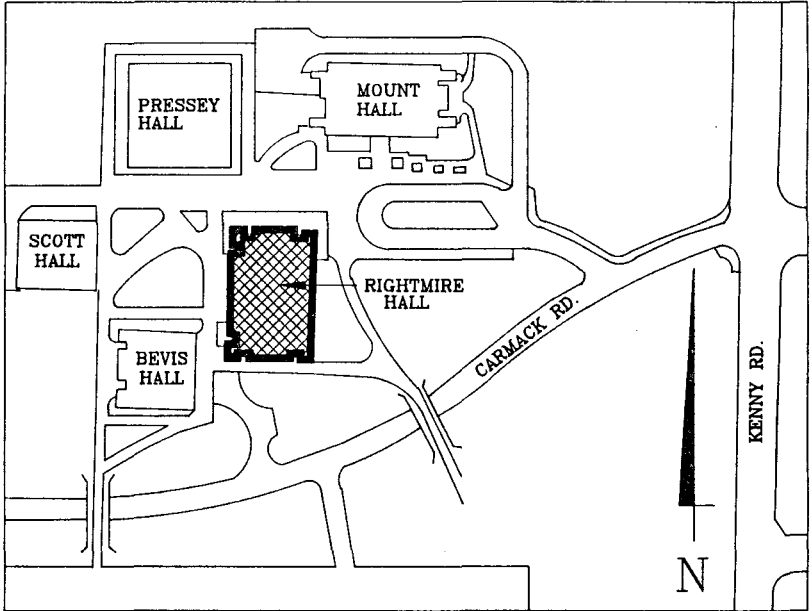
RIGHTMERE HALL RENOVATION - PHASE II, DEMOLITION

Tabulation of Bids

Bids received by The Ohio State University on February 15, 1990. Bids opened by Tamara Bell and tabulated by Ray Janscik. Awards indicated with an "**".

<u>General Contract</u>	<u>Estimate</u>	<u>Cody Zeigler *</u>	<u>Ed Ross</u>	<u>Mid-State</u>
Base Bid	\$549,480.00	\$307,000.00	\$327,800.00	\$344,300.00
Total General Contract	\$549,480.00	\$307,000.00	\$327,800.00	\$344,300.00
<u>General Contract (Cont.)</u>	<u>Altman</u>	<u>Functional</u>	<u>GM</u>	<u>AIRCO</u>
Base Bid	\$353,627.00	\$388,620.00	\$425,700.00	\$430,000.00
Total General Contract	\$353,627.00	\$388,620.00	\$425,700.00	\$430,000.00

RIGHTMIRE HALL RENOVATION PHASE II, DEMOLITION



OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 6, 1990

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.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Leslie H. Wexner, Alex Shumate, Sophia L. Paige, and Laurel A. Davis.

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**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.

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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.

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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.

May 3, 1990 meeting, Board of Trustees

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.

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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.)

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ACADEMIC AFFAIRS COMMITTEE REPORT

Ms. Casto:

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.

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.

May 3, 1990 meeting, Board of Trustees

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.

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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.

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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.

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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, neurology, 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.

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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.

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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:

May 3, 1990 meeting, Board of Trustees

HOSPITALS BOARD APPOINTMENT (contd)

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.

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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.

May 3, 1990 meeting, Board of Trustees

Honorary Degrees (contd)

Background (contd)

Hildegard E. Peplau (contd)

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.

HONORARY DEGREES

Resolution No. 90-114

Synopsis: The Academic Affairs Committee recommended approval for awarding honorary degrees to Edward H. Jennings and Hildegard E. Peplau.

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:

Edward H. Jennings	Doctor of Humane Letters
Hildegard E. Peplau	Doctor of Humane Letters

NOW THEREFORE

BE IT RESOLVED, That the above 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. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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DEGREES AND CERTIFICATES - SPRING QUARTER COMMENCEMENT

Resolution No. 90-115

Synopsis: The Academic Affairs Committee recommended 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

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.

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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

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

Name: GARY L. FLOYD
Title: Dean
College: Biological Sciences
Effective: April 1, 1990
Salary: \$99,960.00
Present Position: Acting Dean, College of Biological Sciences and Professor, Department of Botany

Name: DAVID HOTHERSALL
Title: Director
Office: University Honors Program/Academic Affairs
Effective: September 1, 1990
Salary: \$72,360.00
Present Position: Professor, Department of Psychology

Appointment

Name: BHARAT BHUSHAN
Title: Professor (Ohio Eminent Scholar in Mechanical Systems)
Department: Mechanical Engineering
Effective: January 1, 1991
Salary: \$102,000.00
Present Position: Senior Engineer/Manager, Head-Disk Interface, Research Division, Almaden Research Center, IBM Corporation, San Jose, California

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)

May 3, 1990 meeting, Board of Trustees

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
- 1976 - 1980 Mechanical Technology Inc., Advanced Technology, R & D Division, Latham, NY
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

May 3, 1990 meeting, Board of Trustees

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

Donald Harris*

July 1, 1990 through June 30, 1994

Art
Veterinary Pathobiology

Robert Shay
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.)

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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.

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.

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 solely 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.

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.

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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.

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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.

FISCAL AFFAIRS COMMITTEE (contd)

President Jennings: (contd)

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.

FISCAL AFFAIRS COMMITTEE (contd)

President Jennings: (contd)

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.

FISCAL AFFAIRS COMMITTEE (contd)

President Jennings: (contd)

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)

May 3, 1990 meeting, Board of Trustees

**Waivers of Competitive Bidding Requirements
January-March 1990 (contd)**

Background (contd)

Cancer Hospital Equipment & Services	212,162	(4 waivers)
Artists, Art Work, & Speakers	489,807	(8 waivers)
Teaching & Research Equipment & Services	402,352	(9 waivers)
Administrative Support Services	131,998	(3 waivers)
Conference Facilities	125,000	(1 waiver)

**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.

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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.

May 3, 1990 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, 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

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	125	\$11,341,704.38
Engineering Experiment Station	37	\$ 535,161.00
Total	162	\$11,876,865.38

The Ohio State University Development Fund

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
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The Cardinal Distribution, Inc., Cancer Research Endowment Fund (Support cancer research)	\$ 15,000.00
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The Willis T. Kubiak Memorial Fund (Provide support for the library in the Division of Orthopedic Surgery)	\$ 15,000.00
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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
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Change in Description of Named Fund

Cynthia Cook Dissertation Scholarship in
Early and Middle Childhood Education

May 3, 1990 meeting, Board of Trustees

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - March 1990

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. Tzamouris) 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)

\$394,355.50 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Costa Rica Policy Conference, Department of Agricultural Economics and Rural Sociology (R. L. Meyer and C. Gonzalez-Vega), 30 September 1989 through 31 August 1994. (Project 767920 - Continuation)

\$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 766873 - Continuation)

\$292,804.00 - National Science Foundation, Washington, D.C., 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. K. Waits), 1 November 1989 through 30 April 1991. (Project 766335 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$127,350.00 - Environmental Protection Agency, Washington, D.C., Biological Consequences of Global Atmospheric Hydrocarbons on Human Neonatal Fibroblasts: Molecular Models Applicable to the Analysis of Electronic and Steric Effects of Substituents on Structure-Toxicity Relationships, College of Pharmacy (D. T. Witiak), 22 February 1989 through 21 February 1991. (Project 767314 - Continuation)

\$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 Turbofan, 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)

\$114,972.00 - National Science Foundation, Washington, D.C., Broadband Seismic Imaging of Lithospheric Structure: Application to the Transantarctic Mountain Front and the Bentley Subglacial Trench, Byrd Polar Research Center (D. H. Elliot and D. R. O'Connell), 15 March 1990 through 28 February 1991. (Project 768179 - New)

\$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_A Receptors, Department of Pharmacology (A. Frosthalm), 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$86,000.00 - National Science Foundation, Washington, D.C., Collaborative Research: Joint Studies with Soviet Scientists to Secure Parallel Histories of Climatic Change in Siberia and Alaska, Byrd Polar Research Center and Department of Zoology (P. A. Colinvaux), 1 March 1990 through 28 February 1991. (Project 768126 - New)

\$83,300.00 - 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), 1 March 1990 through 28 February 1991. (Project 767324 - Continuation)

\$83,132.00 - 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), 7 February 1990 through 28 February 1991. (Project 766671 - Continuation)

\$79,532.00 - 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 1990 through 28 February 1991. (Project 767359 - Continuation)

\$77,500.00 - 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 1990 through 31 March 1991. (Project 766330 - 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 March 1990 through 31 December 1990. (Project 766488 - Continuation)

\$74,994.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Studies on Electromagnetic Scattering, ElectroScience Laboratory, Department of Electrical Engineering (P. H. Pathak), 1 February 1990 through 31 January 1991. (Project 763822 - Continuation)

\$74,480.00 - 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 1990 through 30 September 1991. (Project 766684 - Continuation)

\$73,500.00 - National Science Foundation, Washington, D.C., Low Temperature Electronic Properties of Conducting Solids, Department of Physics (J. C. Garland), 1 March 1990 through 28 February 1991. (Project 767331 - Continuation)

\$73,167.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Contact Lens Evaluation in Keratoconus, College of Optometry (J. T. Barr), 5 March 1990 through 28 February 1991. (Project 768122 - New)

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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 767286 - 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. Altan), 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)

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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)

\$34,846.00 - National Science Foundation, Washington, D.C., 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), 15 October 1989 through 31 October 1990. (Project 767154 - Continuation)

\$31,700.00 - National Science Foundation, Washington, D.C., An Investigation of Vesicle Distributions in Basalt as a Tool for the Determination of Paleo-Atmospheric Pressure -- Phase I: Calibration, Department of Geology and Mineralogy (D. L. Sahagian and J. W. Collinson), 1 March 1990 through 31 August 1991. (Project 768135 - 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)

\$24,600.00 - National Science Foundation, Washington, D.C., The Movement of Gas and Crystals Beneath Kilauea, Department of Geology and Mineralogy (D. L. Sahagian and J. W. Collinson), 1 March 1990 through 29 February 1992. (Project 767965 - 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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

\$13,234.00 - National Science Foundation, Washington, D.C., The Antarctic Lithospheric Advisory Committee, 1990 - 1993, Byrd Polar Research Center and Department of Geology and Mineralogy (D. H. Elliot), 1 April 1990 through 31 March 1991. (Project 768139 - New)

\$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/Pharmacy, Office of Minority Affairs (L. G. Morrow), 1 March 1990 through 28 February 1991. (Project 768147 - 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 768146 - Continuation)

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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)

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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)

\$65,116.00 - Fort Dodge Laboratories, Fort Dodge, Iowa, Evaluation of an Escherichia coli J-5 Vaccine for Prevention of Infection Following Intramammary Challenge with a Wild Strain of E. Coli, Department of Dairy Science - OARDC (J. S. Hogan and K. L. Smith), 1 January 1990 through 31 December 1990. (Project 768136 - 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)

\$30,015.00 - 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 February 1990 through 31 January 1991. (Project 767264 - 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)

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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. Kredler), 1 July 1990 through 31 March 1991. (Project 767533 - Continuation)

\$19,445.00 - Molecular Biosystems, Inc., San Diego, California, Efficacy and Safety Study of Intravenous Albuterol Injections for Enhancing Image Contrast in Echocardiography in the Right Ventricle, Department of Internal Medicine (A. C. Pearson), 1 February 1990 through 31 January 1991. (Project 768141 - New)

\$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. Valco), 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

\$136,596.00 - National Training Fund for the Sheet Metal and Air-Conditioning Industry, Washington, D.C., National Training Fund University Center for the Sheet Metal and Air-Conditioning Industry, 1989-91, Center on Education and Training for Employment (R. D. Ryan), 1 January 1990 through 31 December 1990. (Project 767176 - Continuation)

\$105,694.00 - Smokeless Tobacco Research Council, Inc., New York, New York, Effect of Smokeless Tobacco on Root Caries in Humans and Animals, Oral Biology (S. Rosen and K. Schroeder), 1 July 1990 through 30 June 1991. (Project 767426 - Continuation)

\$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)

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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 768170 - New)

\$34,300.00 - Arizona Public Service Company, Phoenix, Arizona, Consortium for the Development of Instructor Training Materials for the Electric Power Industry - Affiliate, Center on Education and Training for Employment (R. D. Ryan), 1 September 1989 through 31 January 1991. (Project 768132 - Continuation)

\$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. Flancbaum), 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)

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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)

\$5,000.00 - Wenner-Gren Foundation for Anthropological Research, Inc., New York, New York, Middle Woodland Exchange of Flint Bladelets in the Scioto River Valley: A Test of a New Method of Sourcing Flint Based on Normative Mineral Compositions, Department of Anthropology (R. W. Yerkes), 3 January 1990 through 30 November 1991. (Project 768140 - 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.

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 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.

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 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. Kubiak Memorial Fund

The Willis T. Kubiak 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. Kubiak (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.

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)

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.

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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.

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**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:

**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

Amount: \$76,666.00

Estimate: \$73,000.00

Total All Contracts: \$76,666.00

Contingency Allowance: \$ 6,134.00 (8% of construction cost)

Total Project Cost: \$84,800.00

**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

**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.

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**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.

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**Sale of Real Property
Marysville Veterinary Clinic
Marysville, Ohio**

Background

Description

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

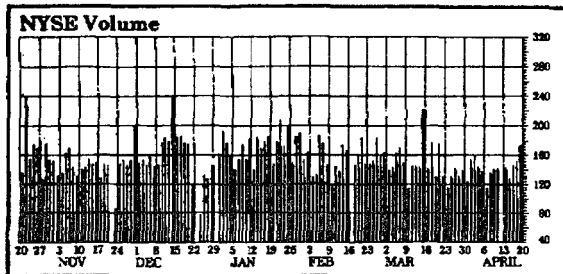
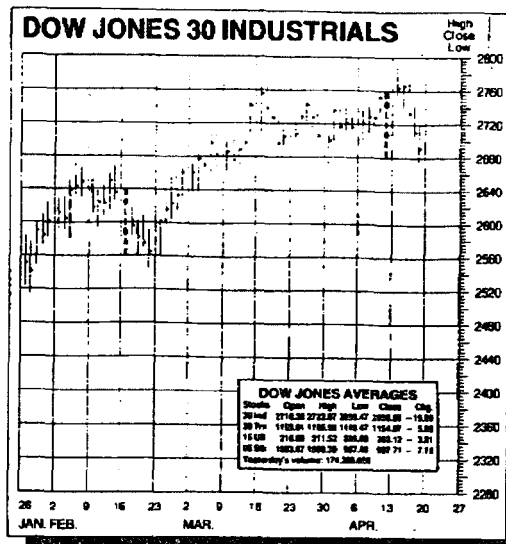
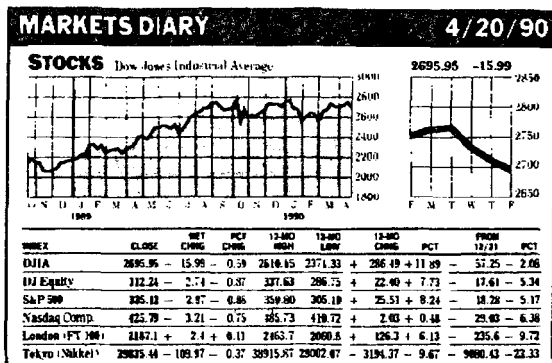
April 20, 1990

Office of the Treasurer



The Ohio State University Endowment Fund

Equity Market Information

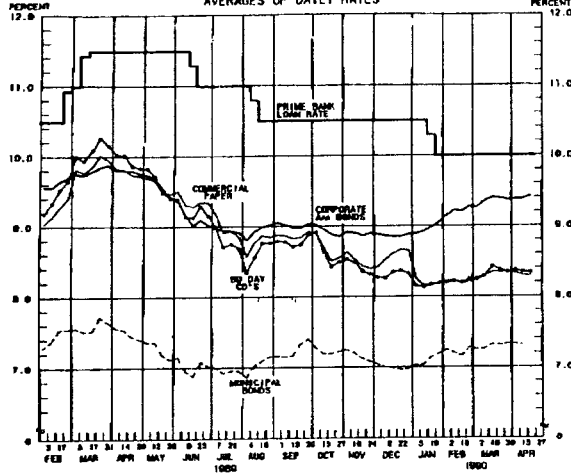


The Ohio State University Endowment Fund

Selected Yield and Interest Rates

YIELDS ON SELECTED SECURITIES

AVERAGES OF DAILY RATES



LATEST DATA PLOTTED ARE AVERAGES OF RATES AVAILABLE FOR THE WEEK ENDING APRIL 20, 1980.

1980	90-DAY T-BILLS	90-DAY COMMERCIAL PAPER	90-DAY BANKERS' ACCEPTANCES	CORPORATE JAN BONDS	CORPORATE MAY BONDS	MUNICIPAL BONDS (B)
FEB. 2	8.20	8.72	8.01	8.15	10.10	7.24
9	8.22	8.25	8.02	8.22	10.13	7.20
16	8.29	8.18	8.01	8.21	10.11	7.19
23	8.24	8.27	8.05	8.27	10.19	7.27
MAR. 2	8.25	8.20	8.06	8.20	10.26	7.25
9	8.29	8.28	8.10	8.20	10.24	7.23
16	8.42	8.35	8.19	8.40	10.22	7.32
23	8.36	8.35	8.18	8.39	10.17	7.31
30	8.35	8.35	8.18	8.37	10.29	7.33
APR. 6	8.37	8.34	8.17	8.38	10.22	7.33
13	8.30	8.14	8.14	8.38	10.18	7.31
20	8.32	8.29	8.15	8.42	10.22	N.A.

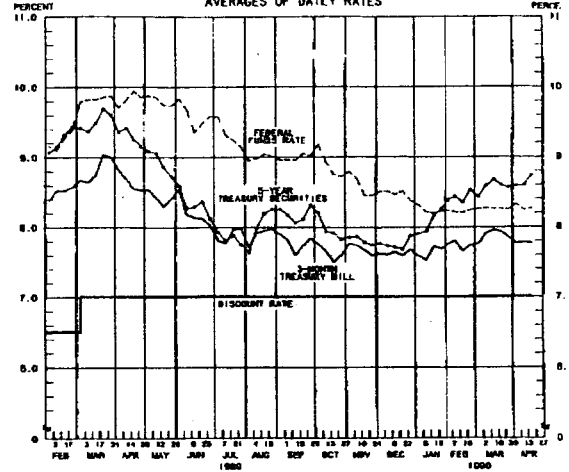
NOTE: CURRENT DATA APPEAR ON THE BOARD OF GOVERNORS' N-15 RELEASE.
 B AVERAGES OF RATES AVAILABLE.
 M 90-DAY T-BILL AVERAGE. T 90-DAY COMMERCIAL PAPER AVERAGE. J 90-DAY BANKERS' ACCEPTANCE AVERAGE. C 90-DAY CORPORATE JANUARY BONDS AVERAGE. M 90-DAY CORPORATE MAY BONDS AVERAGE. N.A. - NOT AVAILABLE.

N.A. - NOT AVAILABLE

PREPARED BY FEDERAL RESERVE BANK OF ST. LOUIS

SELECTED INTEREST RATES

AVERAGES OF DAILY RATES



LATEST DATA PLOTTED ARE AVERAGES OF RATES AVAILABLE FOR THE WEEK ENDING APRIL 20, 1980.

1980	FEDERAL FUNDS RATE	3-MONTH TREASURY BILL	6-MONTH TREASURY BILL	1-YEAR TREASURY BILL	5-YEAR TREASURY SECURITIES	LONG-TERM TREASURY SECURITIES
FEB. 2	8.24	7.76	7.75	7.54	8.98	8.63
9	8.22	7.80	7.72	7.58	8.94	8.58
16	8.21	7.80	7.65	7.50	8.96	8.58
23	8.25	7.74	7.77	7.54	8.93	8.75
MAR. 2	8.27	7.76	7.77	7.59	8.94	8.57
9	8.29	7.81	7.79	7.69	8.99	8.74
16	8.29	7.86	7.89	7.79	8.98	8.79
23	8.27	7.83	7.82	7.78	8.98	8.85
APR. 6	8.25	7.85	7.83	7.75	8.97	8.88
13	8.33	7.77	7.81	7.71	8.98	8.72
20	8.25	7.79	7.83	7.78	8.93	8.72
27	8.27	7.77	7.75	7.78	8.94	8.88

NOTE: CURRENT DATA APPEAR ON THE BOARD OF GOVERNORS' N-15 RELEASE. EXCEPT FOR LONG-TERM TREASURY SECURITIES WHICH ARE COMPILED BY THIS BANK. TREASURY BILL YIELDS ARE ON A DISCOUNT BASIS.
 B AVERAGES OF RATES AVAILABLE.
 M 90-DAY T-BILL AVERAGE. T 90-DAY TREASURY BILL AVERAGE. J 90-DAY TREASURY BILL AVERAGE. C 90-DAY CORPORATE JANUARY BONDS AVERAGE. M 90-DAY CORPORATE MAY BONDS AVERAGE. N.A. - NOT AVAILABLE.

PREPARED BY FEDERAL RESERVE BANK OF ST. LOUIS

THE OHIO STATE UNIVERSITY
Portfolio Summary

	<u>4/20/90</u>	<u>6/30/89</u>
Unallocated Cash	\$228,820	\$57,014,059
Equities:		
Chicago	35,504,724	34,829,320
R. Meader (1)	12,517,091	0
Neuberger & Berman	13,298,855	13,552,018
Nicholas Applegate	13,334,851	11,475,663
Siebel	33,872,129	32,173,227
University Managed	29,897,005	29,154,054
University Students (2)	5,210,237	0
Wells Fargo EAFE (3)	8,484,934	0
Wells Fargo S&P 500 (4)	28,824,570	0
Total Equities	<u>181,044,396</u>	<u>120,984,282</u>
Fixed Income:		
Boatmen's Trust	21,805,230	23,841,580
Cambridge	911,049	951,048
Duff & Phelps	9,875,821	10,243,208
WR Lazard (5)	9,658,496	0
STW Fixed Income	22,349,409	24,150,270
University GNMA	9,839,811	10,144,887
University Managed	263,063	465,211
Total Fixed Income	<u>74,700,479</u>	<u>69,796,204</u>
Real Estate	<u>43,969,022</u>	<u>39,503,844</u>
Total Portfolio	<u>\$299,942,717</u>	<u>\$287,298,389</u>

<u>Asset Allocation</u>	<u>4/20/90</u>	% of <u>Portfolio</u>	<u>3/15/90</u>	% of <u>Portfolio</u>	<u>6/30/89</u>	% of <u>Portfolio</u>
Equities	\$165,139,878	55.08	\$167,649,709	55.10	\$108,021,220	36.90
Fixed Income	73,062,994	24.36	75,301,148	24.75	66,884,167	23.28
Real Estate	43,875,000	14.63	43,875,000	14.42	39,395,000	13.71
Cash	17,864,845	5.95	17,444,359	5.73	74,998,002	26.11
Total	<u>\$299,942,717</u>	<u>100.00</u>	<u>\$304,270,216</u>	<u>100.00</u>	<u>\$287,298,389</u>	<u>100.00</u>

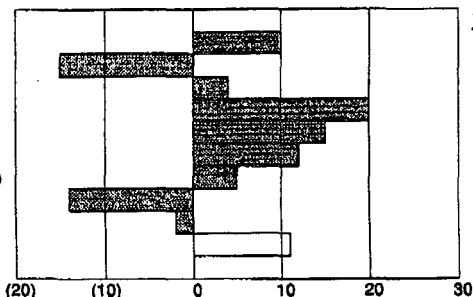
- (1) R. Meader began as an advisor on August 8, 1989 with \$15,000,000.
(2) University Students began as advisor on February 20, 1990 with \$5,000,000.
(3) Wells Fargo EAFE began as an advisor on October 2, 1989 with \$10,000,000.
(4) Wells Fargo S&P 500 began as an advisor on October 6, 1989 with \$30,000,000.
(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

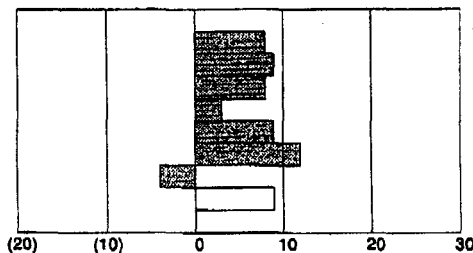
Chicago Corp (1.4)
R. Meeder (0.7)
Neuberger & Berman (0)
Nicholas Applegate (0.9)
Siebel (40.7)
University Managed (0)
University Students (25.5)
Wells Fargo EAFE (0)
Wells Fargo S&P 500 (0)
S&P 500 (0)



	Market Value	Total Return%
	2.6	7.2
	1.5	(18.6)
	2.8	1.1
	1.2	18.4
	4.8	10.2
	2.3	8.7
	0.6	4.2
	1.0	(16.2)
	1.9	(3.8)
	3.0	8.2
		11.2

Fixed Income

Boatman's Trust (0.1)
Cambridge (100.0)
Duff & Phelps (0.8)
WR Lazard (0.2)
STW Fixed Income (0.8)
University GNMA (4.6)
University Managed (0)
Shearson Govt/Corp (0)



	Market Value	Total Return%
	7.6	0.7
	8.1	1.3
	8.2	0.0
	6.1	(3.4)
	8.7	0.1
	9.6	1.9
	14.1	(17.8)
	9.1	0.4
		9.5

() Percent Cash 4/20/90

- [1] Reflects return from initial allocation August 8, 1988 only.
- [2] Reflects return from initial allocation February 20, 1990 only.
- [3] Reflects return from initial allocation October 2, 1989 only.
- [4] Reflects return from initial allocation October 6, 1989 only.

	June 30, 1989 to April 20, 1990	March 18, 1990 to April 20, 1990
Change in Total Valuation		
Market Value	\$287,298,389	\$304,270,216
Principal Additions	18,525,801	493,519
Principal Withdrawals	(294,472)	(3,472)
Change in Market Value	(5,587,001)	(4,817,546)
Current Market Value	<u>\$299,942,717</u>	<u>\$299,942,717</u>

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

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>
------------------	--------------------------------	----------------

No maturities during the period.

REAL ESTATE

Acquisitions & Sales

Description

Cost or
Appraised Value

No activity during the period.

THE OHIO STATE UNIVERSITY
Equity Acquisitions

Purchases and Gifts During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Annual Dividend</u>
2,800	Boise Cascade Corp.	Chicago	38.7500	\$108,868.00	\$4,256.00
4,400	Citicorp	Chicago	23.1250	102,014.00	7,128.00
3,000	Community Psychiatric Centers	Chicago	22.0000	66,195.00	1,080.00
1,200	Computer Sciences Corp.	Chicago	40.5000	48,678.00	0.00
1,000	CoreStates Financial Corp.	Chicago	38.8750	38,875.00	1,920.00
900	E-Systems, Inc.	Chicago	27.3500	24,673.50	504.00
3,100	Fleet/Norstar Financial Group, Inc.	Chicago	21.5000	66,851.50	4,340.00
6,200	MNC Financial, Inc.	Chicago	18.7500	116,822.00	7,192.00
800	Safety-Kleen Corp.	Chicago	31.0000	18,839.00	216.00
2,700	SunTrust Banks, Inc.	Chicago	21.3750	57,888.00	2,268.00
2,300	Torchmark Corp.	Chicago	44.5000	102,488.00	3,220.00
2,500	Westinghouse Electric Corp.	Chicago	75.1024	187,918.50	6,000.00
4,200	Gap, Inc.	Nicholas-Applegate	63.7500	268,002.00	3,192.00
8,400	Lowe's Companies, Inc.	Nicholas-Applegate	33.0000	277,704.00	4,118.00
9,200	Primerica Corp.	Nicholas-Applegate	30.2477	278,830.84	2,944.00
12,500	Storage Technology Corp.	Nicholas-Applegate	19.5811	244,838.90	0.00
5,100	Sun Microsystems, Inc.	Nicholas-Applegate	22.7500	116,025.00	0.00
25,000	Beverly Enterprises, Inc.	Siebel	4.2500	106,250.00	0.00
1,400	American Express Co.*	University Managed	28.0000	39,200.00	1,288.00
2,164	Banc One Corp.*	University Managed	28.1490	60,914.50	2,250.56
52	Limited, Inc.*	University Managed	39.8125	2,070.25	18.64
50	Worthington Industries, Inc.*	University Managed	20.6250	1,031.25	28.00
1,000	Great Lakes Chemical Corp.	University Students	53.0000	53,085.00	400.00
				<u>\$2,387,462.24</u>	<u>\$52,359.20</u>

*Gift

THE OHIO STATE UNIVERSITY
Equity Sales

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Total Sale</u>	<u>Gain (Loss)</u>
250	Aerovox, Inc.	Chicago	3.3750	\$843.75	\$103.75
5,000	Anheuser-Busch Companies, Inc.	Chicago	37.6967	188,177.21	33,477.21
1,700	Crompton & Knowles Corp.	Chicago	31.6250	53,858.70	20,838.41
900	FlightSafety International, Inc.	Chicago	49.8250	44,807.01	22,386.01
1,100	Great Lakes Chemical Corp.	Chicago	52.8750	58,094.56	26,840.06
3,500	Rohm & Haas Co.	Chicago	30.5767	106,787.38	(10,420.62)
13,400	United Stationers, Inc.	Chicago	13.6625	180,900.00	(64,120.20)
400	Wels Markets, Inc.	Chicago	30.0000	11,973.60	497.60
8,800	Worthington Industries, Inc.	Chicago	21.5000	189,200.00	(1,062.50)
2,200	Banc One Corp.	Nicholas-Applegate	27.0000	59,266.02	(12,132.02)
9,200	Baxter International, Inc.	Nicholas-Applegate	21.5787	197,965.15	(21,871.77)
13,000	Chemical Waste Management, Inc.	Nicholas-Applegate	19.2283	249,191.94	(46,385.06)
1,900	Novell, Inc.	Nicholas-Applegate	38.4358	73,028.05	10,358.66
12,100	Seagate Technology	Nicholas-Applegate	16.4450	199,984.17	35,867.18
7,000	Unifed Telecommunications, Inc.	Nicholas-Applegate	40.3303	281,882.88	40,782.58
900	Aerovox, Inc.	Siebel	3.6250	3,282.50	598.50
1,400	American Express Co.*	University Managed	28.8750	40,391.86	1,191.66
110	Ford Motor Co.*	University Managed	48.3750	5,304.57	203.94
5,000	Worthington Industries, Inc.	University Students	21.8743	109,071.35	5,848.35
				<u>\$2,052,690.29</u>	<u>\$42,597.73</u>

*Gift

THE OHIO STATE UNIVERSITY
Fixed Income Acquisitions

Purchases and Gifts During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Price</u>	<u>Investment</u>
1,750,000	U.S. Treasury Bond 7.250% 05-15-18	Boatmen's	8.4181	8.5893	88.1241	\$1,507,171.88
8,700,000	U.S. Treasury Bond 0.000% 11-15-18	Boatmen's	0.0000	8.5123	10.9080	948,822.00
3,860,000	U.S. Treasury Bond 0.000% 08-15-18	Boatmen's	0.0000	8.3085	9.9450	383,987.00
900,000	U.S. Treasury Bond 8.125% 08-15-19	Cambridge	8.4402	8.4703	96.2656	866,390.63
1,000,000	Household Finance Corp. 9.550% 04-01-00	STW	8.6415	9.6989	99.0510	990,510.00
1,000,000	U.S. Treasury Bond 8.125% 08-15-19	STW	8.7248	8.7795	93.1250	931,250.00
						\$5,608,131.51

THE OHIO STATE UNIVERSITY
Fixed Income Sales

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Price</u>	<u>Total Sale</u>	<u>Gain (Loss)</u>
1,000,000	Service Corporation International 9.000% 08-01-19	Boatmen's	88.8510	\$898,510.00	(\$101,490.00)
3,710,000	U.S. Treasury Bond 0.000% 02-15-19	Boatmen's	9.8170	364,210.70	9,423.40
1,000,000	Community Program Loan Trust 4.500% 10-01-18	Boatmen's	58.6562	586,562.50	8,078.88
1,000,000	International Business Machines 8.375% 11-01-19	Boatmen's	90.7800	907,800.00	(82,200.00)
900,000	U.S. Treasury Bond 8.125% 08-15-19	Cambridge	94.9375	854,437.50	(11,953.13)
517,373	Ford Credit 1989A Grantor Trust 8.700% 10-17-94	STW	98.7656	510,986.89	(4,284.50)
400,000	U.S. Treasury Bond 9.250% 02-15-16	STW	108.6719	426,687.50	(13,712.72)
1,000,000	New York State Dorm. Series B 7.250% 05-15-15	STW	93.7200	<u>937,200.00</u>	<u>(20,300.00)</u>
				<u>\$5,486,395.09</u>	<u>(\$216,438.07)</u>

THE OHIO STATE UNIVERSITY
Real Estate Investments

	<u>Yield</u>	<u>Year</u> <u>Acquired</u>	<u>Carrying</u> <u>Value</u>	<u>Appraised</u> <u>Value</u>	<u>Date</u> <u>Appraised</u>
Buildings and 3.9 acres at Boardwalk Street and Mediterranean Avenue	9.38%	1990	\$4,275,000	\$4,275,000	10/89
48.984 acres of land in Delaware County	0.55%	1971	100,793	641,000	06/89
Hangar at Don Scott Field (Loan)	0.00%	1973	25,333 (1)	25,333	N/A
Hangar addition at Don Scott Field (Loan)	10.00%	1978	68,689 (1)	68,689	N/A
17.92 acres of land on Elterman Road	0.00%	1978	25,152	725,000	05/88
51 acres of land, 2809 West Granville Road	0.00%	1982	160,265	2,898,000	06/89
48.52 acres of land, 3026 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	310,638	6,853,000	08/89
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%	1988	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%	1988	95,000	95,000	01/86
94.5 acres of land on Harriaburg 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	1,320,893	2,500,000	06/89
Building and 6.328 acres at 1991 Kenny Road	8.81%	1968	170,000	686,000	06/89
Building and 3.295 acres at 930 Kinnear Road	7.97%	1962	435,204	1,650,000	06/89
Building and 5.56 acres at 1100 Kinnear Road	3.74%	1964	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	6,480,000	02/85
			<u>\$15,689,963</u>	<u>\$43,969,022</u>	

(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
 @ March 31, 1990

	<u>*Campaign Expectancies</u>	<u>Current Year Campaign Receipts (Jul 89-Mar 90)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1989</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$74,645,800	\$7,757,527	\$54,101,474	\$136,504,801	\$122,500,000	112
Friends	46,172,443	7,396,236	35,289,619	88,858,298	70,000,000	127
**Corporations	13,143,402	11,395,683	143,559,753	168,098,838	122,500,000	138
Foundations	<u>2,726,125</u>	<u>3,001,908</u>	<u>25,891,857</u>	<u>31,619,890</u>	<u>35,000,000</u>	91
Totals	\$136,687,770	\$29,551,354	\$258,842,703	\$425,081,827	\$350,000,000	122

*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

Dr. Edward H. Jennings

Page 2

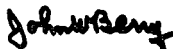
May 3, 1990

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

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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)

THE OHIO STATE UNIVERSITY
 1989-90 CURRENT FUNDS BUDGET
 3RD QUARTER REPORT

Summary of Proposed Resources
 (In Millions of Dollars)

	Budgeted 1989-90	Estimated 1989-90	\$ Change	% Change
Central Campus				
Unrestricted General Funds	\$452.39	\$453.79	\$1.40	.3%
Earnings Operations	346.34	344.14	-2.20	-.6%
Restricted Funds	220.07	220.17	.10	.0%
Total Central Campus	\$1,018.80	\$1,018.10	\$-.70	-.1%
Regional Campuses	27.65	29.25	1.60	5.8%
OARDC	33.84	33.84	.00	.0%
Grand Totals	\$1,080.29	\$1,081.19	\$.90	.1%

THE OHIO STATE UNIVERSITY
 1989-90 CURRENT FUNDS BUDGET
 3RD QUARTER REPORT

Summary of Proposed Uses
 (In Millions of Dollars)

	Budgeted 1989-90	Estimated 1989-90	\$ Change	% Change
Central Campus				
Unrestricted General Funds	\$452.39	\$453.79	\$1.40	.3%
Earnings Operations	346.23	343.80	-2.43	-.7%
Restricted Funds	220.07	220.17	.10	.0%
Total Central Campus	\$1,018.69	\$1,017.76	\$-.93	-.1%
Regional Campuses	27.42	27.73	.31	1.1%
OARDC	33.84	33.84	.00	.0%
Grand Totals	\$1,079.95	\$1,079.33	\$-.62	-.1%

THE OHIO STATE UNIVERSITY
 1989-90 CURRENT FUNDS BUDGET
 3RD QUARTER REPORT

All Funds Resources Summary
 (In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1989-90	Budgeted 1989-90
Central Campus					
State Appropriations	\$263.58	\$.00	\$39.17	\$302.75	\$304.64
Student Fees	156.57	5.00	.00	161.57	158.69
Other Resources					
Federal Grants and Contracts	17.28	.00	85.60	102.88	102.88
Ohio Grants and Contracts	.38	.00	13.00	13.38	15.53
Local Grants and Contracts	.74	.00	13.10	13.84	13.84
Private Gifts and Grants	4.05	.00	60.50	64.55	61.86
Endowment Income	1.55	.00	8.80	10.35	10.35
Department and University Services	.37	28.37	.00	28.74	28.77
Auxiliary Sales & Charges	.02	84.52	.00	84.54	86.25
Hospital Sales & Services	.00	222.45	.00	222.45	222.45
Other Sources	9.25	3.80	.00	13.05	13.54
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					
State Appropriations	13.41	.00	.03	13.44	13.30
Student Fees	10.82	.13	.00	10.95	9.77
Other Resources	.65	1.69	2.52	4.86	4.58
Total Regional Campuses	\$24.88	\$1.82	\$2.55	\$29.25	\$27.65
OARDC					
State Appropriations	.00	.00	21.70	21.70	21.70
Federal	.00	.00	7.60	7.60	7.60
All Other	.00	1.81	2.73	4.54	4.54
Total OARDC	\$.00	\$1.81	\$32.03	\$33.84	\$33.84
Total University					
State Appropriations	276.99	.00	60.90	337.89	339.64
Student Fees	167.39	5.13	.00	172.52	168.46
Other Resources	34.29	342.64	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)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1989-90	Budgeted 1989-90
Central Campus					
Educational & General	\$452.70	\$33.37	\$204.28	\$690.35	\$689.15
Auxiliary Enterprises					
Residence & Dining Halls	.00	37.11	.00	37.11	38.65
Intercollegiate Athletics	.00	17.93	4.00	21.93	21.93
Other Auxiliaries	1.09	30.34	.00	31.43	32.02
Total Auxiliaries	\$1.09	\$85.38	\$4.00	\$90.47	\$92.60
University Hospitals	.00	225.05	11.89	236.94	236.94
Total Central Campus	\$453.79	\$343.80	\$220.17	\$1,017.76	\$1,018.69
Regional Campuses					
Agricultural Technical Institute	5.30	.84	.80	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

THE OHIO STATE UNIVERSITY
 1989-90 CURRENT FUNDS BUDGET
 3RD QUARTER REPORT

Distribution of 1989-90 Resources
 Central Campus, Regional Campuses & OARDC
 (In Millions of Dollars)

	All Funds	Percent of Total	Unrestr. General(4)	Percent of Total
State Appropriations	\$337.89	31.3%	\$276.99	57.9%
Federal Grants & Contracts	110.48	10.2%	17.28	3.6%
Other Government Sources	27.22	2.5%	1.12	.2%
Student Fees				
Instructional (1)	167.39	15.5%	167.39	35.0%
Non-Credit Instruction	5.13	.5%	.00	.0%
Hospitals Sales / Services	222.45	20.6%	.00	.0%
Other Sales / Services (2)	113.28	10.5%	.39	.1%
Private Gifts & Grants	64.55	6.0%	4.05	.8%
Endowment	10.35	1.0%	1.55	.3%
Other Sources (3)	22.45	2.1%	9.90	2.1%
Total	\$1,081.19	100.0%	\$478.67	100.0%

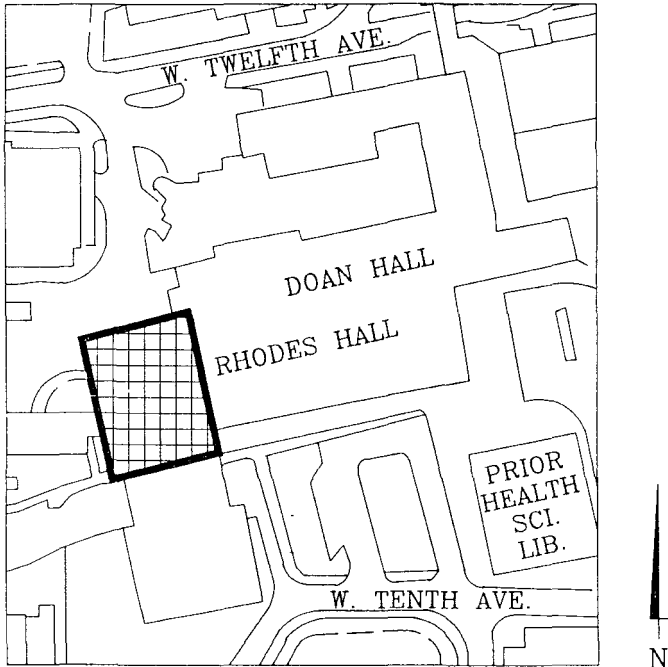
- (1) Includes instructional, general, non-resident, and misc. other fees.
- (2) Includes departmental sales and services and auxiliary income such as residence and dining hall fees and parking fees.
- (3) Includes temporary investments, prior years' earnings, rental income, etc.
- (4) Excludes all earnings 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)

May 3, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

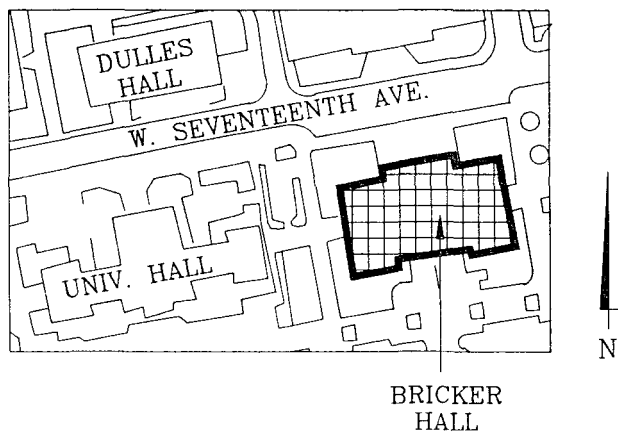
BRICKER HALL MASONRY REPAIRS

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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>H. K. Phillips *</u>	<u>Trisco</u>
Base Bid	\$61,000.00	\$52,900.00	\$56,788.00
Alt. G-1 (N. Stone Steps)	15,000.00	4,500.00	8,443.00
Total General Contract	\$76,000.00	\$57,400.00	\$65,231.00

BRICKER HALL MASONRY IMPROVEMENTS



OFFICE OF BUSINESS AND ADMINISTRATION
MAY 3, 1990

May 3, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

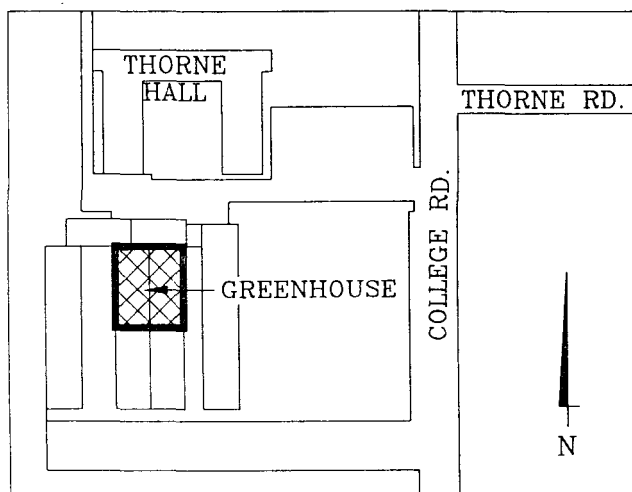
OARDC ENTOMOLOGY GREENHOUSE

Tabulation of Bids

Bids received by The Ohio State University on March 14, 1990. Bids opened by Tamara Bell and tabulated by Ray Hancsik. Awards indicated with an "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Freeman *</u>	<u>Finnegan</u>	
Base Bid	\$142,230.00	\$131,900.00	\$143,900.00	
Alt. G-1 (Concrete Floor)	6,700.00	7,900.00	14,800.00	
Total General Contract	\$148,930.00	\$139,800.00	\$158,700.00	
<u>Mechanical Contract</u>	<u>Estimate</u>	<u>Guenther *</u>		
Base Bid	\$10,870.00	\$11,981.00		
Alt. P-1 (Floor Drains)	2,500.00	910.00		
Alternates not taken:				
Alt. P-2 (Fin Tube Radiant Heating)	6,500.00	6,586.00		
<u>Electric Contract</u>	<u>Estimate</u>	<u>Abbott *</u>	<u>Buchman</u>	<u>Hooster</u>
Base Bid	\$12,200.00	\$10,200.00	\$11,800.00	\$12,125.00

OARDC ENTOMOLOGY GREENHOUSE



OFFICE OF BUSINESS AND ADMINISTRATION
MAY 3, 1990

May 3, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

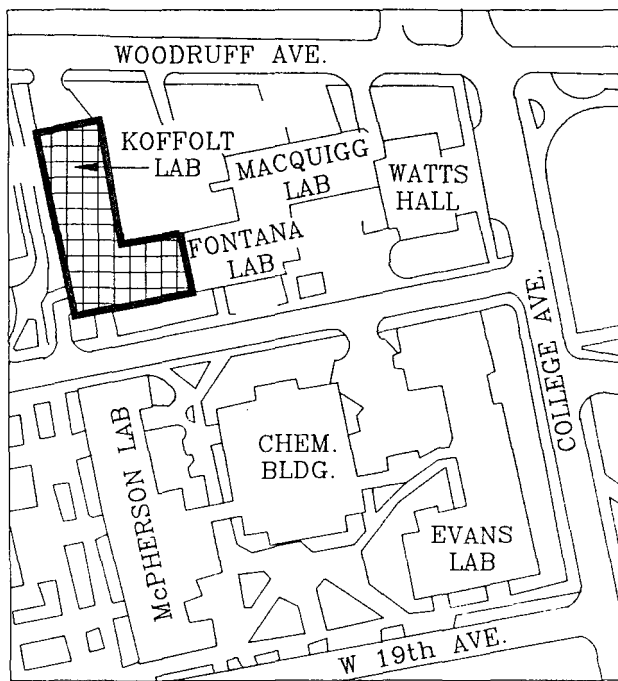
KOFFOLT LABORATORY MASONRY IMPROVEMENTS

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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Miles *</u>	<u>McDaniels</u>
Base Bid	\$100,000.00	\$67,110.00	\$78,793.00
Alt. G-1 (Slab Jacking)	9,000.00	4,600.00	2,088.00
Alt. G-2 (Tuck Pointing Screen Walls)	18,000.00	4,200.00	17,842.80
Alt. G-3 (Entrance Replacement)	20,000.00	18,700.00	19,402.80
Total General Contract	\$147,000.00	\$94,610.00	\$118,126.60

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

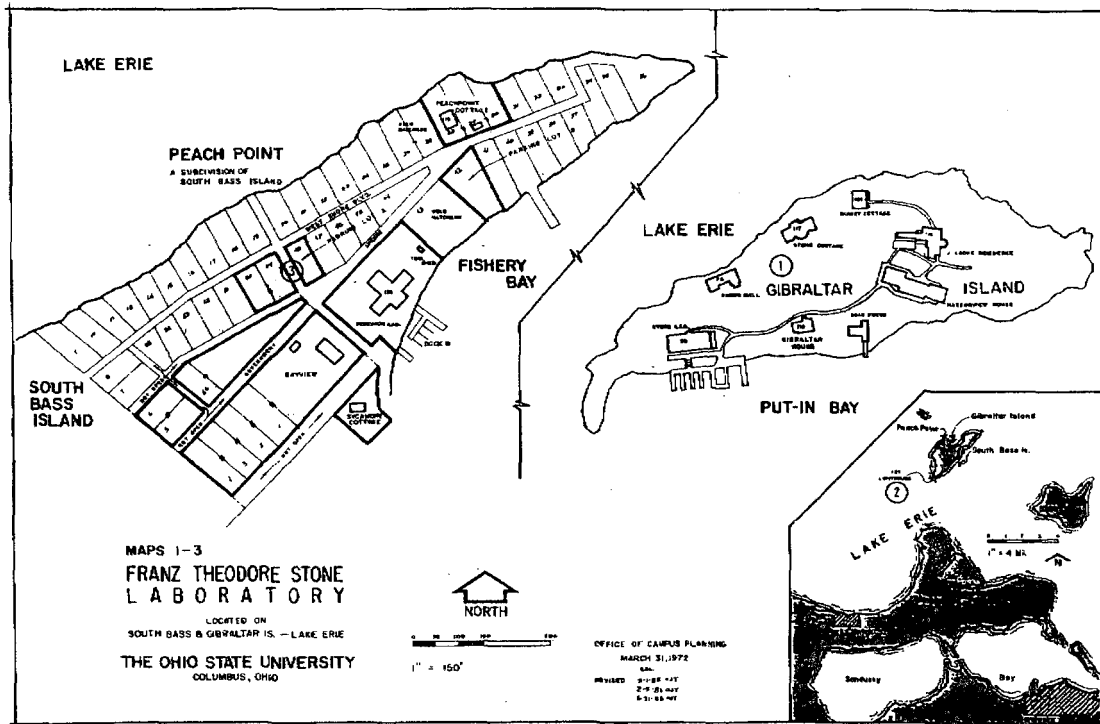
SEAGRANT SCROOL PROJECT - ROOF REPLACEMENT

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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Nordmann *</u>	<u>Spieker</u>
Base Bid	\$73,000.00	\$76,666.00	\$77,400.00

SEA GRANT
SCHOOL PROJECT
ROOF REPLACEMENT



OFFICE OF BUSINESS AND ADMINISTRATION

May 3, 1990

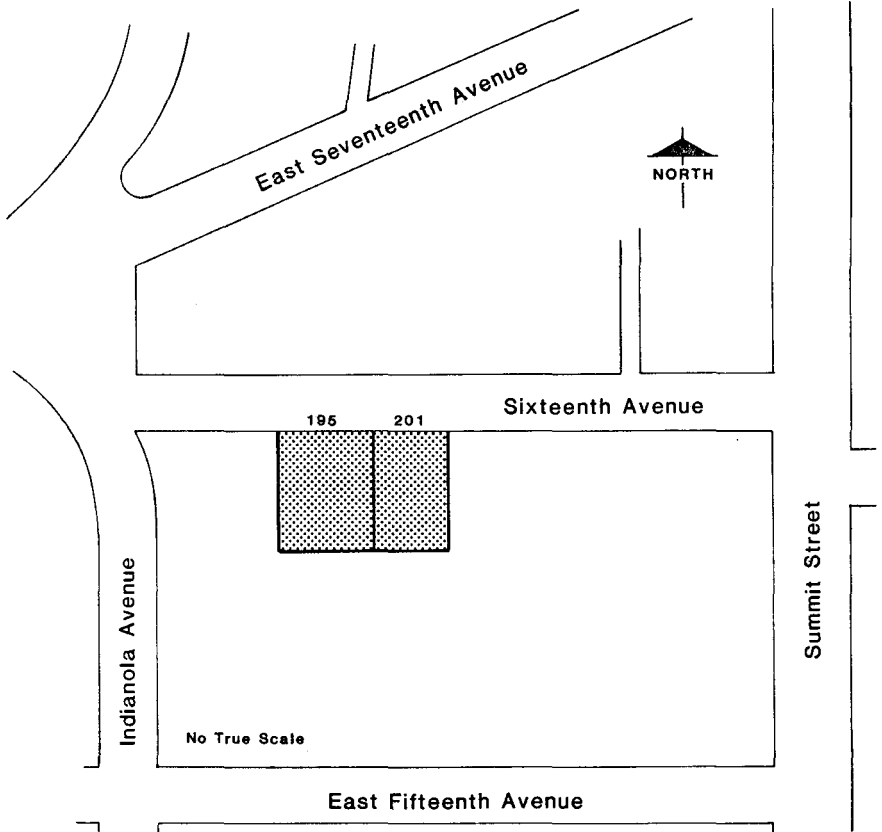
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APPENDIX LXX

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



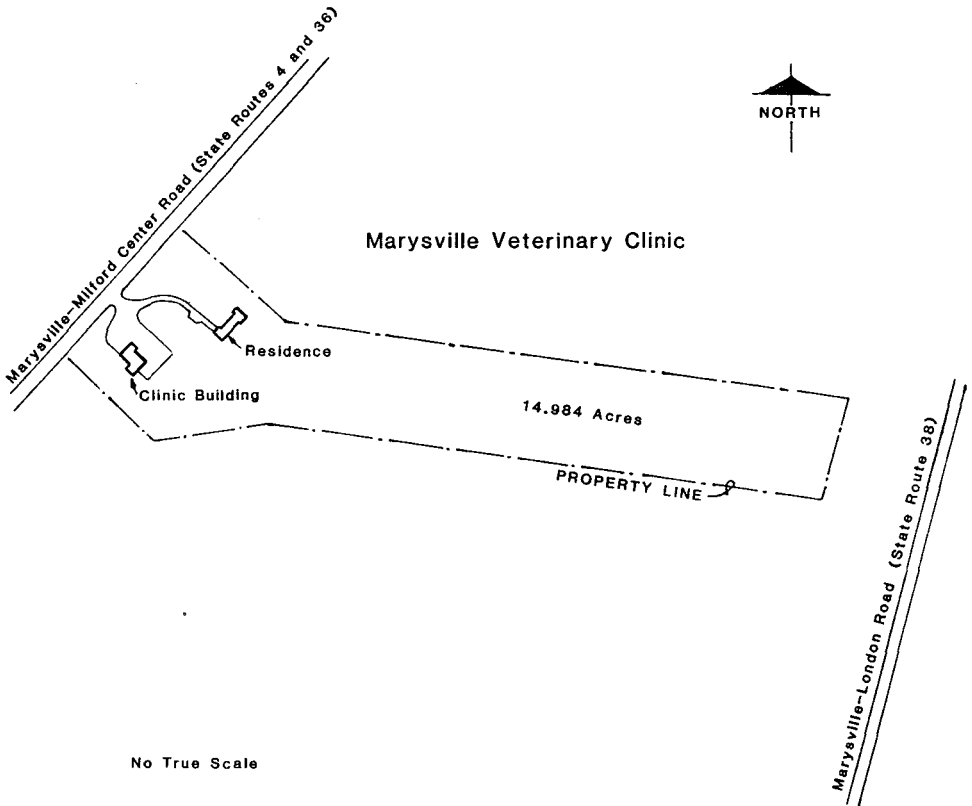
Office of Business and Administration
May 3, 1990

APPENDIX LXXI

MARYSVILLE VETERINARY CLINIC
MARYSVILLE, OHIO

Adopted by the Board of Trustees May 3, 1990
(See page 1036)

Proposed Sale of Real Property
Marysville Veterinary Clinic
Marysville, Ohio



Office of Business and Administration
May 3, 1990

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APPENDIX LXXII
Degrees Conferred at
THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION
June 8, 1990

Commencement Speaker

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, persuading 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.

Recipients of 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 for 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 Merry-makers 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. Koenigsnecht

Doctor of Musical Arts

Glen Roger Davis, Columbus; B.M. (Berklee College of Music); M.Mus.; *Music*
Dr. Ann K. Blombach, 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. Andrew Wojcicki

R. Miebi Akah, Ondo, Nigeria; B.Sc., M.S. (Mankato State University); M.A.; *Health, Physical Education and Recreation*
Dr. Philip Heit

Ghazi Daiffallah Al-Shetaiwi, 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. Lois A. Rosow

Bruce Warren Aument, Columbus; B.A. (Capital University); M.A.; *Anthropology*
Dr. William S. Dancy

Mathew Thomas Baker, Vernon, TX; B.S., M.Ed. (Texas Technical University); *Agricultural Education*
Dr. J. David McCracken

Karen Sue Basinger, Columbus Grove; B.S.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. Gail 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. Fehcheimer

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. Wayson

James Martin Chapman, Santo, TX; B.S. (Tarleton State University); *Pharmacy*
Dr. Robert W. Curley

Chengping Chen, Hubei, P.R.C.; B.S. (Huazhong Agricultural University); M.S.; *Entomology*
Dr. David L. Dentinger

Hung-Hsu Fred Chen, Taiwan, R.O.C.; B.S. (National Tsing-Hua University); M.S.; *Mechanical Engineering*
Dr. Dennis A. Guenther

Kiran Babu Chilakamarr, Vijayawada, India; B.Stat. (Indian Statistical Institute); M.S., Ph.D.; *Mathematics*
Dr. Neil Robertson

Yuei-Chou, Kaohsiung, Taiwan, R.O.C.; B.A. (National Chung Hsing University); M.A. (National Cheng 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. Gritzmacher

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Dr. Ellen Hock

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Dr. M. Klapper

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Dr. Edward J. Kane

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Dr. Bernard J. La Londe

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Dr. William D. Dowling

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Dr. Phillip L. Smith

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Dr. Sara Garnes

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Dr. Stephen J. Summerhill

Elizabeth Ann Fitzpatrick, Ebsenburg, PA; B.S. (Indiana University of Pennsylvania); *Medical Microbiology and Immunology*
Dr. Raymond W. Lang

Stavros A. Frangoulidis, Brooklyn, NY; B.A. (Aristotelean University); M.A.; *Classics*
Dr. Carl Schlam

Donald Edward Frazier, Jr., Columbus; B.S., M.S.; *Veterinary Pathobiology*
Dr. Melinda J. Tarr

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Dr. Philip J. Smith

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Dr. Richard N. Christensen

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Dr. Donald H. Dean

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Dr. Floyd L. Schanbacher

Amy Wright Goodwin, Columbus; B.A. (Allegheny College); M.A. (Carnegie-Mellon University); *English*
Dr. Lisa J. Kiser

Lyubomira Parpulova Gribble, Columbus; M.A. (Sofia University); K.F.N. (Bulgarian Academy of Sciences); *Slavic and East European Languages and Literatures*
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./Cer.E., M.S.; *Ceramic Engineering*
Dr. Charles H. Drummond
- Abigail Harding**, Worthington; B.S., M.A.T. (Northwestern University); *Education*
Dr. Stanley L. Helgeson
- Kevin Michael Harvey**, Dallas, TX; B.A. (University of North Texas); *Medical Microbiology and Immunology*
Dr. Frank A. Kapral
- Mahbulul Hassan**, Dhaka, Bangladesh; B.S., M.S. (University of Dhaka); M.S. (University of Oklahoma); *Nuclear Engineering*
Dr. Tunc Aldemir
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Dr. Philip M. Clark
- Roseanne Louise Hoefel**, Granville; B.A., B.A., M.A. (University of Akron); *English*
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Dr. Herman R. Weed
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Dr. William D. Todor
- David Joseph Kalamas**, Charleroi, PA; B.A., M.A.; *Education*
Dr. James E. Sage
- DuEwa Akinwale Kamara**, Prince George, VA; B.S. (Virginia Commonwealth University); M.A. (Virginia State University); M.A.; *Economics*
Dr. Donald R. Haurin
- Shang-Juh Kao**, Yun Lin, Taiwan, R.O.C.; B.S. (National Cheng-chi University); M.S., M.S.; *Computer and Information Science*
Dr. Douglas S. Kerr
- Kristen Margaret Kask**, Powell; B.S. (Wagner College); M.Ed. (Bridgewater State College); *Education*
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Dr. Laszlo Adler

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Dr. Ming-Daw Tsai

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Dr. Ellen Hock

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Dr. John C. Huntington

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Dr. Donald Cegala, Dr. Laura Stafford

Kim Franklin Shirey, Columbus; B.Mus. (College of Wooster); M.Mus. (University of Oklahoma); *Music*
Dr. A. Peter Costanza

Mohammad Seyed Siahpush, Tehran, Iran; B.S. (Utah State University); M.S. (University of Utah); *Sociology*
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Dr. Loren V. Geistfeld

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Dr. Stephen J. Summerhill

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Dr. Randall D. Knight

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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

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Dr. Bernard Rosen

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Dr. Ronald Glaser

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Dr. Ralph Stephens

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Dr. Michael L. Benedict

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Dr. Leila J. Rupp

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Dr. Ralf G. Rahwan

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Dr. Richard L. McCreery

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Dr. Robert H. Wagoner

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Dr. R. William Liddle

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Dr. James W. Altschuld

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Dr. Steven 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 College); *Statistics*

Yingying Liao, Shin-Lin, Taipei, Taiwan, R.O.C.; B.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*

Chiou-Yeong Wu, Taichung, Taiwan, R.O.C.; Diploma (National Taipei Institute of Technology); B.A. (Iowa State University); *Architecture*

Master of Arts

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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 Lee Allen, Warren; B.S.Ed.; *Education*

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Laura Ann Kuehnert-Gaines, Columbus; B.S. (Michigan State University); *Social Work*

Lisa Kaye LaDu, Columbus; B.A. (Heidelberg College); *Social Work*

Wilma Eileen LaFayette, Springfield; B.S.W. (Wright State University); *Social Work*

Nancy Kay LaFever, Mt. Vernon; B.A.; *Social Work*

Jane Frances Laubacher, Canton; B.A. (Kent State University); *Social Work*

Sang Yong Lee, Columbus; B.A. (Seoul National University); *Social Work*

Judith L. Lefkowitz, Columbus; B.S.W. (Capital University); *Social Work*

Beth Anne Lister, Worthington; B.A.; *Social Work*

Elizabeth Macauley Lukens Mikes, Columbus; B.A. (Kenyon College); *Social Work*

Marjorie Lynn Mapes, Pickerington; B.S.Soc.Work; *Social Work*

M. Lucia May, Columbus; B.S.Soc.Work; *Social Work*

Laura Anne Mayer, Chesterland; B.S.W. (Capital University); *Social Work*

Amy Lee McDaniel, Columbus; B.S.Soc.Work; *Social Work*

Elizabeth Carolyn McGhee, Columbus; B.S. (University of Kentucky); *Social Work*

Kristene Deeann Merritt, North Manchester, IN; B.S. (Manchester College); *Social Work*

Mark C. Miller, Cincinnati; B.S.W. (University of Cincinnati); *Social Work*

Mary Elizabeth Moore, Lakewood; B.S.S.W. (Bowling Green State University); *Social Work*

Ellen Butler Moseley, Jr., Columbus; B.A.; *Social Work*

Desiree Elaine Mosley, Indianapolis, IN; B.S.W. (Oakwood College); *Social Work*

Mary Diane Neltner, Fort Thomas, KY; B.S.W. (Eastern Kentucky University); *Social Work*

Gregory Wayne Norman, Plain City; B.A. (Georgetown College); *Social Work*

Thomas Joseph Odell, Columbus; B.S.Bus.Adm. (Bowling Green State University); *Social Work*

Susan Leigh Ogden, Columbus; B.S.W. (Capital University); *Social Work*

Kimberly Ann Pahys, Columbus; B.S.Soc.Work; *Social Work*

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

Mindy K. Ramsey, Canton; B.A.S.W.
(Malone College); *Social Work*

Barbara Louise Rathbun, Columbus;
B.S.S.W. (Ashland University); *Social Work*

Pamela Lynn Reefer, 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 Schomaeker, Van Wert;
B.S. (Defiance College); *Social Work*

Michael Edward Sexton, Cincinnati;
B.S.S.W.; *Social Work*

Hong-Kwon Shin, Gyoung-Gi, 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, Chandlersville;
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

Jehoon 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

College of the Arts

Dean: Donald Harris

Bachelor of Arts

Andréa Lee Curry, Weston
Frank Douglas Delbenzio, Steubenville
Ann Kerr Henderson, Mentor
Mary Beth Holloway, Whitehouse
Gregory Marvin Hotchkiss, Troy
Robert Gerard Hunt, Lima
Jacqueline Louise Koral, Independence
Gregory Edward Lonsway, Mentor
Lisa S. Mariano, Columbus
Timothy Brian McFarland, Martins Ferry
Wendy Dawn Miller, Mansfield
Dione Elizabeth Oosthuizen, Columbus
Craig Michael Phipps, Washington, DC
Darin Mitchell Preston, Miamisburg
Glen Victor Schauer, Wickliffe
Marjorie Sue Schwartz, Mentor
Mercedes Louise Shelt, Madison
Stephen Leo Spinner, Parma Heights
Chris Allen Tenney, Geneva
Bruce Robert Walrath, Cadiz
Ann Marie Webster, Chillicothe
Jon Lawrence Zidel, Bexley

Bachelor of Fine Arts

Joseph Michael Albright, Owosso, MI
Julia Ann Almendinger, Marion
Joelle Ré Arp, Amherst
Mark Alan Beers, Ashville
C. Todd Brown, Columbus
Kristi Noel Cooke, Marion
Michael William Dickas, Westerville
Michele Eileen Dowling, Gahanna
Curtis Morrison Goldstein, Columbus
Rebecca Eve Gould, Columbus
Susan Elaine Hamilton, Columbus
Thomas George Harned, New Haven, CT
David Robert Higgins, Ashtabula
Kerry D. Irvin, Columbus
Michael Karp, Reading

Dianna Danielle Karshner, Grove City
Terri Ane Labella, Columbus
Jeffrey Michael Lepore, Youngstown
Teresa Lynn Loyd, Columbus
Mika Nagumo, Niigata, Japan
Tracy L. Rhoades, Columbus
James Reginald Rodman, Forest
Daniel Nathan Root, Stow
Erin Marie Rutnik, Albany, NY
Perry David Ryno, Carmichael, CA
Timothy Mark Sanders, Columbus
Evelyn Gwendolyn Adams Scott, Van Wert
Rhonda Myler Shappert, Seneca, SD
Darlene Anne Sorensen, Columbus
Jennifer Lynn Stang, North Royalton
Kay Louise Thomas, Van Wert
Scott Lee Volzer, Columbus
Sheila A. Willman, St. Stephens
Brinda L. Woods, Strongsville

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, R.O.C.
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 Education¹

Shari L. Savage, Upper Arlington
Donna Marie Wieber, Sandusky

Bachelor of Art Education²

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
Jan Kristine Haymond, Shelby
Laura Leigh MacCarthy, Newark
Doreen Marie Maurisso, Reynoldsburg
Stephanie Caryl Shift, Toledo
Lisa Ann Weishoff, Worthington
Julia Anne Woodrow, Columbus

Bachelor of Music Education²

Ellen Myers Bargar, Holland
Jody Ann Berry, Wilmington
Melissa Swope Betts, North Baltimore
Lori Ellen Blanchong, Lima

¹Offered by the College of the Arts

²Offered by the College of the Arts and the College of Education

Bruce Arthur Carlson, Brecksville
Elizabeth Anne Crawford, Lima
Georgia Louise Dixon, Gahanna
Joann Drummond, Williamsburg
Mark Ellsworth Kreemer, Grove City
Sue Ellen Mattison, Delaware
Kristin Louise Oberdier, Lima
Thinh Tu Phung, Westerville
John Christopher Riegel, Oxford
Michele Lanette Smith, Grove City
Rachel Ann Spehar, Painesville

Bachelor of Science in Audio Recording

Trevin Gerald Joyner, Columbus
Jeffrey Scott Ward, Columbus

Bachelor of Science in Industrial Design

Donna Lynn Aikins, Dublin
Scott Michael Anderson, Chesterland
Gail Lynn Baker, Orient
Michael Andrew Ballash, Seven Hills
Terry M. Birchler, Louisville, KY
Gregory Steven Bonnell-Kangas, Columbus
Angela Maria Canini, Columbus
David Thomas Dowling, Worthington
Jon Raymond Fehrman, Westerville
Victor Anthony Fielding, Columbus
Lora Ann Flesher, Marietta
William Stephen Harlan, Steubenville
Geoffrey E. Horn, Columbus
Christopher Francis Kanoski, Columbus
John Lee Kerns, Jr., Hilliard
Amy Sue Laituri, Conneaut
Anne Margaret Letherby, Grand Rapids, MI
Kara Marie Lyon, Marengo
Edward Joseph Macecko, Jr., Maple Heights
Scott Andrew Moehring, Grosse Pointe, MI
Mary Irene Mosser, Uniontown
Jamie Lynn Mowrey, Wooster
James Gerald Nelson, Cumberland, MN
David Seares Pitzer, Columbus
Phillip Donald Prestigomo, Maple Heights
Gregory Stephen Schlegel, Columbus
Eric Gunter Schmid, Columbus
Daniel George Shust, Mentor
Robert Edward Spica, Worthington
Emily Catherine Spiegler, Reynoldsburg
Joan Frances Stallsmith, Cincinnati
Robert William Wertz, Toledo
Mark Yanosko, Cleveland

College of Biological Sciences

Dean: Gary L. Floyd

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, Cincinnati
Brian Michael Burkhardt, Belpre
Brian Donald Burrell, Cincinnati
Betsy Ann Carleton, Delaware
Bruce Arthur Carlson, Brecksville
Carol Joanne Carson, Akron
Anthony Olin Clark, North Canton
Jeffrey Alan Clem, Newark
Kimberly Sue Crihfield, Mayfield Heights
Bradley Hall Crombie, Geneva
Robert M. Curran, Concord Township
Renée Dawn Dellarose, Concord
Heidi Lee Dianiska, Orrville
Michael Neil Elleman, Bay Village
Lisa Marie Esterle, Wooster
Jennifer Marie Feldmann, West Chester
Stephen Joseph Ferenczy, Solon
Diane Lynn Fletcher, Massillon
Douglas Robert Forrest, Columbus
Stephanie Marie Garrison, Cardington
Anne Elizabeth Gasior, Findlay
Anna Marie Gerdau, Shadyside
Holly Ann Gerzina, Canton
Carla Christine Gierke, Adamsville
Joseph Michael Ginty, Sandusky
Michael George Gorham, Marion
Therese Marie Grimm, Columbus
Michael Wayne Grove, Cambridge
David Allen Hammond, Medina
Debra Lynn Hardman, Warren
Kathleen Kay Harris, Marion
Jill Marie Haunhorst, Delphos
James Korey Hill, Cincinnati
Teresa Ann Hoffman, Waverly
Michael James Howe, Eastlake
Lori Slade Jackson, Columbus
Jennifer Jeanne Crawford Jakubowski,
Brilliant
David Lawrence Kimball, Barberton
Amy Michelle Kryder, Napoleon
Dawn Christine Lahman,
New Philadelphia
Robert Allen Large, Thornville
Daniel Edward Long, Columbus
Deborah Jean Long, Marysville
Maureen Longstreet, Strongsville
Manuel Lugo, Jr., Stryker
Patricia J. Lujan, Fairlawn
Adel W. Mansour, Columbus
Jeffrey J. Matre, Kettering
Clifford Bautista Maximo, Cambridge
Patrick Kelley McGriff, Bellefontaine
Michael Scott McHenry, Milford
Amy Susan Melick, Roseville
Robert Raymond Michalski, Euclid
Thomas Scott Miller, Wellington
Samantha 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
Lauri Eileen Pal, Ashtabula
Rashmi Ishwar Patel, Columbus
Jessica Lynn Pollock, Columbus
David Joel Porter, Oak Harbor
Robert Scott Prewitt, Blanchester
Michelle Kathleen Putz, Worthington
Frank George Radis, Chagrin Falls
David Louis Rausch, Pickerington
Jaclyn Laura Reid, Columbus
Michelle Renee Roberts, Elyria
Christine Marie Rousseau, Newark
Mona Sangeeta Sahn, Solon
Todd Eugene Sanders, Delphos
Morris William Schaner, Canton
Angela Marie Schings, Toledo
William Andrew Schmalhofer,
Huber Heights
Laura Susan Schubach, Beachwood
Teresa June Schutte, Cincinnati
David Thomas Shima, Chesterland
Laura Jeanne Shiry, Bay Village
Svetlana Sonia Shtröm, Cincinnati
Bernadette Yvonne Smith,
Upper Sandusky
Julie Ann Smith, Hudson
Kelley Ann Steinbugl Raver, Columbus
Jiab Hasan Suleiman, West Bank, Israel
Otto Charles Susac, Jr., Geneva
Elaine Marie Suszcynsky, Struthers
Eileen Marie Swan, Richmond Heights
Megan Scully Thomas, Ft. Wayne, IN
Kiran Tipirneni, Gahanna
Paula Marie Tokar, Tallmadge
Marco Ramón Vásquez M.,
Rio Piedras, PR
Desy Despina Vouousakis, Steubenville
Stuart Allan Wahl, Massillon
Douglas Keith Warner, Columbus
Thomas Andrew Waters, Rocky River
Kara Lynn Wernke, Cincinnati
Samuel Thomas Whitmer, Troy
Christopher William Wilson, St. Marys
Margery Frances Wood, Columbus
Pamela Jean Young, Powell
Deborah Ellen Zimmerman,
North Canton

College of Humanities

Dean: G. Micheal Riley

Bachelor of Arts

Gregory Scott Abbott, Pickerington
Nanette Rea Adams, Columbus
Audrey Lynn Alexander, Columbus
Kendall Maria Allen, Akron
Joseph Louis Altieri, Columbus
Dwight Curry Anderson, Columbus
Kelli Anderson, Madison
Scott Maurice Anderson, Columbus
Alisha Ann Ardolino, Columbus
Mark Eugene Arnold, Columbus
M. Jane Ashby, Columbus
Carol Leigh Barritt, Bridgeport
Nancy Ann Baumgarten, Pepper Pike
Belinda S. Beires, Columbus
Amy Jo Berks, Dayton
David L. Bernstein, Columbus
Tamara 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
Caren Ferree Calendine, Columbus
Courtney Jane 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 G. Daniels, Reynoldsburg
Mary Coady Davis, Columbus
Michael P. Deagle, Worthington
January Elizabeth Dean, Dayton
Cynthia June Dejacimo, Warren
Michele Elena Deter, Columbus
Theodore Brant Dickman, Zanesville
Laurie Bergman Diehl, Worthington
Rebecca Sue Dieker, Columbus
Troy Lyn Dotson, Columbus
Alicia Marie Dows, Columbus
Steven Michael Doyle, Seminole, FL
Darcy Ann Dreher, Powell
Shiela Lauren Dunsker, Cincinnati
Scott Allen Dybiec, Columbus
Kari Anne Erlewine, Springfield
Martha Mary Ernst, Farmersville
Hope Alane Feltman, Canton
Kim Ingrid Finlayson, Salisbury, MD
Amy Elisabeth Fisher, Howard
Kelli Faith Florman, Lyndhurst
Owen Christopher Frank, Columbus
Claire 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, Stuart, FL
Allison Paige Goff, Columbus
Scott Kendall Gordon, Worthington
Kathleen Elizabeth Green, Maumee
Myung Sung Han, Columbus
Kifi Zeba 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, Brecksville
David Scott Hogsette, Dayton
Matthew Rees Hunley, Bexley
Christine Marie Irving, Cleveland

James Drew Johnson, Sylvania
 Kathleen Anne Johnson, Galena
 Heather Ann Kalman, Columbus
 Celia Cunningham Kavanaugh, Columbus
 Mary Chi-Whi Kim, Shelby
 Stacy Setchfield Klevay, Akron
 Linda Lee Kocis, Cincinnati
 Joel Forrest Kohler, Westerville
 Thomas Adam Kolaja, Morgantown, WV
 Theodora Nicole Kostis, Elyria
 Philip Charles Kozell, Highland Heights
 Nikki Anne Krites, Uniopolis
 Kristine Noel Kunkle, Stahlstown, PA
 Marjorie 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
 Kristina Elsa 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 Meighan, 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 Aston Mily, Worthington
 Laura Jeane Mobley, Columbus
 Jessica Lynn Montgomery, Gallipolis
 Adam Daniel Moore, London
 Juliette Angela Moore, Dayton
 Sally Jane Moore, Columbus
 Manderlee Gibson Moritz, Columbus
 Kevin Dwayne Morris, Galloway
 Karrie Michelle Munshower, 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 Maerica Page, Columbus
 Steve Anthony Farlin, Marietta
 Paul Douglas Pasholk, Columbus
 Kenneth William Penry,

Magnetic Springs
 Julie Lynn Porter, New Albany
 Tommy Ray Porter, Columbus
 Michael Joseph Pottebaum, Maineville
 Mark Andrew Poyma, Columbus
 Wendi S. Pryatel, Mentor
 Jenefer Lynn Pugh, Columbus
 Beth Ann Pullen, Akron
 James Michael Purpura, Columbus

Mark Edward Raicevich, Euclid
 Paul Thomas Ratajczak, Medina
 Shannon Alonna Reese, Columbus
 John Stephen Regas, Columbus
 Laura Janine Reiss, Upper Arlington
 Alexander Rentel, Columbus
 Deeann Elizabeth Rigsby, Columbus
 Christina Suzanne Ritchey, Galena
 Eric Joseph Robbins, Columbus
 Anjanette C. Rose, West Carrollton
 Miles Eugene Russell, Killbuck
 Joseph David Sagan, Greenville
 Arthur Phillip Sagone, Columbus
 Ellen Beth Saunders, Oregon
 Keith Stephan Schneider, Bellefontaine
 James Michael Schuit, North Hampton
 Frederick Anthony Schultz, Columbus
 Renée Marie Schultz, Whippany, NJ
 Lisa Jill Schwartz, Pepper Pike
 Mary Alta Seelig, Columbus
 Fleur Pfeiffer Sells, Columbus
 Maria Dawn Senediak, Boardman
 Michael Roy Shreffler, Canton
 Catherine Anne Simon, Canton
 Jon Snyder, Loudonville
 Kenley Vispi Soule, Columbus
 Tamara Spero, Jerusalem, Israel
 Eric Joseph Staley, Powell
 Michelle Ann Stambaugh, Twinsburg
 Daniel J. Stewart, Westerville
 Sandra Kay Stinehart, Fostoria
 Laura Ann Stubblefield, Centerville
 Lori Ann Swafford, Steubenville
 Joseph Dean Swayze, 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
 Fredrick William Voigtman, Columbus
 Alexander Michael Vontsolos, Columbus
 Tracy Anne Warren, Newark
 Alison Anne Watkins, Kenton
 Thomas Friedrich Wei, Columbus
 Jill Patricia Weisheimer, Columbus
 Laura Elizabeth Werstak, Medina
 Jennifer Lynn Wilson, Medina
 Linda Ellen Wilson, Columbus
 Rachel Tracy Wimberly, Maumee
 Sandra Janice Wright, Cleveland
 Yasuko Yamamoto, Kure, Hiroshima,
 Japan

Richard Allen Yokel, Jr., Macedonia
 Terr 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 Choe, Mansfield
 Christine Cotton, Cleveland
 Sarah Elizabeth Driscoll, Worthington
 Kevin Carlyle Hall, Columbus
 Juanita Yvonne Jackson, Columbus
 Julie Lauren Maybruck, Columbus
 Ameer Sue Meyer, Sandusky
 Kevin J. Moody, Columbus
 Michelle Ann Murphy, Hebron
 Ketan Hiralal Patel, Dublin
 Patrick David Pauken, Columbus
 Erich Jürgen Schwartz, Columbus
 Brian Allan Siesel, New Washington
 James R. Snyder, Columbus
 Christine Marie Szczurek, Southington
 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 Bargar, Delaware
 Richard Everett Berry, Columbus
 Michael Charles Biewer, Findlay
 Julie Elaine Bitticker, Centerville
 Matthew Paul Braun, 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 Dennison, Marion
 Dee Ann Dunkers, Pittsburg, PA
 Daniel Dynin, Columbus
 Edet Maurice Effiong, Columbus
 Peter Wade Flora, Brookville
 Eric Halladay Gary, Cincinnati
 Steven Andrew Ginnan, Newark
 Samuel Elmer 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 Hóitink, Wooster
 Laurie Anne Huff, Worthington
 Joseph Bruno Jenko, Euclid
 Jason Herrin Jones, Kettering
 Mathew John Kaluza, Parma
 Matthew Henry Karrer, Worthington
 Inseong Jung Kim, Seoul, South Korea
 Thomas Adam Kolaja, Morgantown, WV
 James R. Marquez, Barberton
 Charles Henry Martin, Columbus

Stephen Forrest May, Mansfield
 John Archie McIntyre, Cleves
 Jennifer A. Nowak, Cleveland
 Jithender Pamulapati, Mt. Vernon
 Victor James Perotti, Athens
 Paul William Powers, Vandalia
 Radha Pyati, Beavercreek
 William Clarence Ray, Columbus
 Bernard Robert Renczevicz 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, Perrysburg
 Kent Andrew Smetters, Columbus
 Damian Anthony Smiroldo,
 Cuyahoga Falls
 Lori Ann Smith, Grove City
 Troy A. Smith, Mansfield
 John Robert Spurling, Columbus
 Tamera Jean Storts, Groveport
 Carrie Kim Stroud, Athens
 Christopher Howard Swartz, Marion
 Toshihiko Takeuchi, Conyers, GA
 Patrick Henry Troy, Marion
 Heather Ann Vocus, Aurora
 Deborah Ann Walston, 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 Alberty, Brecksville
 David Peter Alexander, Worthington
 Darrin L. Allen, Clyde
 Eric L. Allen, Columbus
 Joseph Louis Altieri, 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 Bame, Delaware
 Andrea Lynn Barnett, Columbus
 Sherif John Barsoum, Columbus
 Karen Louise Bartrum, Bay Village
 Donald Leon Bean, Jr., Columbus
 David S. Bell, Sidney
 Gregory Lee Bell, Centerville
 Tracy Ann Bernens, Reynoldsburg
 Doris Eileen Bernhardt, Columbus
 Laurie 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
 Bryon 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 Buso, Rootstown
 Beth Ellen Campbell, Bucyrus
 Spencer Frederic 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 Crist, Willowick
 Elizabeth Ann Dannaher, Columbus
 Donald Matthew Davet, Thompson
 Kristen Jane Davidson, Worthington
 Michael Dean Davis, Madison
 Christine Rohan DeCourcy, Cincinnati
 Amy Lynn Deerhake, New Knoxville
 James William Desmond, Pepper Pike
 Paul Thomas Devine, Columbus
 Brett Arthur Diehl, Columbus
 Tamara Sue Diener, Newark
 Elaine Kathryn Dillard, Lancaster
 Joseph Wara Dival, 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 Eddy, Grove City
 Brad L. Eggspuehler, Dublin
 Christine Lynn Ellerbeck, Dayton
 Thomas Barthelmus Elsea, Circleville
 Erik Carman Eriksen, Columbus

Jeffrey Ronald Ershler, Greensboro, NC
 Jeannette Denise Ervin, Shaker Heights
 Gina Isabel Espinoza, Beverly Hills, CA
 Michael A. Essman, North Canton
 Stephen Edwin Essman, Sciotoville
 Amy Lynn Faulder, Jackson Center
 Amy Federico, Mentor
 Kristin Lee Fennell, Warrenville, IL
 Betsy Feuerwerker, Beachwood
 Robert Potter Fickell III, Upper Arlington
 Jose Antonio Figueroa, San Juan, PR
 Marie Elizabeth Findish, Lorain
 Farzin Steven Firouzian, 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 René Foster, Newark
 Paulette Renée Fouts, Troy
 Steven Joseph France, Lancaster
 John Paul Franco, Cleveland Heights
 Dana Elizabeth Fugate, Columbus
 Melaney Anne Fullerton, Columbus
 John Charles Gallagher, Martins Ferry
 David Michael Gallatin, Dayton
 Kristine Marie Galpin, Columbus
 Richard McLain 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
 Gil Gotlieb, Moreland Hills
 Andrew Douglas Griffith, Columbus
 Heidi Ellen Grimm, Newark
 Robert Lawrence Gross, Kirtland
 Patrick Joseph Grubbe, Des Plaines, IL
 Dana Ellen Gutterman, Columbus
 Thomas Edward Gwinn, Newark
 Stephen Michael Haas, Portsmouth
 Nancy Lee Hahne, Maplewood, NJ
 Amy Elizabeth Haigh, Perrysburg
 Tabitha Kaye Haire, Worthington
 Zeena Denise Hampton, Springfield
 Alicia Gail Harandi, Terre Haute, IN
 Heather Christine Harker, Millersport
 Stephen Lawrence Harris, Athens
 Christina Michelle Harter, 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 Suthpen Herb, Dublin
 Robert Forrest Herbert, Milford
 Timothy Richard Herbst, Brookville

Gerald Arthur Herrington, Jr., Mentor
 Bartley Edward Herron, Columbus
 Angela Marie Hickey, Westerville
 Carl Vern Hickey, Urbana
 Michael Paul Hirschfeld, Akron
 Stephen Michael Hoerstring,
 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
 Kerri Elizabeth Hunt, Hamilton
 Diane Elizabeth Igel, Columbus
 Michael Xavier Imbroscio, Bellaire
 Deborah Susan Israel, Cleveland
 Deborah Susan Jaffe, Pepper Pike
 Mark Stephen Jerman, Columbus
 Linda Kay Johnson, Denver, CO
 Sean Russell Johnson, Olmsted Falls
 James Todd Jolley, Dayton
 Mary Barbara Jones, Columbus
 Yvonne Jeanine Jorrey, Lima
 Amy Lynn Kabb, Moreland Hills
 Thalia Kallipolitis, Zanesville
 Kenneth Patrick Karlock, Austintown
 Alison J. Kaspar, Medina
 Melissa Nichol Kendall, Dayton
 Lorna J. Kenyon, Bridgeport
 James Mosher Klein, Sylvania
 Monica Ann Klein, Centerville
 Joseph Peter Koncek, Columbus
 Caroline Elizabeth Konefal, Akron
 Ronee Faye Korbin, Cherry Hill, NJ
 Karen Marie Kosnikowski,
 Chapel Hill, NC
 Marsha Ann Kostelnik, Cleveland
 Carolyn Diane Kraml, Bay Village
 Brian David Krantz, Beachwood
 Allen D. Kraus, Cleveland
 Lawrence John Krauter, Columbus
 Carla Lynn Krichbaum, Columbus
 Kevin Aaron Kroos, Columbus
 Frances Marie LaCorte, Columbus
 Gregory Michael Lake, Perrysburg
 James Lapczynski, Findlay
 Tina Marie Laurin, Columbus
 John Scott Leach, Pickerington
 Dana Lynne Lee, Cleveland Heights
 Matthew David Lee, Elyria
 Kurtis Allen Leffler, Ontario
 Randy Lee Leffler, Carroll
 Jimmy Jay Lefton, Cincinnati
 Mark James Lehmkuhl, Bellevue
 Jalayne Kathryn LeMaster, Marion
 Alison May Lewis, Defiance
 Tod William Linton, Salem
 Kathleen Sohui Litrizza, Westlake
 Chrisanthy J. Loizos, Broadview Heights
 Mark Joseph Lukens, Lancaster
 Jean Annette Lyle, Alger
 Erin Leigh MacGillivray, McLean, VA
 Julie Kathryn Mack, Lima
 Erik Edward Mackling, Bucyrus
 Anne Victoria MacMillan, Mentor
 Paul Christopher Madden, Flanders, NJ
 Hripsime Malajikian, Cleveland

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 Sherry Lynn Maniere, Detroit, MI
 Rebecca Lynn Margolis, Lorain
 Lisa S. Mariano, Columbus
 Keith James Markano, New Milford, NJ
 James William Martin, Jr.,
 Waynesville, NC
 Robert Thomas Mazak, Wickliffe
 Laura Marie Mazzola, Westlake
 Janet Lee McCormick, Columbus
 R. Sean McKee, Upper Arlington
 John William McNamara, Sterling, VA
 Elizabeth Anne McNinch, Warren
 Adrienne Lisa Meiring, Reynoldsburg
 Bette Lynn Mendenhall, Columbus
 Edward Lyle Merta, Vandalia
 Sandra Jane Mikol, Mentor
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 Michael Christopher Miller, Dayton
 Trent Alan Miller, Mt. Vernon
 Wendy Sue Miller, Millersburg
 James Alan Mirich, Youngstown
 Mary Alice Montgomery, Worthington
 Craig Eric Moore, Columbus
 Wendy Christine Morris, Lakewood
 Lori Ann Morse, Columbus
 Joshua Adam Mott, Columbus
 Anthony James Muhlenkamp, Westerville
 Shelly Lynn Mullen, Columbus
 Tricia Lynn Murphy, Edison
 Jared B. Musselman, Massillon
 Linette Michelle Nadir, Flint, MI
 Susan Beth Nash, Orient
 Jason Norman Nehal, Akron
 Mark James Nelson, Grandview Heights
 Pamela Jane Nelson, Worthington
 Jeanne Louise Nemeth, Chesterland
 John Gilbert Nespeca, Youngstown
 Elisabeth Ha Le Nguyen, Columbus
 Annetta Cherie Nienhaus, Dayton
 Tamera Kay Norton, Zanesville
 Lisa Michelle Novack, Cleveland
 Patricia Ann Nowak, Springville, NY
 David Marshall O'Daniel, Westerville
 Peter Devlin O'Flaherty, Gahanna
 Patricia Lynn O'Grady,
 Middleburg Heights
 Eric Kelly Ohman, Louisville
 William C. Omlor, Sandusky
 Luz-Maria Gonzalez Ortiz,
 Guanajuato, Mexico
 Mary Frances Palumbo, Columbus
 Nicholas George Panagis, Wintersville
 Tanya Evette Partridge, Westerville
 James Joseph Paterson, Lorain
 Linda Rose Peck, Columbus
 Timothy J. Pedon, Columbus
 Sylvia Ann Perez, Brook Park
 Gregory Scott Peterson, Columbus
 Paul M. Pettus, Englewood
 Mark Richard Pfaff, Rocky River
 Jodie Lynne Pfahler, Mansfield
 Sarah Elizabeth Pierce, Mansfield
 Stacey Lynn Pitcock, Westerville
 Lovinia Marguerite Plimpton, 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 Randle,
 Cleveland Heights
 Gary Todd Reeder, Columbus
 Mary Beth Rees, Columbus
 Nicholas Michael Revelos, Middletown
 Michael Grant Rice, Columbus
 Timothy James Rice, Belpre
 Heather Elaine Rittenhouse, Delaware
 Wendy 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
 Juli Ann Ryan, East Liverpool
 Karla Christine Salmon, Chardon
 Bradley Earl Sams, Columbus
 Matthew Robert Sapp, Columbus
 James Edmund Sauer, Columbus
 Kathryn Joanne Saul, Franklin
 Tom Sazdanoff, Norwalk
 Kevin Michael Schad, Newark
 JoEllen Schaefer-Mays, Columbus
 Troy Michael Schepflin, Fremont
 Sydney Anne Schreiban, Columbus
 Matthew Thomas Schuler, Mansfield
 Daniel Alan Schwab, Holgate
 Brenda Sue Schwartz, Akron
 Eric James Schweitzer, Phillipsburg
 John Joseph Scott III, Columbus
 Jacqueline Marie Segura, Toledo
 Amy Lynn Severt, London
 Julie Lynn Severt, Columbus
 Beth Anne Shafran, Gahanna
 William Carey Shanks, Hudson
 Michael John Shea, Columbus
 Liesl Marie Sheets, Gallipolis
 Matthew Wayne Shellabarger, Brookville
 Laura Anne Shellenberger, Macedonia
 Stephanie A. Sheppard, Marietta
 Frederick Michael Shimp, Columbus
 Denise Diane Shondrick, Akron
 Cathy Ann Shortridge, Reynoldsburg
 Wendy Noel Showiak, Fairlawn
 Michael Scott Slane, Hilliard
 Angela Smith, Columbus
 DeLora Smith, Columbus
 Jeffrey Stephen Smith, Strasburg
 Frances Jean Smrekar, Columbus
 Michael Todd Snyder, Gahanna
 Kevin Adam Sommers, Kingwood, TX
 Robert Eric Somogyi, Mayfield Heights
 Charles Henry Sorrick IV, Streetsboro
 Carl Nathan Sperber, Pepper Pike
 Randall Trevor St. John, Columbus
 Joshua Lawrence Stahl, Columbus
 Suzanne Kay Stanton, South
 Charleston, WV
 Craig Stephen Starr, Cleveland
 Roberta Ann Stephenson, Columbus
 Robert Allan Stern, Hudson
 Derrick Alec Stewart, Euclid
 Michelle Marie Stewart, Huber Heights

John Stuart Stith, Georgetown
 Susan Emily Stocker, Cincinnati
 Laurie Anne Stott, Columbus
 John Martin Stover, Greenville
 Latricia Annette Street, St. Marys
 Scott Richard Streng, Anaheim, CA
 Bonnie Lou Strobe, Columbus
 Scott Robert Suydam, South Euclid
 Lisa G. Swartzwelder, Mentor
 John Joseph Szczypinski, Pittsburgh, PA
 Mary Amonet Talley, Redondo Beach, CA
 Wendy Gene Tanner, Mantlius, 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
 Ann Marie Todd, East Palestine
 Timothy Joseph Tomlinson, Columbus
 Thomas Charles Tootle, Dublin
 Shani Beth Topolosky, Columbus
 Konnie Ann Toth, Columbus
 Debra Ann Tricarico, Columbus
 Andrew Paul Tuzzeo, Columbus
 Tracy Lynn Ullman, Loudonville
 Barbara Michelle Underwood, Belpre
 Julie Carole Vieson, Cincinnati
 Jodi Kay Walker, Louisville
 Robin Renee Walker, Lancaster
 Michael Henry Wander, Canton
 Reginald Bernard Ware, Cleveland
 Angela Kay Warnke, Columbus
 Terri Dana Wayne, Cincinnati
 Chris Daniel Weaver, Canton
 Ruth Ann Weber, Sunbury
 June Anne Weekley, Westerville
 Lee S. Weinstock, Shaker Heights
 Lana Rachelle Wells, Boston, MA
 Deborah Sue Whaley, Dayton
 Douglas Macleod Whitfield, Columbus
 Meredith Lee Whitney, 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 Elisabeth Wright-Reynolds,
 Columbus
 Julie Ann Young, Zanesville
 Todd Andrew Young, Cincinnati
 Becky Lynn Youngpeter, Delphos
 Craig Alexander Zahnisser, Columbus
 Vivian Zolotas, Cincinnati

Bachelor of Science

Christopher Todd Armour, Fulton, NY
 Geoffrey Edmunds Best, Massillon
 Juanita Irene Bixel, Worthington
 Kristin Lynn Bordner, Massillon
 Jeffrey Alan Borel, Worthington

Julia BeRae Brown,
 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 Eschliman, Toledo
 Christopher Eric Falk, Cincinnati
 Michelle Lynne Finneran,
 Princeton Junction, NJ
 Dawn Michelle Fugett, Fostoria
 Cheryl Ann Gaeta, Highland Heights
 Jeffrey Donald Gerth, Cincinnati
 Michelle Suzanne Gross, South Euclid
 Argyrios Konstantinos Haritos,
 Athens, Greece
 Roger Alan Hayslip, Dublin
 Lee Ann Holley, Windsor
 Lisa Ann Hunsberger, Davison, MI
 Phillip Scott Jacobs, Columbus
 Parul Kirit Kapadia, Upper Arlington
 Michael Warren Klein, Dublin
 Lynn Marie Krise, Stow
 Gina Kaye Lehr, Columbus
 Laura Lynn Liebenauer, Chesterland
 Darcy Lynne Lord, Grove City
 Jody Lee Mathews, Worthington
 Derek Steven Meyer, Columbus
 Jeffrey Warren Miller, Amherst
 Rosemarie Moll, Upper Sandusky
 Pamela Marie Nelson, Columbus
 Philip Lee Newton, Newark
 Jerald Frank Ogrisseg, Canton
 Regina Diane Olbinsky, South Euclid
 Craig Raymond Oshima, Fairborn
 Regina Yvette Owens, Mansfield
 Thomas Armand Pampush, Rocky River
 Brett Arnold Papenhagen, Toledo
 Jason Alexander Peck, Reynoldsburg
 Shelly Rae Perdue, Bellefontaine
 Chun Ho Poon, Columbus
 Phillip Terry Potter, Lakewood
 Jennifer Lynn Potts, Hannibal
 Amy Lynne Robins, Toledo
 Kirk Bradley Rose, Dayton
 Steven Vincent Savage, Columbus
 Terrence Allen Smith, Sandusky
 Teddi Joann Stepien, Gates Mills
 Olive Sue Stover, Columbus
 Mark Edward Stratton, Elida
 William Carl Stumphauer II, Amherst
 Cassandra Suggs, Columbus
 Walker Neikirk Sydnor, Powell
 Joseph A. Terry, Pleasant City
 Deborah J. Thomas, Belle Valley
 Lisa Dawn Thomas, Westerville
 Melissa Della Watkins, New Philadelphia
 John Ballentine Webster,
 Grosse 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 Allemeier, Lima
 Melissa Diane Allison, Centerville
 Kimberly Rose Anson, Ironton
 Brian Thomas Austin, Buffalo Grove, IL
 Lisa Joy Barberree, Fremont
 Roy Joseph Bartelmay, Youngstown
 Susan Devra Batman, Cuyahoga Falls
 Andrew Prince Bessey, Worthington
 Steven Tad Biermann, Shaker Heights
 Mary Barbara Bjorn, Hudson
 Bonnie Steele Boal, Upper Arlington
 Joseph Anthony Bolger, Gahanna
 Brian Robert Bushaw, 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 Crerand, Columbus
 James Alden Crouse, Akron
 Melissa Ann Cullers, Dayton
 Margaret Decker, Lucasville
 Sean Christian Demaree, Worthington
 Heidi Lynn Dixon, Columbus
 Mark Francis Donahue, Lyndhurst
 Stacey Lynn Donovan, Wapakoneta
 Hiliary Carol Dwoh, Cleveland
 Susan Beth Eagleston, Mansfield
 Tracy Lynn Elmer, Strongsville
 Karen Lynn Erman, Coshocton
 Tanja Renè Fazzari, Toledo
 Sophie Ferenz, Geneva
 Thomas Gregory Ferguson, Columbus
 Denyse Ann Fissel, Columbus
 Kimberly Ann Flynn, Niles
 Mary Ellen Foley, Columbus
 David Tovya Frankel, Cincinnati
 Daniel Harry Friedman,
 Highland Park, IL
 Brad Allen Gaerke, Minster
 Gary Robert George, Cincinnati
 Stephan Andrew Gordon, Cardington
 Kara Beth Grady, Millville, NJ
 Beth Ann Griese, Trotwood
 Jay Herbert Gross, Livingston, NJ
 Terri Lynn Gurscik, Sylvania
 Toya LaVette Harris, Pasadena, CA
 Jonathan Eric Hartstein, Beachwood
 Stephen Mack Helwagen, Circleville
 Robert Forrest Herbert, Milford
 Todd Christopher Heron, Kettering
 Beth Kyle Herschelmann, Lorain
 Tracey Lee Hoskin, Burghill
 Nancy Sue Hubbard, Worthington
 Eric Ryan Hulsman, 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, VI
 Susan Lynn Kimberly, Columbus
 Thomas Todd Kipp, Bexley
 Juli Elynn Klyce, Worthington
 Victoria Maria Kohler, Akron
 Angela Marie Kostantaras, Brecksville
 Beth Anne Kuhlman, Toledo
 John Denis Lavelle, Jr., Lakewood
 Robert Edward Lee IV, Columbus
 Laura Jean Lobinger, Medina
 Kimberly Joyce Lockhart, Medina
 Linda Michele Loescher, Mansfield
 Megan Therese Markey, Cincinnati
 Shannon Renee McCutcheon,
 Orchard Lake, MI
 Kristen Lee McLeod, Youngstown
 Lauren Mary McRedmond, Cincinnati
 Jill Suzanne Melley, Columbus
 Mary Carol Miller, Columbus
 Kathryn Marie Monard, Neenah, WI
 Becky Joann Moore, Reynoldsburg
 Meni J. Morris, Dayton
 Madonna Bove Morrison, Youngstown
 David William Myers, Columbus
 AnnMarie Nolan, Cincinnati
 Barbara Jean Nolan, Shaker Heights
 Christina Lynn Nourse, 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
 Larra Kristen Reed, Bexley
 Patricia Marie Remmers, 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 Stelts, Leetonia
 Suzanne Marie Stempson, Fairborn
 Tina Lee Straw, Amherst
 Ann Elizabeth Sumwalt, Huron
 Mark Douglas Swabby, Upper Arlington
 Sheila Elizabeth Sweeney, Toledo
 Whay Khuan Teo, Singapore
 Susan Lee Thomas, Columbus
 Daniel Christopher Vaughan, Cincinnati
 Shelley Alise Vigder, Akron
 Matthew Lee Wagner, Troy
 Mary Susan Westbrook, Houston, TX
 Keith Michael Whisler, Dayton
 James Thomas White, Lyndhurst
 Steven Mark White, Columbus

Judith Brewer Wiseman, Columbus
 Briggen Beth Wrinkle, Westerville
 Laura Ann Young, Columbus
 Leslie Ann Zucker, New Washington

College of Agriculture

Acting Dean: J. Robert Warmbrod

Bachelor of Science in Agriculture

Mark Bambach, Cincinnati
 Brian James Barrett, Vincent
 Beverly Ann Baumberger, Beallsville
 Denise Rena Bee, Amlin
 Ellen Geneva Marie Bergfeld, Columbus
 Genevieve Aleta Bishop, Hilliard
 Lance Edward Bonin, Bloomville
 Daniel Robert Broering, Coldwater
 Michael Louis Broermann, Camden
 Walter O. Bumgarner III, Mechanicsburg
 Joseph A. Burrus, Lancaster
 Robert Thomas Collins, 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 Dellinger, Milford Center
 Randy Lee Delposen, 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, Gahanna
 Kimberly Annette Evans, New Paris
 Holly Ann Fender, Columbus
 Robert Paul Filburn, New Carlisle
 Robert Allen Folck, Springfield
 Charles Christopher Gates, Oak Harbor
 Mark Richard Gerber, Columbus
 James Raymond Gresh, Powell
 Stephen Darst Grund, Columbus
 Teresa Christine Guess, Jamestown
 Daryl Luke Guggenbiller, Fort Recovery
 Michael David Hagerty, Columbus
 Mark Alan Halderman, Eaton
 Joseph Staley Hart, Belmont
 Marc Albert Hassan, Celina
 Rhonda Michelle Hattan, Hillsboro
 Douglas Myron Hoelscher,
 New Knoxville
 Jonathan Donald Hord, Bucyrus
 Raymond Laurence Jackson, Wellington
 John Orlo Jones, Liberty Center
 Roderick Alexander Kagy, Bloomville
 Jane Kent, Mechanicsburg
 Vincent Richard Kinstle, Columbus
 Jeffrey Brent Knedler, Forest
 Teresa Charleen Koeper, New Bremen
 Susan Lynn Koppes, Medina
 Julie Lee Lemmermen, Tiffin
 James Edward Lofgren, Louisville
 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 T. Perry, Westerville
 Douglas Duane Phillips, Kenton
 Cy Leroy Prettyman, Morral
 John Rasinski, Uniontown
 Ken Eric Renner, New Carlisle
 Joel David Rhoades, Ohio City
 Robert Roy Riddle, Sidney
 Sean Michael Robinson, Zanesville
 Julie Lynne Roemer, Oxford
 Darren Charles Rowland, North Canton
 Jerrold Jay Saltzman, Ada
 Eric David Saunders, Toledo
 Holly Ann Scherler, Brighton, MI
 Eric Paul Schuerman, Pemberville
 Keith Edward Serafy, Coshocton
 Matthew Lynn Smith, Urbana
 Joseph Harold Snyder, Chillicothe
 Alzouma Souanna, Republic of Niger
 Greg Mitchell Steiger, Bucyrus
 Micah Len Stevens, Williamsport
 Robert Ashley Taft, Jr., Windham
 Marci Dawn Thompson, Circleville
 Nancy Lynn 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 Wendt, Columbus
 Nicholas James Werling, Burkettsville
 Cheryl Darlene White, Stockport
 Theodore Henry White, Canton
 Kandis 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 Zarlengo, Canton
 Lori Ann Zenz, Liberty Center
 Edward Stanley Zore, Richmond Heights

Bachelor of Science in Food Science

William Hubert Ayars, Jr., Mechanicsburg
 Brett Allen Berthold, Valley City
 Eric Leonard Dupler, 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 Fae Rice, Cincinnati
 Brian Joseph Stemley, New Weston

Bachelor of Science in Nutrition

Dawn Leigh DaHinden, Ashland
Joan Marie Pero, Hartsville

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 Claar, Columbus
Wayne Steve Colegrove, Waverly
Robert Lyle Fendrick, Columbus
Brett Eric Fletcher, Columbus
Susanne Elaine Good, Kettering
Thomas Andrew Haley, South Charleston
Michael Lee Hehmeyer, Worthington
Edward Thomas Holland, Lakewood
Mark Alan Honken, Lockport, NY
Derek James Janson, Springwater, NY
Mary Elizabeth Knierim, Lakewood
Kenneth Gerald Kopycinski, Mansfield
Kristine Marie Kovesi, Southgate, MI
Frank Adam Krawczyk, North Royalton
Christopher Lawrence Lask, Cleveland
William Thomas McLean, Canton
Mark Joseph Minnillo, Elyria
Shelley Jean Mott, Kettering
Michael Alan Narotski, Akron
Eric Douglas Ney, North Canton
William Edward Novak, Galion
Mark William Parr, West Carrollton
Stephen James Parton, Mansfield
Christopher Mark Regelski, Warren
Tennyson Sanders, Hillsboro
Timothy David Scharf, Salem
Edythe Mae Seehafer, Columbus
Betsy J. Server, Bellefontaine
Paul Daniel Sherwood, Hunting Valley
Thomas Martin Steiner, Piqua
Matthew Joseph Walsh, Eaton
Peter Brian Wisti, Arlington
Amy Christine Yore, Upper Arlington

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 Bidlack, Continental

Howard Allen Born III, Amherst
Law Jason Brod, Akron
Dawn Marie Burkhart, Brecksville
Daniel Cheston 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 Gano, New Philadelphia
Jonathan Edward Glass, Loudonville
Franklin R. Golec, Dennison
David Charles Heath, Medina
Thomas J. Hudy III, Paris
John Jacob Ingram, Canal Fulton
Randy Michael Jackson, Bucyrus
Angela Ruth Kaverman, Fort Jennings
Joanne Marie Keck, Canal Fulton
Troy William Kies, Sidney
Larry Edward Kleilein, Lucas
Timothy E. Lahmon, Mt. Vernon
Jennifer Roberta Lewis, Akron
Blair Adam List, Pickerington
Dan W. Lochtefeld, Fort Recovery
Nicholas R. Marrali, Maple Heights
Michael Scott McKosky, Thompson
Gwendolyn Kay McMillen, Mt. Vernon
Donald Lynn Messer,
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 Alan Newell, Oberlin
Bonginkosi J. Njokwe, Imbali,
South Africa
Theodore Frank Pasko III, Lima
Michael David Pfahler, Bucyrus
Timothy Daniel Ramos, Milford
Kevin David Rausch, Marysville
Christine Annette 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 Diann Schneider, Avon Lake
Charles T. Schreiber, Continental
Bradley Dean Schroeder, Wadsworth
Paul Hoadley Sheaffer, Tiro
Darin Patrick Skinner, Delaware
Joseph E. Staraitis, North Jackson
Todd L. Studenka, Wauseon
Francis Andrew Teichman, Owosso, 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. Willauer, 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 Abbruzzese, Columbus
Barbara Gayle Abramson, Greensburg, PA
Raquel L. Saho AbuShaban,
Gnadenhutten
David Brian Akers, South Vienna
Timothy Jay Albright, Circleville
Todd Robert Altenbach, Elida
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 B.S. Nurs. (Wright State University)

Steven John Ritzi, Worthington

David Mark Robinson, Cincinnati
 B.S.

William J. Rouhana, Columbus

John Russo, Youngstown
 Melinda Ann Ryan, Cuyahoga Falls
 B.A. (Miami University)

Robert George Schmidt II, Gahanna
 B.S. (Hillsdale College)

Nancy Lynn Schoenberg, Columbus
 B.S. (University of California-Davis)

William Walter Sikora, Adena
 B.S. (John Carroll University)

Richard George Skoula, Columbus
 B.S. (Baldwin-Wallace College)

Deborah Lynn Smith, Columbus
 A.A. (Cuyahoga Community College)

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 Suelflohn, Columbus
 Paul Anthony Toplek, Girard
 B.S. (Youngstown State University)
 Colleen Gartin 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 Woodard, Columbus
 B.A. (Wittenberg University)
 Mary Louise Zebracki, Columbus
 B.S. (Kent State University)
 C. Roger Zody II, Oxford
 B.A. (Miami University)

Bachelor of Science in Dental Hygiene

Rosemary Behm, Chagrin Falls
 Rebecca Lynn Branson, Miamisburg
 Ewa Teresa Byczek, Columbus
 Stacey Katherine Contakis, Columbus
 Karri Ann Gaiser, Centerville
 Robert William Gardner, Newton Falls
 Amy Lynn George, Columbus
 Susan Jean Geraci, Broadview Heights
 Sherry Lynn Gray, Carrollton
 Heather Ann Hathaway, Delaware
 Kathy Lyn Hewitt, Zanesville
 Linda Marie Hippler, Bay Village
 Deana Jorvita Lane, Temple Hills, MD
 Melissa Dianne Mariani, Niles
 Lisa Marcella McGlone, Grove City
 William Louis Medved, Kirtland
 Scott Patrick Nagy, Elyria
 Rochelle Jane Palencar, Worthington
 Heidi Louise Phillips, Chagrin Falls
 Sue Ann Riemann, Bluffton
 Laura Marie Scheetz, New Middletown
 Nikki Lynn Scott, Ironton
 Amy Christine Shaw, Lorain
 Margaret Ann Starrett, Shelby
 Wendy M. Volk, Cortland
 Debra Ann Yondo, North Olmsted
 Victoria Louise Zajack, Columbus
 Casandra Sue Zech, Sandusky

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 Armfelt, London
 Deborah Lynn Ashton, Canton
 John Allen Babik, Columbus
 Inuwa Mohammed Bajoga, 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 Benadum, Columbus
 Laura Christine Berichon, Bay Village
 Sherri Dee Berman, Cincinnati
 Cimer Lee Betts, Columbus
 Mary Thurston Biscuso, 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 Brannan, Perry
 Mindy Lea Brown, Columbus
 Scott Allen Brown, Newark
 Tina Lee Brown, Richwood
 Jennifer Kay Browning, Newark
 Dean Randall Bulmer, Baltimore
 Kimberly Mary Burkle, 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 Renee Canan, Tipp City
 Tressa Michelle Carey, Spencerville
 Debra Lynn Carnevale, Middletown
 Sheila Marie Carr, Marion
 Hugh Wesley Carrington, Cleveland
 Connie Radine Carter, Mt. Vernon
 Constance Pellegrino Cashman, Gahanna
 Karen Danielle Cavallaro, Westlake
 Jacqueline Rhea Chaffins, Dayton
 Richard Alan Chenault, Columbus
 Julie Lynn Chesonis, Ashley
 Linda Carol Citino, Salem
 Janet Rae Smith Clark, Sycamore
 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. Corder, Convoy
 Lance Michael Corven, Gahanna
 James Alan Costas, Centerville
 Laura Ann Cotter, Columbus
 Gerald Earnest Cox, Groveport
 Cathilu Crestivon, Marion
 Sharon Cautley 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 Datoe, Lima
 Carla Kay Davis, Dublin
 Amy Diane Denison, Pataskala
 Michelle Renee Dennie, Elyria
 Ginger Lynn Dennis, Bowerston
 Deborah Joanne DeVita, Lima
 James Allen Diebley, Shelby
 Lisa Schentur Diemer, Upper Arlington
 Laura Dietrich, Nankin
 Janet L. Kielemeyer Dietsch, Marion
 James Robert Dillon, Mansfield
 Louis Ronald DiOrio, Worthington
 Wendi Lyn Dix, Marion
 Karen Marie Doerflein, Cincinnati
 Timothy Scott Dorne, Columbus
 Sarah E. Driscoll, Worthington
 John Michael Duellman, Mansfield
 Dawn Michelle Dunker, Beaver Creek
 Deborah Durham Dunleavy, Columbus
 Barbara J. Eastman, Raymond
 Shelley Dawn Ebright, West Jefferson
 Rita Marie Edgington, Columbus
 Barbara Bruce Edwards, Cridersville
 Julie Kay Eibling, Kenton
 Tamara Lynne Eibling, Dola
 Michelle Anne Englehart, Brook Park
 Pamela Jane Ensign, Richwood
 Janet Ruth Esque, Baltimore
 Jennifer Sue Evans, Columbus
 Lauren Trenholm Evans, Washington, DC
 Gordon James Falen, Blanchester
 Michele Lynne Fasone, Annapolis, MD
 Sandra Jo Faze, Lima
 Inara B. Febus, Lima
 Stephanie Louise Fenik, Jackson
 Amanda Catherine Ferry, Columbus
 Leslie Lynn Flacche, Columbus
 Molly Sue Flint, Columbus
 Audrey Gale Fox, Greenwich
 John Paul Fox, Findlay
 Pattij Jo Fox, Bucyrus
 Julie Elizabeth Freeman, Centerville
 Stephen Patrick Frischen, Kirksville
 Tracy Jean Frost, Wooster
 Kimberly Ann Fudge, Granville
 David Wayne Fugate, West Jefferson

Teresa Lynn Fulkerson, Marion
 Gary R. Gaal, Columbus
 Heidi Marie Gehron, Spencerville
 Charles Evan George, Westerville
 David Franklin Gerfen, Prospect
 Bradford L. Gintert, Warren
 Gregory James Goad, Toledo
 Christopher William Goddard,
 North Canton
 Janet Lynne Goecke, Delphos
 Joyce B. Goodge, Marengo
 Sarah Elizabeth Greco, Westlake
 Suzanne Elizabeth Green, Franklin, MI
 David Keith Griffey, Galion
 Rodney W. Grist, Columbus
 Pamela Marie Grubbs, Pickerington
 Michael Leroy Grunden, Bryan
 Lori Kim Gulling, Reynoldsburg
 Dawn Marie Hall, North Fairfield
 Heath Alan Hall, Worthington
 Ardith Ann Haney, Harrod
 Stephanie Gail Haney, Amherst
 Rachel L. Harner, Jamestown
 Lori Ann Harris, Woodlands, TX
 Kimberly E. Harruff, Marion
 Laura Ellen Hastilow, Pataskala
 Lesley Ann Hawkins, Sebring
 Michael Dale Hawkins, West Chester
 James Eric Heagen, Newark
 Janet Lynne Hecht, Dayton
 Dawn Leann Healey Heimlich,
 Cardington
 Judy Marie Hellwarth, Celina
 Wesley Darrel Helmuth, London
 Vicki Lynn Hermiller, Pandora
 Todd Ensign Heslet, Marblehead
 Traci Susan Hickey, Columbus
 Ann Bernadette Homan, New Bremen
 Vondra Lee Hoop, Grove City
 Patricia Ann Hopkins, Cuyahoga Falls
 Janet Sue Hord, Nevada
 Keith William Horner, Lima
 Nancy Josephine Housekeeper,
 New Bloomington
 Cynthia Lynn Hover, Lima
 Bradley David Humrichouser,
 Apple Creek
 Stephanie Jo Hunter, Groveport
 Rebecca Kay Hurd, Dover
 Lawrence Allen Hutson, Dennison
 Lynn Marie Igo, Columbus
 Edward David Ingle, Shelby
 Mary Jane Isaacs, Grove City
 Tamela Lou Jack, Newark
 Mary Lou Jacklin, Mt. Vernon
 Laura Beth Jackson, Mt. Sterling
 Laura Dyane Jackson, Delaware
 Tamara Lou Jacobs, Marion
 Barbara Mary James, Gahanna
 Daniel Mark Jenkins, Columbus
 Tami D. Jenkins, Marion
 Debra Lynn Johnson, Stow
 Teresa Lynn Juergens, Columbus
 Roger Allen Jury II, Nevada
 Pamela Joy Kaczor, Milan
 Kathryn Louise Kanehl, West Salem
 Wendy Anne Kaye, Columbus
 Gayle Marie Kaylor, Gahanna
 Charles Theodore Keenan, Steubenville

Deborah Anne Keenehan, Lima
 Marcia Pope Keirns, Bloomville
 Jill Eileen Keller, Mansfield
 Debra Lynn Kempton, Cardington
 Edward Eugene Kennedy, Mansfield
 Jennifer Lauren Kent, Upper Sandusky
 Julie Ann Kidder, Vincent
 Dianne Marie King, Dublin
 Michael Steven King, Columbus
 Sabrina King, Wyoming
 Paul Michael Kish, Masury
 Wayne Joseph Kleman, Jr., Columbus
 Jayne Ellen Klingel, Waldo
 Kenneth Douglas Knapp, Columbus
 Linda Lee Kocis, Cincinnati
 Velvet Ann Kokot, Dayton
 Scott Gregory Kravitz, Columbus
 Todd John Kreider, Columbus
 Kevin Lee Krier, Granville
 Randy Alan Krulac, Columbus
 William Norwood Kuhrt, Fairfield
 Nancy Rose Kuley, Cincinnati
 Deborah Leigh Kull, Millersport
 Michael James Kuri, Martins Ferry
 Alisha Celeste Landis, Columbus
 Lisa Mary Lane, Columbus
 Norman Joseph Latorre, Columbus
 Traci Lynette Lausberg, Newark
 Katherine Elizabeth Lay, Belle Center
 Kelli Jean Leinbaugh, Gahanna
 Donna Lea Lemmon, Heath
 Michelle Dawn Lemmon, Columbus
 Schelley Lea Leopard, Marion
 Marsha Ann Levering, Cardington
 Joan Levy, Montgomery
 Richard Alan Lewis, Marion
 Cynthia Lynn Light, Bucyrus
 Elizabeth J. Linard, Columbus
 Theresa Metter Lingenfelter, London
 Leanne Yvonne Lott, Reynoldsburg
 Monica Lynn Lucas, Troy
 Amy Michelle Lutz, Amherst
 Jane Harris Mabry, Columbus
 Kathleen P. Mardis, Delaware
 Todd A. Marian, Youngstown
 Donald Franklin Marn, Jr., Mt. Vernon
 Diane Marie Marolt, Euclid
 Lyndon Earl Marshall, Cincinnati
 Jerry D. May, Jr., Grove City
 Margaret Susan Mayo, Gahanna
 Elizabeth Renee McCallister,
 Reynoldsburg
 Mary A. McCullough, Newark
 Carl Derek McDonald, Columbus
 James C. McGuire, Circleville
 Shanna Lynne McHugh, Delaware
 Michael Wayne McKee, Newark
 Linda Bautz McKenna, Mansfield
 Mark Douglas McKenzie, Reynoldsburg
 Janet Sue McKinley, Huntsville
 Christine Alice McMillen, Mansfield
 Thomas Andrew McRae, Columbus
 Michelle Lyn Meckler, Elyria
 Gary Alan Mehl, Neffs
 Karen Marie Metti, South Euclid
 Craig Alan Meyer, Wapakoneta
 Patricia Ann Michaels, Columbus
 Brigid Celeste Middeler, Columbus
 Scott William Milewski, Brunswick

Andrew Alan Miller, Delphos
 Claudia Richards Miller, Worthington
 Jennifer Ellen Miller, Beverly
 Judith Arlene Miller, Newark
 Lori Anne Miller, Cloverdale
 Michelle Marie Miller, Lima
 Tom Joseph Miller, Pataskala
 Christina Jean Minor, Circleville
 Brenda Sue Moore, Canton
 Jeffrey David Moore, Zanesville
 Jennifer Elizabeth Moore, Galloway
 Susan Annette Moore, Groveport
 Leila Maria Morera, Gahanna
 Susan Elaine Morris, Lima
 Sara Faye Mottaz, Bay Village
 Lisa Ann Mottice, Mentor
 Donald Lee Musick, Columbus
 Barrie Jeanne Muzbeck, Novi, MI
 Lisa Kay Myerholz, Gibsonburg
 James Ira Myers, Columbus
 Rachel Lynn Myers, Vermontville, MI
 Lynda Sue Nabors, Newark
 Julia Metzger Neidert, Fort Jennings
 Craig Alan Nethers, Newark
 Timothy Jay Newman, Kenton
 Janet Lynn Niday, Dayton
 Kara Lynn Noftz, Van Wert
 Rachel Lynn Norden, Hamler
 Amy T. Norman, Franklin
 Mary Anne O'Donnell, Marietta, GA
 Janet Lynn O'Neil, Lima
 Colleen Marie O'Rourke, Fairlawn
 Jennifer Lynn Oberle, Delaware
 Angela Joan Orlando, Lorain
 Beatrice Mary Padley, Pataskala
 Mark Stephen Panko, Palatine, IL
 Leesa Marie Paolini, Columbus
 Julia Jeanette Papcke, Hilliard
 Tammie Ann Parnell, Hudson
 Cathleen A. Penix, Pickerington
 Todd Daniel Pentello, Columbus
 Michelle Lynn Pettit, Orient
 Christine Elizabeth Petrik,
 Mayfield Heights
 Christina Elizabeth Pfeiffer, Canton
 Stephen Craig Pfister, West Chester
 Jincy Fae Phillips, Mansfield
 Jeffrey Lynn Pickett, Mt. Blanchard
 James L. Pirt, Pittsburgh, PA
 Pamela Jeannine Pittman, Columbus
 Tonya Marie Plummer, Reynoldsburg
 Anthony Miles Ponder, Xenia
 Jill Belcher Ponzi, Sunbury
 Timothy Gerard Popely, Fairport Harbor
 Roger Jon Porterfield, Columbus
 Kim Elaine Potts, Coshocton
 Ann Marie Prendergast, Columbus
 Kevin Michael Purpura, Portsmouth
 Catherine Anne Ransom, Columbus
 Molly Lynn Ratliff, Marion
 Kathryn Mary Rausch, Columbus
 Doreen Kay Reall, Reynoldsburg
 James Albert Reding, Granville
 Elizabeth Lanae Reier, Columbus
 Renee Lynn Reuss, Ashland
 Teresa Lanee Rhodebeck, Mt. Gilead
 Linda K. Riley, Marion
 Mary Cathleen Rimmer, Bronx, NY
 Robert Oliver Rine, Green Springs

Heather Elaine Rittenhouse, Delaware
 Ronda Kaye Ritzler, 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 Sawan, Akron
 Elaine Marie Schimmoeller, Fort Jennings
 Jamie Sue Schimmoeller, Columbus
 Christine Marie Schmitt, North Olmsted
 Louis John Schmitt, Gahanna
 Sara Alta Schorger, Newark
 Diana Dale Schuldt, Columbus
 Patricia Lynne Schwertzler, North Canton
 Geoffrey Phillip Scott, West Worthington
 Karen Lynne Scott, Newark
 Brent Alan Secrest, Shelby
 Tamara Sue Segrales, Columbus
 Jacqueline Cornette Sewell, Westerville
 Beverly Ruth Seymour, Ashville
 Jeanette Marie Shaffer, Springfield
 Susan Kay Short, Troy
 Laura Silka, Mansfield
 Miriam Christine Skapik, Newark
 Jacalyn Kay Slemmer, Columbus
 Amy Lynn Smith, Burghill
 Derek Anthony Smith, Brunswick
 Pearl Ann Smith, Danville
 Lori Suzanne Smolik, Columbus
 Lisa Marie Snow, Mt. Vernon
 Julie Ann Somers, Swartz Creek, MI
 Angela Kaye Spencer, Wapakoneta
 Beverly Ann Jenkins Staley,
 West Mansfield
 B. Suzette Stallard-Bales, Mansfield
 Susan Frances Stalter, Columbus
 Barry Lon Stamper, Fairborn
 Ronald Eugene Summers, Columbus
 Kellie Jean Swaggerty, Columbus
 Toni J. Sweigart, Columbus
 Alicia G. Sword-Larson, Columbus
 Juan Luis Taquechel, Jr., Miami, FL
 Kim Inez Telatnik, Amherst
 Charles Burton Thiel, Wharton
 Charlane 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 Jayne Tobin, Marion
 Tamara Kay Torbet, Lima
 Diane Palliser Torrance, Lima
 Theresa Ellen Towner, New Lexington
 Heidi Lane Townsend, Westerville
 Carol Elaine Trimble, Delaware

Christopher John VanArsdale, Columbus
 Linda Louise Vance, Shelby
 Michael D. Vandrask, Lakewood
 Theodore Larry Vasei, Winget Run
 Natalie Ann Vinciquerra, Kirtland
 Jeffrey Lee Vogt, Hilliard
 Brian Lee Vredenburgh, Plymouth
 Melanie Phyrn Wahl, Elyria
 Karen Marie Walaszek, Columbus
 Christina Ann Walcutt, Powell
 Ronda Eileen Wallace, Marion
 Karen A. Walsh, Tonawanda, 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, Grafton
 Sandra Sue White, Gahanna
 Kathryn Sue Whiteley, Orwell
 Wenda Renee Wilkerson, Mt. Blanchard
 Jeffrey Lynn Williams, Crooksville
 Jo Anne Williams, Gomer
 Kenneth Edward Willis, Cincinnati
 Cathy Stephen Wilson, Mt. Vernon
 Teresa Lou Wilson, St. Louisville
 Elizabeth Anne Wince, Lancaster
 Debra Jo Winegardner, Thornville
 Jennifer Ann Winkel, Columbus
 Michele Ruth Witalec, Heath
 Melissa Justine Wolfe, Little Hocking
 Amy Charlene Wood, Ironton
 Stacy Woodford, Columbus
 Mary Ellen Wormley, Kenton
 Maria Louise Woytko, Medina
 Jane Ann Wright, Shelby
 Michelle Kay Wunder, Fairborn
 Joseph Mark Wyckoff, Columbus
 Andrea Marie Zag, Reynoldsburg
 Kathleen Annette Zutell, 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 Aslan, Middleburg Heights
 David Edward Bailey, Vermilion
 Terry Dean Bisard, Ravenna
 Robert Adam Briggs, Gahanna
 Scott Allen Dallinga, Akron
 Peter John Davidian, Chagrin Falls
 Mark Daniel DiCocco, Columbus
 Shawn Wylie Doyle, Maynard, MA

Mary Elizabeth Ebner, Columbus
 Stephanie Eann Falbo, Follansbee, WV
 Gino Paul Fina, Columbus
 Gerald Michael Fuerst, University Heights
 Michelle E. Gifford, Mansfield
 Patrick James Gouhin, Ashtabula
 Thomas John Greiner, East Syracuse, NY
 Steven Lee Hermann, Fairborn
 Donald Andrew Hoying, Minster
 Gary Scott Hufford, Marion
 Carl James Ingram, Medina
 Hani Kamhawi, Columbus
 Christopher Allen Kelble, Jamestown
 George Joseph Klupar, Columbus
 Daniel Joseph Kozyro, Franklin, PA
 Gary Ronald Krock, Oregon
 Mark David Kunka, Brimfield
 David Bruce Lanning, Jr., Ridgeville
 Kevin Dale Lavery, Columbus
 Beom No Lee, Seoul, South Korea
 Shawn William Luich, Niles
 Phillip Scott MacLean, Columbus
 Leo Richard Marple, Jr., Salem
 Andrew Paul Marshall, Troy
 Patrick Shawn McClurg, Jackson
 Laura Jean McDavid, Dayton
 Kevin Lee McFadden, Reynoldsburg
 Jeffrey Franklin Miller, Greenhills
 David Peter Misencik, North Ridgeville
 Daniel Edward Molnar, Jr., Columbus
 Scott Alan Olson, Ashland, KY
 John Vincent Perry, Willowick
 Warren Thomas Peters, Marion
 James Colbert Plickebaum, Delaware
 James Wesley Rogers, Jr., Denver, CO
 John Bryan Roos, Strongsville
 Scott Eric Sherer, Vienna
 Robert A. Stonebraker, Newark
 Eric Joseph Strobel, Columbus
 Thomas Alan Stuart, Paulding
 Andrew Gerard Szmerekovsky, Bedford
 Matthew John Tefend, Granville
 Ravuth Theam, Dayton
 Melissa Lee Tincher, Hilliard
 James John Waiter, Orland Park, IL
 Michael Patrick Walsh, Jr., Mentor
 Heather Glorene White, Greenwich
 Scott David Wisler, Fairfield
 Neil Edwin Zimmer, 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 Douglas Borden, Reynoldsburg
 Dennis C. Braun, Chagrin Falls
 Daniel Parker Carrigg, Steubenville
 Dennis Rae Crews, Folkston, GA
 Sean Michael DeWitt, Marion
 Larry A. Hawkins, Jr., Louisville
 Paul Joseph Hickey, Lima

Paul A. Janowicz, Elyria
John Eric Kleberg, Westerville
Michael Darrell Kopf, Columbus
Daniel Richard Lindner, Oceanside, NY
Bradley Joseph Monnin, Versailles
William Charles Perucca, Warren, MI
Thomas Gerard Pyatt, Gahanna
Richard Donald Richardson,
North Olmsted
Matthew John Rypien, Canton
Keith Joseph Thomas, Des Plaines, IL
Floyd Emerson Wicks IV, Columbus
Gary Ray Wilson, Cincinnati

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 Christman, Masury
Richard A. Drushal, Hebron
Keith Kenneth Eggeman, Delphos
Christopher Alan Goda, Lakewood
Andrew John Gonos, 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 Kiehl, Mineral City
Frank John Kizlik, Pataskala
Darrin Leonard Lacheta,
New Philadelphia
James Vincent Lombardi, Canton
Timothy Frank Matheis, West Chester
Md Zaini Md Jai, Melaka, Malaysia
Michael Dale Moore, Woodsfield
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
Daren Dee Cook, Columbus
Brad Eugene Deal, Millbury
Geoff Albert Delisio, Cortland
Steve Patrick Ferguson, Cincinnati
Carolyn J. Gebhart, Columbus
David Thomas Goderre, Cincinnati
Debra Renée Grouls, Toledo
Patricia Ann Haas, Lockport, NY
Joel Ward Harris, Moncton,
New Brunswick, Canada
Robert Scott Hood, Sandusky
Mary Kathryn Hussey, Marblehead
Christine Marie Kaduboski, Ellisville, 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 Nyerges, Bay Village
Jerry Lee Parker, Lima
Renée Michelle Payette, Newark
Frederic John Smith, Perry
Brian Wayne Tornes, Columbus
Jonathan David Webb, Bradenton, FL
Jeffrey A. Wiater, Cincinnati
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 Baumeyer, 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. Buchan, 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 Gertsen, Bowling Green
Stephen Charles Grace, Fairborn
Robert Michael Griffiths, Westerville
John Dennis Hufnagle, Columbus
Brian Evan Hughes, Tiffin
Dale Edward Jablonski, Strongsville

Wendy Kwangrae Jen, Williamsville, NY
Mark Andrew Jobe, Dayton
Scott James Kirner, Sandusky
John Steven Kish, Strongsville
Edward Kowalski, Columbus
Lee Aaron Kramer, Hilliard
Pin Hon Lam, Singapore
Robert Edward Lancia II, Columbus
James Austin Legg, Cincinnati
Douglas Matthew Mair, Columbus
Samuel John McAdow, London
David Lynn McDaniel, Mt. Sterling
Lisa Renae Meadows, Gallipolis
Kenneth Andrew Meidell, Westerville
Frank Steven Mikat, Cincinnati
Jeffrey James Miller, West Chester
Ai Chen Ng, Negeri Sembilan, Malaysia
James Everett Pinkham, Worthington
Christopher Andrew Pour, Troy
Rocky Eugene Ridenbaugh, Beach City
James Wesley Rogers, Jr., Denver, CO
Jonny Curtis Roller, Lima
Vincent Allen Schmidt, Newark
Ranjit Singh, Worthington
David Michael Skalski, Centerville
Allen Randolph Thomas, Columbus
Ann Teresa Troyan, Columbus
Robert Charles Vincent, Columbus
Jay Patrick Vondran, Lima

Bachelor of Science in Electrical Engineering

Michael Gerald Adams, West Chester
Jin Kiong Ang, Bukit Mertajam, Malaysia
Anthony Angana, 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 Cencula, Galena
Ernest Pei-Ching Chen, Columbus
James Roger Clark II, Centerville
Paul Thomas Codispoti, Stow
Steven Milo Connell, Oak Harbor
Christopher Joseph Danson,
Fairview Park
Michelle Marie Elster, Brecksville
Frederick Maurice Ervin IV, Grove City
Mohamad Reza Etfefagh, Tehran, Iran
Robert James Flask, Stow
Thomas Alexander Fote, Dayton
Anthony John Greve, Wapakoneta
Douglas Edward Grinkemeyer, 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

Thomas Carl Henson, Akron
 Ronald Patrick Huck, Vincent
 David Andrew Jablonski, North Olmsted
 Joseph Paul Jendrisak, Akron
 Thomas Lamont Jordan, Columbus
 Michael Allan Kennedy, Columbus
 Gregory Scott Keysor, Sidney
 Stephen Henry Kim, Solon
 Steven Paul Klocinski, Toledo
 Allen Mingren Lo, Whitehall
 Alfonsus Dibianto Lunardi,
 Surabaya, Indonesia
 Andreas Harjanto Lunardi,
 Kediri, Indonesia
 Mourad M'Hiri, Sfax, Tunisia
 John P. Manning, Willoughby
 David Paul Manofsky, Uniontown
 Richard Paul Metzger, Jr., Niceville, FL
 Ronald Anthony Miller, Northfield
 Michael James Moomaw, Painesville
 Daniel Paul Mott, Perry
 Christopher Michael Neman, Akron
 Daniel Robin Newhouse, Utica
 Konstantinos V. Nicolacakis, Akron
 Taras Gregory Olenchuk, Parma
 Michelle Louise Peelle, Groveport
 Kenneth John Pietrzycki, Parma Heights
 Maria Elena Pontones, Columbus
 Claudia Helen Repasky, Mentor
 Warren Alan Richardson, Hilliard
 Kimberley Sue Riedel, Granville
 Edward Lee Riegelsberger, Avon Lake
 Gregory Alan Riley, Troy
 Richard Paul Rotella, Wyoming
 Sanjay K. Sahni, Solon
 Altino Sampaouw, Surabaya, Indonesia
 Tracy Sue Schnell, Milford
 Frank J. Smole, Willowick
 Susan Kay South, Troy
 Barry A. Stelling, Columbus
 Robert Daniel Stoner, Columbus
 Harsh Vidyadhar Supanekar, Columbus
 Steven Andrew Thompson, Worthington
 Tan Tran, Columbus
 David Jon Waung, Akron
 Ayu Widajat, Surabaya, Indonesia
 Gary Michael Wolf, Cincinnati
 Douglas Nye Yarrington, Westfield, NJ
 Gunawan Yuwono, Purwokerto, Indonesia
 Thomas Jeffrey Zarbaugh, Youngstown

Bachelor of Science in Engineering Physics

Kimberly Anne Ciula, Gahanna
 Donald Dair Duvall, Cleveland
 Thomas Michael Foster, Heath
 Michael Raymond Kavaras,
 Mayfield Heights
 Saeed Ahmed Kazi, Placentia, CA
 Daniel Allen Lougen, Mantua
 Raymond Alexander Merk, Eastlake
 David Joseph Milasky, Boardman
 Donald Gregory Ruck, Worthington
 Pang Kent Tan, Johore, Malaysia
 Joel Mason Treadway, Columbus
 John Jude Zajac, Struthers

Bachelor of Science in Industrial and Systems Engineering

Hatta Abdul Rahim, Kuala Kangsar,
 Malaysia
 Jeanna Michele Adams, Findlay
 James William Albert, Dublin
 Edward Patrick Alten, Loveland
 Jeffrey Floyd Bassett, Dayton
 Emmett Whatley Berryman, Berea
 Simon Roger Bhadra, St. Charles, MO
 Teck Chi Cheong, Johor, Malaysia
 Shawn Allan Conrad, Columbus
 Ekbal Daboul, Columbus
 Randall Dean Decker, Mansfield
 William Edward DeLisio, Struthers
 Craig Stephen Fawcett, Beaver Creek
 Darrell Edward Fletcher, Brunswick
 Jill Diane Freedman, Worthington
 Phillip Stuart Hammond, Jr., Akron
 LeAnne Elizabeth Hipp, Sandusky
 James Anthony Jenkins, Pittsburgh, PA
 Jennifer Lynne Kage, 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
 Kelly Ann Majoy, Sandusky
 Keith Allen Marlin, St. Clairsville
 Sharon Denise Kindell McCoy,
 Bedford Heights
 Shaun Alan McGinnis, Tipp City
 Erin Lee McTigue, North Olmsted
 Christine Ann Mitchell, Canal Winchester
 Karen Steensen Mitchell, Newark
 Robert Stephen Moeller, Dover
 Scott Robert Moeller, Sylvania
 Indriyanti Nursalim,
 Bandung, Indonesia
 Kimberly Ann Pulsfort, Dublin
 Tamara Leigh Rearick, Westerville
 Timothy Baker Roach, Columbus
 Jolie May Robinson, Columbus
 Christopher John Rockwell, Columbus
 John Douglas Rudolph, Walbridge
 Kumala Budi Saputra, Bandung, Indonesia
 Darren E. Squires, Derby, KS
 Margaret Katherine Vaxman, Strongsville
 Julie Ann Vermillion, 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, Sylvania
 Steven George Bishel, Reynoldsburg
 Richard Noble Bohon, Worthington
 Kelly Scott Byrd, Ashville
 Wajdi 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. Dagefoerde, Worthington
 Ned Charles Darkow, Akron
 Keith Alan Davis, Lima
 Gerald H. Engelman, Grove City
 James Joseph Finneran, Hilliard
 John Michael Getz, Longwood, FL
 Garrett McKinley Greenlee,
 Washington Court House
 Keith Allen Gunsch, Columbus
 Eric Gustin Hassenpflug, Westerville
 James Lee Hogan, Columbus
 Stephen Harold Hucek, Columbus
 Robert Charles Hughes, Westlake
 Thomas Eric Koenig, Botkins
 Keith B. Kreider, Cheyenne, WY
 Mohammad Ebad Yusuf Krimly,
 Riyadh, Saudi Arabia
 David H. Lohmueller, Reading
 Michael Scott McLeod, Solon
 Donald Lee Miller, Cincinnati
 Mark William Miller, East Liverpool
 Jacquelyn Lee Ann Neidhart, Springfield
 John William Nethers II, Hopewell
 Patrick John O'Neil, Akron
 James Robert Petro, Youngstown
 Jerald Ray Prater, Plain City
 Joseph Aloysius Praela,
 Cleveland Heights
 Timothy Brian Reed, Delaware
 Gregory Lenard Rhoads, Waverly
 Michael Carl Rizzo, Upper Arlington
 Todd Eric Ruck, Columbus
 Roger Franklin Sanzo, Columbus
 Jeffrey Mark Shea, North Ridgeville
 Kevin Daniel Shinnars, Paulding
 Daniel Robert Smith, Ashland
 Sandra Lynne Stonick, Lancaster
 Daniel L. Strohm, New Washington
 Kevin Allen Swank, Hilliard
 Kevin Eugene Sweeney, Columbus
 Phuoc Vang Tran, East Liverpool
 Jeffrey Craig Tufts, Gahanna
 John Nicholas Vitellas, Wintersville
 David Earl Vrabel, Columbus
 Jill Elizabeth Washstock, Perrysburg
 Daniel Lawrence Wieczynski,
 Blacksburg, 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 Cordea, West Chester
 Richard Charles Garmhausen, Canton
 Andrew Wayne Gordon, Pickerington
 Said Karimnamazi, Columbus
 Craig Arthur Lundin, Lima

Gregory Alexander Meszaros,
Plymouth, MI
Charles Lloyd Nunamaker,
Upper Sandusky
Mark Steven Shirley, Mentor
Michael John Vinarcik, Seven Hills
John Louis Zeh, Columbus

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 Barborak, Cambridge
Michael Jude Bruskotter, Ada
Martin Louis Caruso, Baldwinville, 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
Evan Blair Hinshaw, Crown City
James Josef 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 Scarince III,
St. Cloud, MN
John Thomas Schmitt, Delaware
Keith John Schroeder, 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 Aboudiab,
Aljahelie', Lebanon
Kyle Arthur Aebker, Lima
Gregory Allen Ansbro, 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 Dartt, 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 Grotzky, Pickerington
Linda Sue Guest, Freeville, NY
Blake Todd Haines, Hagerstown, MD
Randy Jay Haller, Columbus
MaryLynn Elizabeth Haug, Newton, NJ
Dino M. Herbert, Columbus
Stephanie L. Hough, Miami, FL
Keith H. Hunter, Bettendorf, IA
Shamsul Islam, Vienna, Austria
Ziad Salah-Eddine Kaddah,
Shehim, Lebanon
Brenton D. Kapelski, Sylvania
Ross Jay Kaplan, Fair Haven, NJ
David Michael Kluczniak, 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 Mexicott, Granville
Jacqueline Antoinette Minter, Cambridge
Joseph Francis Moore, Willoughby
Jose Azael Mora, San Antonio, TX
Ernest Efrén Nepomuceno,
Farmington, CT
William Allen Osborne, Centerville
Joseph Daniel Parimuha, Westerville
David L. Powell, Columbus
James Andrew Price, Negley
Michael Paul Rable, Lima
Stephen D. Rowe, Chagrin Falls
Michael Benjamin Sarka, Enon
Brian Allan Seitz, Toledo
Thomas W. Shapaka, Wheeling, WV
Douglas Alan Shover, Knoxville, TN
Melanie Ann Smith, Richfield
Victoria Christine Snively, Lorain
Jon Bevington Stephens, Columbiana
Paul James Sutliff, Stow
Maurice Scott Tedrick, Clear Springs, MD
Jon Edward Wells, Anna
T. Victor Williamson, Bainbridge
Charles F. Wolfe, Toledo
Richard L. Zatta, Washington, PA

Bachelor of Science in Landscape Architecture

Joseph Kenneth Anderson, Akron
Jason Jeffrey Andrew, Bath
Delores Michele Bradley-Houston,
Columbus
John Creighton, Youngstown
Mark Allan Dann, North Fairfield
Tamara Anne Engle, Navarre
Garry Dean Ferrell, Whitehall
Michael Thomas Fite, Georgetown

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 Loewenstein, Cincinnati
Stephen T. Long, Massillon
Richard Joseph Miller, Wheelersburg
Jay William Mitchell, Columbus
Julianne Moskovitz, Lexington, KY
R. Jeffrey Petry, West Carrollton
Scott Jay Pittman, Port Washington, NY
Matthew William Schultz, Oberlin
Peter Charles Sechler, Upper Arlington
Trudy 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 Altieri, Canfield
Debra Sue Ankney, Dover
Amy Jo Barnes, Paulding
Charron Lea Black, Columbus
Lauren Jill Blattner, Beachwood
Cathleen Mary Brady, Columbus
Darcy Lynn Breehl, Bay Village
Melinda Priscilla Bricker, Waldo
Rebecca Lynn Brown, Salineville
Robbin Florence Chan, Euclid
Jennifer Mei Kuin Cheong, Pine Grove
Christine Christopher, Boardman
Linda Kay Coleman, Columbus
Kerri Jo Cook, Shadyside
Cynthia Beth Coup, Westlake
William Henderson Croskey, Cincinnati
Dianna Lee Cryder, Cincinnati
Wendy Ellen Divelbiss, Fredericktown
Karmen Michelle Doby, Findlay
Heather Hastings Driggs, Toledo
Sara Beth Economy, Rocky River
Tamara Lynne Elliott, Bellefontaine
Stanya Michelle Ellis, Delaware
Rosemary E. Erjavec, Galena
Laura Jean Fettig, Columbus
Teresa Marie Griesemer, Columbus
Steven Philip Gutkoski, Port Clinton
Andrea Michele Gutter, Columbus
Leigh Anne Haas, Marietta
Melissa Jo Harbarger, Logan
Suzanne Heringhaus, Ottawa
Heidi Jane Hes, Toledo
Kendra Kay Higgins, Columbus
Beverly Ann Hinton, Wellington
Bethany Renee Horn, Worthington
Brian Augustin Horvath, Westerville
Crystal Anne Hughey, Westerville
Kimberly Anne Ireton, Logan

Carrie Marie Kemper, Columbus
 Elizabeth Ann Koch, Columbus
 Janka Kovac, Columbus
 Karen Susan Kovacic, Westlake
 James Francis Kuchinka, Columbus
 Kimberly Elise Kwait, Toledo
 Wendy Heimann Langer, Pickerington
 Theresa Marie Leugers, Cincinnati
 Jane Louise Lewis, Columbus
 Susan Danette Lewis, Dublin
 Michelle Kay Linscott, Columbus
 Michelle Rae Long, Montpelier
 Dilia Juanita Lopez, Nashport
 Jodi Rachael Lowy, Beachwood
 Brenda M. Lucas, Xenia
 Jodi Sue Lutz, Greenville
 Lonisa Noelle Lybarger, Lima
 Mary Margaret Mahan, Marengo
 Thomas William Mahoney III, Toledo
 Sherri Sue Mann, Galloway
 Joanne M. Marcinko, Uniontown
 Sheri Williams Melody, Youngstown
 Jennifer Laure Miller, University Heights
 Mimi Lynne Munn, Chagrin Falls
 Tsitsi E. Nyambuya, Columbus
 Ann Rita Pagura, Columbus
 Christine Marie Palmentera, Westlake
 Jeanette Marie Potter, Columbus
 Tammyra Lorraine Powers, Waynesville
 Donalyn Marie Pubal, Broadview Heights
 Mollie Colleen Quakenbush, Beaver Creek
 Amy Carol Reynolds, Akron
 Terri Ann Riggle, Berea
 Anne L. Rivelle, Wellsville
 Cynthia Renee Roebuck, Lima
 Angela Christine Rountree, New Carlisle
 Lisa Ann Saggio, Steubenville
 Deborah Lynn Shade, Fairborn
 Margaret Nan Sheldon, Bay Village
 Barbra Ann Sherman, South Euclid
 Pamela Dawn Siegel, Columbus
 Margo Denise Smith, Akron
 Lisa Marie Soltis, Westerville
 Marla Ann Stern, Shaker Heights
 Malinda Ruth Stevens, Springfield
 Susan Marie Stockdale, Dublin
 Christina Joanne Stoutenburg, Columbus
 Gail McDuffie Straus, Columbus
 Jill Ann Swensgard, Massillon
 Sandra Marie Tabor, Columbus
 Lori Ann Todd, Columbus
 Diane Marie Tussey, Milan
 Caryn Leigh Vetter, Toledo
 Suzanne Marie Vishey, Chagrin Falls
 Laura Ann Webb, Euclid
 Elizabeth Ann Weimerskirch, Westerville
 Lorrie Anne Williamson, Findlay
 Marcy Lynn Wolfe, Circleville

Bachelor of Science in Hospitality Management

Linda Carole Baxter, North Canton
 Monica Rae Brewton, Shaker Heights
 Robert Rockwell Chrisman, 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 Karshuk, 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 Cummin, Columbus
 Weston Scott Engelbach, Powell
 Stephanie Marie Fronista, Dayton
 Jennifer Ann Grayzar, Dillonvale
 Susan Lynne Harding, Mansfield
 Thunder Jalili, Mansfield
 Elisa W. Lee, Columbus
 Malcolm Christopher MacLaren, Willoughby
 Anthony Louis Schuster, Lyndhurst
 Sondra Ann Shellman, 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, Elyria
 B.S.Bus.Adm.
 Susan Mary Bajus, 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, Cuyahoga Falls
 B.S. (University of Akron)
 Michael Neil Barnett, Heath
 B.A. (Fordham University)
 Maryanne Becka, Willowick
 B.A. (Notre Dame College)
 David Smith Bence, 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 Black, Worthington
 A.B. (Miami University)
 Margaret Mary Blaha, Columbus
 B.A. (Xavier University)
 Julie Ann Bolender, Norton
 B.S.Bus.Adm.
 Diane Clair Boniface, 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.A. (University of Notre Dame)
 David Allan Bressman, Norwalk
 B.A. (University of Dayton)
 Bryon Christopher Brittingham,
 Columbus
 B.A. (University of Oregon)
 John Bradley Britton, Tallmadge
 B.S.
 Barbara Susan Brown, Kent
 B.A. (University of Akron)
 Chevela Richelle Brown, Memphis, TN
 B.A. (Hampton University)
 Lori Ann Burrington, Monroe, MI
 A.B. (University of Michigan)
 Kelly Marie Burton, Youngstown
 B.S.Nurs.
 Neil Patrick Calvin, Columbus
 B.S. (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 Clifff 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.S.Agr.

Robert J. Creamer, Ridgefield, CT
B.S. (Old Dominion University)

Vincent Anthony Culotta,
Mayfield Village
B.S. (Bowling Green State University)

Ruth Angela Cunningham,
Moundsville, WV
B.A. (Wheeling College)

Barbara Naumoff Danford, Orrville
B.S.Food Sc.

Timothy James Dawe, Lima
B.A.

Marilyn Kuhl Day, Milan
B.S.Nat.Res.

Elizabeth Ann Deer Harter, Huron
B.A. (Hillsdale College)

Gregory Edward Demske, Oxford
B.S.Bus.Adm. (Miami University)

Christopher M. DeVito, South Bend, IN
B.B.A. (University of Notre Dame)

Timothy Robert DeWitt, Lyndhurst
B.S.E.E.

Melody Anne Dugic, Newton Falls
B.A. (Marquette University)

Patrick Mark Dana Dukes, Youngstown
B.A. (Youngstown State University)

Price Daren Finley, Columbus
B.A. (Capital University);
M.B.A.

Paul W. Flowers, Wadsworth
B.A. (University of Kentucky)

John Paschall Gamlin, Cottage Grove, IN
B.A. (Vanderbilt University)

William Mitchell Gantz,
West Bloomfield, MI
B.A. (University of Chicago)

Thomas Edward Geyer, Columbus
B.B.A. (University of Notre Dame)

Scott David Goldberg, Solon
B.B.A. (University of Michigan)

Antionice Goodson, Columbia, MD
B.S. (Indiana University)

James David Grady, Columbus
B.S.Bus.Adm.

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)

Melissa Lynn Hagen, Middletown
B.S. (University of Kentucky)

Paul Allen Hager, Franklin
B.S.Bus.Adm. (University of Tennessee)

Richard Leo Hahn, Kent
A.B. (Princeton University)

Kimberley Kae Haines, Grove City
B.S. (Franklin University)

Sean Patrick Harter, Athens
B.B.A. (Ohio University)

Robert Scot Harvey, Akron
B.A. (Syracuse University)

Lynn E. Hathaway, Steubenville
A.B. (Youngstown State University)

Bridg Ellen Heid, Fremont
B.A.

Patricia Ann Heil, Coon Rapids, MN
B.A. (Iowa State University)

Robert Eldon Henke, Alliance
B.A.Jour.

Regina Lynn Hilburn, New Albany
B.A.

Kimberly Newsom Hix, Frazeesburg
B.S.Bus.Adm. (University of Kentucky)

William Douglas Hoffman,
North Olmsted
B.S. (Miami University)

John William Hopper II, Columbus
B.A. (Mount Union College);
M.S.W., M.A.

Ann Muire Hotz, Marion
B.A. (Ohio Dominican College)

Annette Marie Houck, Monroeville
B.S. (Allegheny College)

Randy Edward Human, Galion
B.S. (Ohio Northern University)

Renee Ann Infante, Poland
B.A. (Miami University)

Daniel Eric Izenson, Dayton
B.S. (Indiana University)

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);
M.B.A.

Jeffrey Hall Jordan, Columbus
B.A.

Jeffrey Jonathan Joyce, Springfield
B.S.M.E.

John Andrew Kastelic, Euclid
B.S. (University of Notre Dame)

John Sheldon Kendall, Chicago, IL
B.E.E. (University of Dayton)

Julia Suzanne Kennedy, Fort Wayne, IN
B.S. (Indiana University)

Robert Samuel Kennedy, Columbus
B.S. (Youngstown State University)

Marjorie Lynne Keys, Lansing, MI
B.A. (Boston University)

Daniel Alan Klein, Dayton
B.A.

Karla L. Klotz, Columbus
B.S.Bus.Adm.

Thomas Gerard Kovach, Garfield Heights
B.A. (Kenyon College)

Barbara Louise Kozar, Columbus
B.S.Al.Hth.Prof.

John Francis Kramer, Shaker Heights
B.A. (Georgetown University)

Constance Marie Kuns, Waterville
B.A. (Bowling Green State University)

Peter Nels 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
B.A. (University of Michigan)

Dean Matthew Lenzotti, 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 Maier, Columbus
B.A. (Saint Lawrence University);
M.A.

Carolyn Kay Matheson,
Broadview Heights
B.S.J. (Ohio University)

Judith Ellen McCarroll, 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 Mekar, 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)

William Elliott Nakasian, Eastlake
B.S. (Case Western Reserve University)

Susan Veronica Naraine, Cincinnati
B.S. (University 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.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 Peltz, Shaker Heights
B.A. (Tufts University)

David Andrew Pfarrer, 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 Lia 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. Sowards, 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)

Julie Ellen Squire, Oberlin
A.B. (Goucher College)

Joseph William Stadnicar, Avon Lake
B.S.Bus.Adm. (John Carroll University);
M.B.A.

Audrey Elizabeth Stahl, Mentor
B.A. (Kent State University)

John Dale Stanford, Mt. Pleasant, MI
B.S.W. (Central Michigan University)

Jane Elizabeth Steiner, Canton
B.S. (Auburn University)

Melissa Anne Stewart, Mt. Vernon, KY
B.A. (Cumberland College)

Melissa Karen Stull, Columbus
B.A. (Miami University)

Jeffrey Stuart Sutton, Gahanna
B.A. (Williams College)

D. Casey Talbott, Akron
B.A.

Terre Lynne Vandervoort, 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
B.A. (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)

Gail Marie Zalimeni, Ashtabula
B.B.A. (Ohio University)

Melissa Lynn Zox, Columbus
B.S. (Northwestern University)

College of Medicine

Dean: Manuel Tzagournis, M.D.

Doctor of Medicine

Charlotte Marie Agnone, Athens
B.S. (Ohio University)

Elizabeth Ann Altenberger, Lima
A.B. (Miami University)

Jessica Christine Arluck, 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 Bomgaars, 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 College)

Archibald Irwin Carson, Cincinnati
B.S., Ph.D. (University of Cincinnati)

Sunita 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)

Sharon 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 Eiting, Versailles
B.S. (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 Fouras, Westerville
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Robin Anita Frye Fox, Carlisle
B.S. (Wright State University)

Amy Ann Frankowski, Toledo
B.S. (University of Toledo)

Paula J. Lyne 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
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Steven Alan Galun, South Euclid
B.S.

Jeffrey Owen Galvin, Bay Village
B.A. (Miami University)

Debra A. Gamertsfelder, 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
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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 Immergluck,
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B.A. (Northwestern University)

Naveed Hasnain 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 Kelch, Mentor
B.A. (College of Wooster)

Faron James Kemp, Alpena, MI
B.A. (Spring Arbor College)

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B.S. (University of Cincinnati)

Maureen Elizabeth Kennedy, Toledo
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Paul Richard Kenworthy,
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Hooman Khabiri, Columbus
 B.S.

Rafik Mounir Khalil, Akron
 B.A. (Kent State University)

Steven Howard Kimberly, Columbus
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Robert Christian Klamar,
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 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
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Donna Kwong, Worthington
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Steve Pai-hsun Lee,
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 B.S. (University of California at Los
 Angeles)

John Michael Lepi, Wakatomika
 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
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Mitchell Todd Massie, Ironton
 B.S.

Nicholas Paul Mastro, Steubenville
 B.S. (Bethany College)

Craig Alan McElderry, 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.

Allen Edward Meske, Oconomowoc, WI
 B.S. (University of Miami)

Christopher Scott Meyer, Huber Heights
 B.S.

Mary Ellen Meyer, Ann Arbor, MI
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John Michael Miller, Dayton
 B.S.

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 B.S. (University of Toledo)

Michael James Mueller, Pittsburgh, PA
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Victoria Marie Musholt, Rogers, AR
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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
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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 Peykoff, 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)

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David Jay Portman, Columbus
 B.A. (Northwestern University)

Miriam Davidson Portman, Dayton
 B.S. (University of Michigan)

Kathleen Quealy, Cleveland
 B.S. (Notre Dame College of Ohio)

David Ray Ralston, Springboro
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Sumita Ram, Brecksville
 B.A. (College of Wooster)

Zhanna Rapoport, Cleveland
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Mary C. Revolinsky, Elyria
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Stephen W. Rex, Columbus
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Chris Allen Rhoades, Van Wert
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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 Schulski, Wooster
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Leslie Jon Schwendeman, 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 Sifri, 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 Spech, Cleveland
 B.S.

Gloria Vida Staples, Chicago, IL
B.S. (Elmhurst College);
M.S.

Melanie D. Stempowski, Amherst
B.A. (Oberlin College)

John Bernard Stengle, Toledo
B.S. (University of Notre Dame)

Thomas Sandner Stewart, Middletown
B.A. (Cornell University)

Lori Ann Stiefel, Columbus
B.S.

Cecilia Marie Sunnenberg, Cincinnati
B.A. (Wittenberg University)

Brian James Swansiger, Cleveland
B.S. (Youngstown State University)

David Allen Sybert, Ravenna
B.S.

Kathleen Lou Tarr, Akron
B.A. (Mount Vernon Nazarene College);
Ph.D.

Anne Taylor, Kettering
B.S. (Denison University)

Jerry R. Thomas II, Canton
B.S.

Melanie Kay Tugaoen, Salineville
B.S.

Russell Lee Van Ord, Granville
B.S. (Allegheny College)

Albert Victorio Vargas, Norwalk
B.S. (University of Notre Dame)

Paul Marino Vespa, Youngstown
B.S.

Douglas John Virostko, Cleveland
B.S.

David William Wendel, Cincinnati
B.S. (Vanderbilt University)

Brett Alan Wheeler, Westerville
B.S. (Eastern Oregon State College)

Mark Spencer Wilcox, Pittsburgh, PA
B.S. (Pennsylvania State University)

Noel Robert Williams, Deerfield, IL
B.A. (Emory University)

Lisa K. Wise, Vandalia
B.S. (University of Dayton)

Mark Albert Workman, Ashland
B.A. (College of Wooster)

Elsie Eh-She Wu, Napoleon
B.S.

School of Allied Medical Professions

Bachelor of Science in Allied Health Professions

Kim Danielle Allen, Middleburg Heights
Brooke Lee Barger, Delaware
Patricia Jean Baumann, Elyria

Jill Marie Benner, Solon
Traci Bernabale, Lorain
Jean Marie Birmingham, Highland, IN
Ronele Theresa Bolton, Beavercreek
Michael Roy Boone, Lynchburg
Angela Marie Bornhorst, Fort Loramie
Kelly Ann Brinkman, Bucyrus
Cynthia R. Brock, Tulsa, OK
John Micheal Brown, Wellsville
Renee J. Brown, Sardis
Melissa Ann Bruhn, Columbus
Tracy Lynn Bryan, Columbus
Todarieu DeAndré Buchanan,
Milwaukee, WI

Teresa Fay Butcher, Minford
Stephanie Kay Carter, Gallipolis
Tamara Ann Caruso, Seven Hills
James Glenn Castillo, Jr., Perry
Jeana Diann Caudill, Kettering
Carla Loren Champion, Northwood
Karen Man Chan, Richmond Heights
Robert Jirou Chestnut, Columbus
Shawna Louise Clarke, West Chester
Stephanie Ann Conley, Mentor
Dianne Marie Cook, Westerville
Patricia Eileen Coz, Kent
Daniel Brian Crusey, Sidney

Karie Jean Dasenbrock, Cincinnati
Amy Jane Davis, Lewistown
Vicky Ann Davis, Amsterdam
Geri Kay Ditolla, Katy, TX
Lisa Darlene Drescher, Lincolnshire, IL
Brenda Marie Eck, Reynoldsburg
Lynette Renee Engman, Beavercreek
Michele Lynne Evans, Centerville
Belinda Ann Faverty, Massillon
Pamela Lynn Finchum, South Charleston
Karen Lee Finkbeiner, Birmingham, MI
Kathleen Mary Fitzgerald,
Bethel Park, PA

Erika Ann Fleck, Youngstown
Laura Marie Fogt, Bellefontaine
Lucinda Lynn Ford, Lancaster
Carol Marie Friend, Wakeman
Steven Paul Getch, Boardman
Julie Lynn Gillaugh, Centerville
Stacey Lynn Ginger, East Palestine
Kathleen Ann Gonda, Youngstown
Kelly Ruth Goodale, Painesville
Deborah Jane Grimes, Chillicothe
Mark Anthony Grogg, Mansfield
Joseph Thomas Habegger, Ridgeville
Mayme Elizabeth Harrigan, Urbana
Joseph Kent Harrison IV, Middletown
Sherry Driggers Harrison, Opp, AL
Susan Selesté Hartsel, Elyria
Susan Carol Hatem, Columbus
Kathleen Andrea Havas, Youngstown
Barbara Ann Hemker, Delphos
Timothy Joseph Hiler, New Washington
Kristin Lynn Hilz, Toronto
Tonya Marie Hines, Dayton
Melissa Rae Hixon, Urbana
Cynthia Ann Hornfeck, Akron
Clifford Joseph Horstman, Springfield
Christine Lee Hughes, Cincinnati
Melissa Anne Ingmire, Columbus
Mary Ann Johnston, Dayton
Brionn Rolens Jones, Springfield, IL

Julie Ellen Jordan, Cincinnati
Annemarie Kaiser, Xenia
Teresa Michelle Keathley, Groveport
Christal Renee Kent, Westerville
Jean Lynn King, Tiffin
Lisa Joy Kodish, Akron
Amy Lynn Kotterman, Nevada
Lisa Dawn Kress, West Liberty
Peggy Lynn Krug, Bainbridge
Adrienne Anne LaBoda, Fairview Park
Renita Ann Lamatrice, Steubenville
Gina Palaganas Lapurga, Parma
Yolanda Marie Lawas, Cleveland
Margo Elaine Lawson, Hamilton
Tonya Lynn Lawson-Howard, Columbus
Thuy Thi Le, Marion
Martha Jackson Lewis, Columbus
Pamela J. Little, West Jefferson
Jill Christa Manson, Tallmadge
Kevin Lee Marlin, St. Clairsville
Frances Kay Maurer, Columbus
Mark Allen McGee, Stow
Lynn Marie Meier, Maria Stein
Sandra Hahn Mentzer, Westerville
Kathleen Agnes Middendorf,
Fort Loramie

Jacqueline McLoda Miller, Wellington
Loretta Sue Miller, Marysville
Kimberly Sims Mills, Columbus
Carol Ann Montgomery, Akron
Carla Nadeja, Hubbard
Linda Sue Naramore, Jefferson
Kelly Danielle Nelson, Bellefontaine
Donald Paul Newkirk, Jr., Peebles
Jonathan Kemp Nugent, Tiffin
Suzanne Louise Orantek, Amherst
Sean Patrick O'Reilly, North Canton
Steven Lee Parks, Delaware
Lisa Mary Peiffer, Tiffin
Jennifer L. Pequignot, Fort Jennings
Anthony James Polcyn, Gallipolis
Rebecca Anne Pompay,
Middleburg Heights
Laura Marie Poremba,
Rockaway Township, NJ
Nancie Jilane Predmore, Baltimore
Richard Howard Price, Jr., Youngstown
Linda Kay Puterbaugh, West Milton
Justine Lee Raybuck, Mentor
Brian Keith Redmond, Sunbury
Susan Elise Rhodes, Shelby
Dirck Anthony Rilla, Pittsfield, MA
Cara Janine Risner, Findlay
DeLana Jean Robbins, Thornville
Rusty Jo Robinson, Broadview Heights
Kelly Sue Robison, Conneaut
Rebecca Marie Ross, Dennison
Ruth Ellen Sagula, Bedford
Leona Renee Sandman, Cincinnati
Michelle Marie Schulte, Brecksville
Lynn Marie Sexten, Solon
Jill Denise Simon, Cleveland
Anne Therese Spadaro, Bedford
Deborah Lynn Spahn, Maineville
Amy Lynn Stammen, Coldwater
Lisa Yuvett Stephens, Cincinnati
Paul Richard Swartz, Clintonville
Mary Katherine Theiss, Middletown
Jennifer Hicks Thompson, La Rue

Thomas F. Torres, Cleveland
 Maria Liberty Troullos, St. Clairsville
 Mary Margaret Turner, Mansfield
 Vicki Lynn Volkert, Hicksville
 Kimberly Ann Walbeck, Peninsula
 Diane Elizabeth Waltman, Baltic
 Cynthia Deean Welker, Bolivar
 Ann Marie Whelan, Columbus
 Elizabeth Ann Whiteley, Akron
 Jon Dennis Wigtill, Columbus
 Andrea Kay Williams, Warren
 Lisa Marie Wilson, Carroll
 Melinda Alice Wolfe, Belpre
 Renee Sue Woodward, Columbus
 Deanna Lynn Wyrrie, New Philadelphia
 Kelly Rae Yannucci, Stow
 John August Zengel, Centerville
 Joann Zorman, South Euclid
 Tonya Ann Zwolenik, Strongsville

**Certificate of Post Baccalaureate
 Circulation Technologist**

Seetharaman Ananth Krishnan, Columbus
 M.D. (Grant Medical College,
 Bombay, India)
 Linda Elizabeth McLean, Centerville
 B.S.Agr.

**Certificate of Post Baccalaureate
 Medical Illustrator**

Lee Michael Mejia, Columbus
 B.F.A. (Bowling Green State University)
 Luis Felipe Passalacqua, San Juan, PR
 B.S. (College of the Sacred Heart,
 Puerto Rico)

**Certificate of Study in Physical
 Therapy**

Patricia A. Huddle, Worthington
 Bachelor's (Cortland State University);
 M.A. (Central Michigan University)

College of Nursing

Dean: Carole A. Anderson

Bachelor of Science in Nursing

Mary Kathleen Ahern, Springfield
 Angela Sue Albaugh, Canton
 Ann P. Aldana, Brecksville
 Tonja Ann Azadpour, Columbus
 Stacey Lynn Baiocco, Yorkville
 Kimberly Shawn Bankes, Lancaster
 Denise Hurse Barton, Gahanna
 Cynthia Suzanne Baumann, Dublin
 Cheryl Grace Baxter, Hilliard
 Cynthia Vee Beck, Mansfield
 Arturo Delano Beckles, Panamá, Panamá

Monica Gayle Bibart, Marion
 Laura Kathleen Bolster, Euclid
 Melinda Kay Bradford, Galloway
 Cynthia Diane Britton, Sulphur Springs
 Debra Sue Brown, Whitehall
 Deborah Ann Burroughs,
 Broadview Heights
 Danielle Marie Carroll, Westlake
 Annette Lynn Casey, Worthington
 Barbara Ann Coberly, Canton
 Maria Teresa Cottrill, Groveport
 Sarai 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 Denise Eckles,
 Washington Court House
 Hope Nadine Eisen, Pepper Pike
 Kathy Gabriele 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 Heitmeyer, Ottawa
 Julie Ann Hemsy, Fairborn
 Suzanne Marie Hofsteter, Canton
 Karla Kay Hutchens, Middletown
 Randy Keilich Ingmire, Columbus
 Angela Lee Ireland, New Paris
 Andrea Karas, Struthers
 Saundra Jo Keith, Mansfield
 Tammy Renee Kill, Spencerville
 Steven Joseph Kuhlman, Ottawa
 Mary Katherine Kuns, Lorain
 Joyce N. Larrabee, Columbus
 Nancy 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 McTaggart,
 State College, PA
 Julie Rochelle Miller, North Canton
 Rebecca Jean Mottl, Athens
 Jennifer Lee Mounts, Ashland
 Laurie Renea Myers, Galloway
 Carolynne Neuman, Sandusky
 Jill Emma Neuenschwander, Wauseon
 Pamela Kay Niese, Ottawa
 Nancy Lynn Oberer, North Olmsted

Lisa LaDonna Oden, Mansfield
 Suzanne Marie Pace, Plain City
 Jill Christine Palazzo, Lorain
 Jennifer Lee Parsons, Worthington
 Linda GERALYN Pinzone, Solon
 Rebecca Sue Pitcock, Granville
 Jennifer Kay Pollock, Columbus
 Beth Ann Rakestraw, Ontario
 Lisa Anne Rapp, Columbus
 Mary Ellen Rausch, Columbus
 Suzanne Marie Reese, Akron
 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 Shairba, Grafton
 Kathleen Marie Shininger, Delta
 Sherri Ann Snoad, Grove City
 Andrea Mary Spendal, Willoughby Hills
 Tammy Jo Sroufe, Columbus
 Cheryl Lynn St. Clair, Eastlake
 Deanna Lee Stillman, Fairview Park
 Susan Anne Sullivan, Kettering
 Susan Elizabeth Sullivan, Columbus
 Sharinne Alane Summers, Huntsville, AL
 Deborah Lynne Taylor, Milford
 Stephanie Jill Tennant, Bellefontaine
 Steven John Theohares, Mansfield
 Cynthia Lee Thill, Columbus
 Tammy Lynn Wallick, Dover
 Michele Renee Wanat, Millersburg
 Susan M. Wank, Leipsic
 Angela Ruth Weber, Hilliard
 Sue Alice Weihrouch, Woodville
 Kathleen Marie Werling, Vandalia
 Karen Kathleen White, Whitehall
 Michele Leigh White, Columbus
 Stephanie Diane Wiener, Cleveland
 Kimberly Jean Wiesenmayer, Oxford
 Shauna Marlene Williams, Youngstown
 Mary Lynne Winningham, Columbus
 John Donald Wolford, Columbus
 Estell Jane Wujick, Newton Falls
 Michelle Zelina, Campbell

College of Optometry

Dean: Richard M. Hill

Doctor of Optometry

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 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
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 Jeffrey Heath Blunden, Columbus
 Elva Marie Bowman, Harrisonburg, VA
 B.A. (Cedarville College)
 Jilllynn Fillers Bruner, Arcanum

Brian Padraic Burke, Kettering
 Henry Joseph Carter, Concord Township
 Lisa Marie Ciccarelli, Akron
 Ralph Cordero, Lorain
 B.S. (Kent State University)
 Henry George Covetta,
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 B.S.
 Lawrence Raymond Custer, Brook Park
 B.S. (Cleveland State University)
 Timothy Fisher Dawson, East Liverpool
 B.S.
 Karen Ann Delslerone, Pittsburgh, PA
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 Jeffrey Hugle Doty, Hilliard
 Kathryn Elizabeth Fenton,
 Mayfield Heights
 Mark Dwain Fenton, Newcomerstown
 David Edward Fierce, Columbus
 Russell Shetler Fillmore, Cuyahoga Falls
 B.A.
 Michael Raymond Fryer, Ontario, NY
 B.A. (College of Wooster)
 John Joseph Garrity III, Cincinnati
 B.A. (University of Notre Dame)
 Jeffrey James Genos, Champion
 James Michael Gorrell, Tallmadge
 B.A. (Kent State University)
 Brenda L. Habenicht, Bellaire
 Beth Ann Henderson, Columbus
 B.A. (Miami University)
 Penny Kay Hoch-Jones, Rebeck, PA
 B.A. (Susquehanna University)
 Keith Alan Huelsman, Dayton
 Norma Jean Jesse, Valley City
 B.S. (State University of New York
 College at New Paltz)
 Mark James Jones, Grelton
 B.A. (University of Toledo)
 Kristine A. Kerestan, Belle Vernon, PA
 B.S. (Indiana University of Pennsylvania)
 Robert B. Kreuter, Zanesville
 Julie Ann Long, Columbus
 B.S. (Bowling Green State University)
 Joseph Thomas Marra, Salem
 Brian Edward Mathie, Louisville
 James Andrew McDonel, Cincinnati
 Craig Charles McSurdy, Springfield
 Diana Lynn Milheim, Salem
 Richard Allan Miller, Columbus
 B.S.
 Ronald Timothy Miller, Akron
 B.A. (Miami University)
 John Christopher Mullins, Lorain
 B.S. (Wittenberg University)

Matthew Earl Newton, Roanoke, VA
 B.S. (Virginia Polytechnic Institute and
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 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 Aboumeri, 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 Hupp, Newark

Colleen Marie Kennedy,
 London, Ontario, Canada
 Charlotte Anne Kenreigh, Salem
 JoAnne Marie Lastovka, Seven Hills
 Cristina Rose Liberati, Niles
 Richard William Mason, Mt. Vernon
 Lisa Renee Massic, Ravenna
 Carol Ann McCowan, Sheffield
 John Steven McDavid, Fairborn
 Sharon Lorena McLaughlin, Woodsfield
 Susan Ann Miller, Portage
 Joseph Mirisola, Columbus
 Christina Lynn Morris, Harrisville
 Cuong Michael Nguyen, Archbold
 Sandra Lee Opperman, Copley
 Karen Ann Pallone, Brook Park
 Barry Lee Pamula, Northfield
 Kevin David Pete, Canton
 Susan Renee Raber, Strasburg
 Daniel Joseph Resetar, Ellicott City, MD
 Tenna Lynn Rhonemus, Arlington
 Albert Joseph School, Akron
 Jill Rene Slabach, Mansfield
 Donald Lawrence Sullivan, Columbus
 Brent Joseph Swipas, Warren
 Michelle Lynn Tolley, Camden
 Victoria Ukmay, Euclid
 Josephine Ruth Ulrey, Columbus
 Kathy Lynn Veselenak, Cambridge
 Lucinda Joy Wade, Apple Creek
 Guy Warren Wagner, Galion
 Barbara Sue Walters, Cleveland
 David Martin Weinstein, Massillon
 Erika Lynne Wenzel, Columbia Station
 John Allen Wood, Reynoldsburg
 Tod Alan Workman, Bolivar

College of Social Work

Dean: Richard E. Boettcher

Bachelor of Science in Social Work

Kimberlee Ann Bauer, Powell
 Stephanie Lynn Bean, Columbus
 Sheryl Lynn Board, Heath
 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
 Rosemarie Dougherty, Columbus
 Jennifer Ann Duffy, 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
 Lisabeth Dianne Feaster, Columbus
 Monica Dionne Ferguson, Fostoria
 Karin K. Garbe, Columbus
 Julia Ann Gray, Raleigh, NC
 Joseph Tilford-Lee Greene, Dayton

Brenda Kay Griffith, Prospect
 Patricia Ann Griffith, Circleville
 Melinda Ann Grote, Columbus
 Martin Francis Hammar, South Euclid
 Alison Leigh Hamrick, Columbus
 Holly Elizabeth Harris, Mt. Gilead
 Sherri Lynn Hessel, Fairlawn
 Holly Ann Hobzek, North Royalton
 Michele Carmela Horek, Worthington
 Emory Jay Kennedy, Jacksonstown
 Heather Lee King, Indianapolis, IN
 Jodi Lee Kohhorst, Columbus
 James Thomas Mallory, Parma
 Michelle Renee Marteny, Carrollton
 Linda Diane Maxwell, Westerville
 Susan Marie McVey, Clarksville
 Terri Marie Miller, Fairfield
 Jennifer Lynn Nedwick, Elyria
 Heather May Peterman, Johnstown
 Thomas Robert Peters, Columbus
 Christine Maree Philips, Hamilton
 Kathleen Louise Pierce, Mt. Gilead
 Rose Lorraine Powers, Delaware
 Lisa Anne Rowekamp, Wooster
 Melanie Rose Rubin, Shaker Heights
 Theresa Saada Rushay, Columbus
 Debra Ellen Sapp, Danville
 Robert Marilla Scott, Columbus
 Joyce Ann Seaburn, Mt. Gilead
 Melissa Frances Sherman, Mentor
 Darla Ann Short, Troy
 Julianne Renee Smeck-Miller, Baltimore
 Tracie Lynn Smith, Lewisburg
 Toni Marie Spetrino, Chesterland
 Lisa Colleen Spivey, Columbus
 Alicia Rene Sullivan, Columbus
 Christina Sue Tatman, Columbus
 Donna Lee Taube, Marion
 Gil Louise Taylor, Columbus
 Nancy Anne Thomsen, Newark
 Tracey Michael Triplett, Darbydale
 Karen Susan Umbarger, Mansfield
 Stacey Jo Vetter, Wapakoneta
 Cynthia S. Warthen, Newark
 Jennifer Lynn Weber, Springfield
 Jill Robin Weissman, 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 Bice-Bentley, Columbus
 B.S. (Iowa State University)
 Michael Steven Blotter, Cincinnati
 B.S. (Brigham Young University)
 Ruth Amelia Boll, Wheelersburg
 B.S. (Ashland College)
 Kathleen Marie Booth, Moundsville, WV
 B.S. (West Virginia University)
 Wendi Lee Brann, Hiram
 B.A. (Hiram College)
 Stephanie Marie Breslin, Centerville
 B.S.
 Corrine S. Brown, Leigh, NE
 B.S. (University of Nebraska-Lincoln)
 David Lee Brown, Bloomingdale
 Rebecca Bock Burket, 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 Chabora, 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 Cummins, 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 Demby, Grafton
 B.A. (Miami University)
 Ann Marie DiFrancesco, Bristolville
 B.S.
 Ann Elizabeth Essman, 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.Pharm.
 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 Hardman, Silver Spring, MD
 B.S. (University of Maryland)
 Pamela Sue Harrold, Heath
 B.S. (Mount Union College)
 Patricia K. Henning-Miller,
 Plattsburgh, NE
 Julie Ann Hockman, Columbus
 B.A. (Miami University)
 James John Honigford, Coldwater
 B.S.Agr.
 Allen Reed Hughes, Hamilton
 B.A. (Miami University)
 Herbert Allen Hulls, Lower Salem
 Keith Edward Huston, Richmond Heights
 B.S. (Heidelberg College)
 Stephen Joseph Kerpasack, 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 Gerard Korow, Akron
 B.S. (University of Akron)
 Debra Lynn Kuklinski, Madison
 B.S.Agr.
 Mark Steven Kurtzman, Bellbrook
 B.S. (Heidelberg College)
 Cynthia K. Lightner, Maxwellton, WV
 B.S. (Virginia Polytechnic Institute and
 State University)
 Carolyn Pories Lincoln, Shaker Heights
 B.S.Nat.Res.
 James Edward Lofgren, Louisville
 Carmen Luisa Lucena-Shaw,
 Guaynabo, PR
 B.S. (Pennsylvania State University)
 Ann L. Manharth, Milford
 Dawn Lavelly Martin, Clarion, PA
 B.S. (Pennsylvania State University)
 Warren Guy Maurer, Toledo
 B.S. (Cornell University)
 Mark Joseph McCloskey, Gahanna
 Marilyn Marie McCort, 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
B.S.Agr.

Jodi A. Londot Moorman, Utica
B.S.Agr.

Beth Ann Morrell, Clinton, MD
B.A. (Warren Wilson College)

Anne Jeanette Murphy, Canfield

Todd Allen Nash, Columbus
B.A. (Kenyon College)

Robert Louis Nathan, Cincinnati

Iva Lynn Nusbaum, Columbus
B.A. (Wittenberg University)

Wendy Lynne O'Desky, Toledo
B.S.Agr.

Nancy O'Neil, Akron
B.S. (University of Akron)

Toni Anita Onorato, Findlay
B.A. (Findlay College)

Imre Laszlo Orosz, Lakewood

Elias Emanuel Ferris, Trenton, NJ
B.S. (Rutgers University)

Susan Christine Randall, Worthington

Roger Scott Redman, Wooster
B.S.Agr.

Susan Joanne Reed, Waterville

Franklin John Reichert, Jr., Goshen
B.S. (Northern Kentucky University)

Craig Michael Ritchie, St. Louis, MO
B.S.Nat.Res.

Robert J. Rizzitano, Bedminster, NJ
B.S. (Rutgers University);
B.S. (Carnegie-Mellon University)

Brad Warren Roll, Kingston

Jeffrey William Santee, Wadsworth
B.S.Agr., M.S.

Thomas Sarosy, Chardon

Kelly Jean Scott, Wexford, PA
B.S. (Pennsylvania State University)

Susan Elizabeth Seitz, Toledo
B.S.Agr., M.S.

Ann Margaret Selby, Newark
B.S.

Susan Jane Seman, Ravenna

James Timothy Sexton, Celina
B.S.Agr.

Susan Elizabeth Shibley, Westerville
A.A.S., B.S.Agr.

Heidi Hottinger Slemmer, Columbus
B.A. (Kenyon College)

Donald Alan Sloat, Columbus
B.S. (Pennsylvania State University);
M.S.

Mia Jennifer Slotnick, Warren, NJ
B.S. (Rutgers University);
M.S. (University of New Hampshire)

Alice Keffer Smith, Henderson, NV
B.S. (University of Arizona);
B.S. (University of Nevada-Reno)

Paul Jeffrey Smith, Greenland, NH
B.S. (University of New Hampshire)

Regina Marie Strauch, Cockeysville, MD
B.S. (Loyola College)

David James Studzinski, Dayton
B.S. (Wright State University)

Donna Jeanne Tanzella, Newark, CA
B.S. (Montana State University);
M.S., Ph.D. (University of
California-Berkeley)

Lauren Marie Tatalick, Chesterland
B.S.

Steven Bruce Thompson, Dublin
B.S. (Xavier University)

Jerry James Upp, Gering, NE

Amy Katherine Valentine, Lincoln, NE
B.S., M.S. (University of
Nebraska-Lincoln)

Beth Ann Vesco, New Philadelphia
B.S. (Walsh College)

Nancy Lynn Vollmar, Toledo
B.A. (University of Toledo)

Julie Ann Volquardson, Crofton, NE

Jean Marie Wardell, Wayne, NJ
B.S., M.S.

Michael Leslie Wasmer, Fallston, MD
B.S. (Loyola College)

Nelson DeWayne Weaver, Holmesville
B.S. (Youngstown State University)

Beth Francis Weisberger, Akron
B.S. (Miami University);
M.S. (Auburn University)

Alexia Wilde, Marietta
B.S. (Cornell University)

Daniel Jay Wolverton, Lincoln, NE

Lisa Marie Woods, Bridgeport, WV
B.S. (West Virginia University)

Niki Wyzenbeek, Cincinnati

Sylvia Sue Zinni, Rayland

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 Joanne 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
Sharon Elizabeth Heinrich

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Linguistics

María 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 Shtrom

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

Parul Kirit Kapadia
Natalie Kay Wolfe

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Speech and Hearing Science

Kim Elaine Birkemeier

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

Alfonsus Dibianto 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 Hogsette
Robert Gerard Hunt
Lynn Marie Krise
Jessica Lynn Montgomery
Kevin Dwayne Morris
Roy Lee Nalazek
Bonnie Kay Owens
Andrea Maerie Page
Anjeanette 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 Angsana
Allen Francis Bach
Christine Renee Ball
Ellen Myers Bargar
William Roy Baumel
Marcus James Bishop
Alison Traci Blank
Debra Sue Brown
Garry Cameron Brown
Kevin Lee Burgess
Ewa Teresa Byczek
Matthew Robert Carbonara
Spero R. Cataland
Lois Kay Clouse
Shawn Allan Conrad
David William Cook
Cathilu Creviston
Michael David Doel
Jacqueline Dusey
Susan Denise Eckles
Kari Anne Erlewine
Christina Beryl Falkener
Pamela Lynn Finchum
Kelli Faith Florman
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 Selesté Hartsel
Wesley Darrel Helmuth
Susanne Sutphen Herb
Leanne Elizabeth Hipp
Jean Marie Hoffer
Gary Scott Hufford
Edward L. Johns
Jason Herrin Jones
Hani Kamhawi
Deborah Anne Keenehan
Stephen Joseph Kerpsock
Bradley Paul Knight
Mark David Kunka
Robert Edward Lancia II
Marjorie Robin Landever
Joyce Larrabee
Douglas Patrick Lawler
Gina Kaye Lehr
Anne Margaret Letherby
Marsha Ann Levering
Alfonsus Dibianto Lunardi
Scott Lincoln Marrah
Jeffrey Alexander Martone
Frances Kay Maurer
Jo Ann Maynard
Catherine Michelle McPherson
Linda Jean Mecklenburg
Lynn Marie Meier
Adrienne Lisa Meiring
Sandra Hahn Mentzer
Laura Jeane Mobley
Brenda Jane Moore
Ai Chen Ng
Lisa Michelle Novack
David Wayne Oates
Craig Daniel Oiler
Beatrice Mary Padley
Patrick David Pauken
Linda Rose Peck
Paul Richard Peck
Heather May Peterman
Michelle Lynn Pettit
Kathleen Louise Pierce
James Colbert Pliickebaum
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. Rizzitano
Kelly Patricia Ross
Roger Brian Scherer
Tracy Sue Schnell
Laura Susan Schubach
Linda Ann Schulski
Brenda Sue Schwartz
Karen Lynne Scott
Walter D. Scully
Maria Dawn Senediak
Wendy Noel Showiak
Heidi Hottinger Slemmer
Halli Lyn Small
Joseph Harold Snyder

Robert William Spech
Regina Marie Strauch
Jerry Rudolph Thomas II
Dahn Michelle Thompson
Paul Anthony Toplek
Carol Elaine Trimble
Russel 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
Biology**

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 Renée 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 Joanne Carson
Kirstin Lee Fennell
Kimberly Ann Flynn
Nancy Sue Hubbard
Kathleen Anne Johnson
Mary Chi-Whi Kim
Thomas Adam Kolaja
Ronee Faye Korbin
Linette Michelle Nadir
Victor James Perotti
Radha Pyati
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
Taras 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 E. 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
Phuoc 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
Renée Drury
Lisa Marie Esterle
Christina Lynn Ford
Kifi Zeba Haque
Tienchin Ho
John Christopher Hoitink
Alison May Lewis
Matthew Louis Marks
Derek Steven Meyer
Anna Maria Nolan
James Michael Purpura
John Stephen Regas
Roberta Ann Stephenson
Lisa Dawn Thomas
Lana Rachelle Wells
Kara Lynn Wernke
Laura Elizabeth Werstak

With University Honors

Christine P. Abbott
Pamela Ann Armour
Laura Beth Arnold
Todarien 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

Sherrin Ann Rudolph
Lissette Salazar
Frederick Anthony Schultz
Teresa June Schutte
Teddi Joann Stepien
David J. Stewart
Cassandra Suggs
Christine Marie Szczurek
Allen Randolph Thomas
Steven Andrew Thompson
Jennifer Lynn Wilson
Stephen Edwin Wilson
Rachel Tracy Wimberly
Christina S. Wise

Cum Laude

Kim Danielle Allen
Heidi Anderson
Kenneth Leo 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
Homer Ray Berry
Emmett Whatley Berryman
Brian Anthony Billett
Anthony Edward Bisconti
Lori Ellen Blanchong
Bradford J. Blecha
Ruth Amelia Boll
Karen Rosanne Bonfiglio
Gregory Steven Bonnell-Kangas
Michael Roy Boone
Angela Marie Bornhorst
Sheila Marie Bowling
Melinda Kay Bradford
Delores Michele Bradley-Houston
Maria T. Brennen
Cynthia R. Brock
Julia 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 Chaabane
Elizabeth Ann Chabora
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
Erin Marie Coughlin
Karie Jean Dasenbrock
Kristen Jane Davidson
Mary Coady Davis
January Elizabeth Dean
Kelli Leigh Decker
Cynthia June DeJacimo
Randy Lee Delposen
Michelle Renee Dennie
Michael Leverett Dorn
Rosemarie Dougherty
Alan Arthur Downie
Steven Michael Doyle
Sarah Elizabeth Driscoll
Jacqueline Dusey
Jeffrey David Engle
Tamara Anne Engle
Holly Anne Eschliman
Lauren Trenholm Evans
Vincent Joseph Fabro
Stephanie Eann Falbo
Sandra Jo Faze
Inara B. Febus
Mark Dwain Fenton
Amanda Catherine Perry
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 Gutterman
Karen Leah Hamilton
Rachel L. Harner
Timothy Michael Harner
Kimberly E. Harruff
William Eric Hartman
James Eric Heagen
Dawn Leann Healey Heimlich
Judy Marie Hellwarth
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 Ivoghli
Harriet Anne Jakob
Daniel Mark Jenkins
Linda Kay Johnson
Julie Ellen Jordan

Pamela Joy Kaczor
Angela Ruth Kaverman
Joanne Marie Keck
Scott Michael Keilin
Saundra Jo Keith
Christopher Allen Kelble
Jennifer Lauren Kent
Jeffrey Howard Kim
Steven Howard Kimberly
Scott James Kirner
James Mosher Klein
Rebecca Jane Knecht
Lori Eileen Knicely
Linda Lee Kocis
Mary Elizabeth Kosko Oates
Mark Allan Kovachick
Jennifer Anne Kral
Carolyn Diane Kraml
Keith B. Kreider
Peggy Lynn 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 K. Lightner
James Edward Lofgren
Darcy Lynne Lord
Lonisa 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 McDerrery
Susan Maria McVey
Donald Lynn Messer
Robert Raymond Michalski
Lee Anne Mieseler
Michael Joseph Mikulin
Julianne Smeck 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 Nienhaus
Kara Lynn Noftz
Kristin Louise Oberdier
Jennifer Lynn Oberle
Lyle Terrance Olson
Suzanne Marie Pace
Bryan A Pardo
Heather Lee Parish
Ketan Hiralal Patel
Lisa Mary Peiffer

Kevin David Pete
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
Tamara Leigh Rearick
John Allen Reese
Elizabeth Lynne Rhoades
Teresa Lanee Rhodebeck
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 Sadlon
Kumala Budi Saputra
Thomas Sarosy
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 Tanzella
Lauren Marie Tatalick
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 Weinstein
Cynthia Deean Welker
Kathryn Sue Whitely
Kimberly Jean Wiesenmayer
Jeffery Lynn Williams
Marilyn Lee Wilson

Melinda Alice Wolfe
Margo Lynn Woods
Jane Ann Wright
Amy Christine Yore
Pamela Jean Young
Dawn Marie Zobel
Leslie Ann Zucker

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. Tonnie's.

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STUDENT TRUSTEE

Mrs. Bowser:

It is my very distinct pleasure to introduce Mr. David A. Tonnie's, 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.

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COMMITTEE APPOINTMENTS 1990-1991

Resolution No. 90-124

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. Tonnie's
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

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.

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.

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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

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 Inasley 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 some of its defects have been grandfathered into current law. So, the necessity to improve that facility is

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.

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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 advisors 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.

**ENDOWMENT FUND INVESTMENTS POLICY
THE OHIO STATE UNIVERSITY (contd)**

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-1 (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.

**ENDOWMENT FUND INVESTMENTS POLICY
THE OHIO STATE UNIVERSITY (contd)**

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.

**NON-ENDOWMENT INVESTMENTS POLICY
THE OHIO STATE UNIVERSITY (contd)**

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.**

**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.

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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

RENAMING 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.

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**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.

**AMENDMENTS TO THE MEDICAL STAFF RULES AND REGULATIONS
OF THE OHIO STATE UNIVERSITY HOSPITALS (contd)**

(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.

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**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.

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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.

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PERSONNEL ACTIONS

Resolution No. 90-130

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 Leave, 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
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Reappointment of Chairpersons of Departments and Divisions and Director of Center

July 1, 1990 through September 30, 1990

Spanish and Portuguese	Salvador Garcia*
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July 1, 1990 through June 30, 1993

Division of Pharmacology Division of Pharmacy Practice	Dennis R. Feller Richard H. Reuning
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July 1, 1990 through June 30, 1994

Anatomy Anesthesiology Medical Microbiology and Immunology Mershon Center	James S. King John S. McDonald M. Ronald Glaser Charles F. Hermann
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*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)

Pediatrics
Physiological Chemistry

Grant Morrow III
Gerald P. Brierley

October 1, 1990 through September 30, 1991

French and Italian
Plant Biology

Charles G. Williams*
Ralph E. J. Boerner*

October 1, 1990 through September 30, 1994

Life Span Process

Carol L. Kennedy

*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.

KEITH M. KILTY, Professor, College of Social Work, 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.

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.

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.

DONA S. STRALEY, Associate Professor, University Libraries, effective January 22, 1991 through September 23, 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.

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
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COOPERATIVE EXTENSION SERVICE

PROMOTION TO ASSOCIATE PROFESSOR

Frank R. Lichtkoppler	Approved - 7/1/90
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PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COOPERATIVE EXTENSION SERVICE (contd)

PROMOTION TO ASSISTANT PROFESSOR and TENURE

Lisa K. Bradley	Approved - 7/1/90 and 7/16/91
Michael P. Hogan	Approved - 7/1/90 and 12/8/93
Carol S. Miller	Approved - 7/1/90 and 2/18/92
Stephen D. Schumacher	Approved - 7/1/90 and 10/1/91
Susie J. Skinner	Approved - 7/1/90 and 11/1/91
Elizabeth J. Wingerter	Approved - 7/1/90 and 7/16/91

PROMOTION TO ASSISTANT PROFESSOR

Julie A. Dalzell	Approved - 7/1/90
Dennis W. Hall	Approved - 7/1/90
Vicki J. Schwartz	Approved - 7/1/90

TENURE

Jeffrey E. King	Approved - 1/2/92
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COLLEGE OF THE ARTS

PROMOTION TO PROFESSOR

Robert L. Arnold, Art Education	Approved - 7/1/90
Eileen C. Davis, School of Music	Approved - 10/1/90
Nancy J. MacGregor, Art Education	Approved - 10/1/90
Glenn S. Rothman, Art, Marion	Approved - 10/1/90
Christine B. Verzar, History of Art	Approved - 7/1/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Lynn A. Corbin Costanza, School of Music, Marion	Approved - 10/1/90
Timothy A. Gerber, School of Music	Approved - 10/1/90
John R. Giffin, Dance	Approved - 10/1/90
Timothy J. McNiven, History of Art, Marion	Approved - 10/1/90
Margarita L. Ophee-Mazo, School of Music	Approved - 10/1/90
Lois A. Rosow, School of Music	Approved - 10/1/90

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF EDUCATION (contd)

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Richard D. Howell, Educational Policy and Leadership	Approved - 10/1/90
Brad L. Mitchell, Educational Policy and Leadership	Approved - 10/1/90
Mary M. O'Sullivan, Health, Physical Education, and Recreation	Approved - 10/1/90

TENURE

Richard C. Remy, Educational Studies	Approved - 9/1/91
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COLLEGE OF ENGINEERING

PROMOTION TO PROFESSOR

Richard N. Christensen, Mechanical Engineering	Approved - 10/1/90
Prabhat K. Gupta, Materials Science and Engineering	Approved - 10/1/90
Ali Keyhani, Electrical Engineering	Approved - 10/1/90
Seppo A. Korpela, Mechanical Engineering	Approved - 10/1/90
L. James Lee, Chemical Engineering	Approved - 10/1/90
Sandra A. Mamrak, Computer and Information Science	Approved - 10/1/90
Jack L. Nasar, City and Regional Planning	Approved - 10/1/90
Stanislav I. Rokhlin, Welding Engineering	Approved - 10/1/90
Krishnaswamy Srinivasan, Mechanical Engineering	Approved - 10/1/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Thomas E. Blue, Mechanical Engineering	Approved - 10/1/90
James D. Cawley, Materials Science and Engineering	Approved - 10/1/90
Jane M. Fraser, Industrial and Systems Engineering	Approved - 10/1/90
Chia-Hsiang Menq, Mechanical Engineering	Approved - 10/1/90
Umit S. Ozkan, Chemical Engineering	Approved - 10/1/90
Patrick Roblin, Electrical Engineering	Approved - 10/1/90
Ponnuswamy Sadayappan, Computer and Information Science	Approved - 10/1/90
Mohammad Samimy, Mechanical Engineering	Approved - 10/1/90
David D. Woods, Industrial and Systems Engineering	Approved - 10/1/90

COLLEGE OF HUMAN ECOLOGY

PROMOTION TO PROFESSOR

Marion L. Cremer, Human Nutrition and Food Management	Approved - 7/1/90
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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 Pernel 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

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	Approved - 7/1/90
Stephen A. Koff, Surgery	Approved - 7/1/90
Richard W. O'Shaughnessy, Obstetrics and Gynecology	Approved - 7/1/90
Douglas A. Rund, Preventive Medicine	Approved - 7/1/90
Dorothy E. Schumm, Physiological Chemistry	Approved - 7/1/90
William B. Zipf, Pediatrics	Approved - 7/1/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

George E. Billman, Physiology	Approved - 10/1/90
Barbara A. Cromer, Pediatrics	Approved - 7/1/90
Nancy B. Hansen, Pediatrics	Approved - 7/1/90
Charles R. Hille, Physiological Chemistry	Approved - 10/1/90
Rebecca D. Jackson, Internal Medicine	Approved - 7/1/90
John D. Mahan, Pediatrics	Approved - 7/1/90
Walter J. Mysiw, Physical Medicine	Approved - 7/1/90
William S. Pease, Physical Medicine	Approved - 7/1/90
Robert M. Snapka, Radiology	Approved - 7/1/90
Arthur R. Strauch, Anatomy	Approved - 10/1/90
Gordon M. Wardlaw, Allied Medical Professions	Approved - 10/1/90
Mark D. Wewers, Internal Medicine	Approved - 7/1/90

PROMOTION TO ASSOCIATE PROFESSOR

Patrick J. Fahey, Family Medicine	Approved - 7/1/90
Robert M. Guthrie, Family Medicine	Approved - 7/1/90
Jack W. Smith, Jr., Pathology	Approved - 7/1/90

PROMOTION TO ASSISTANT PROFESSOR

Mark R. Dahl, Anesthesiology	Approved - 7/1/90
Merida L. Johns, Allied Medical Professions	Approved - 7/1/90

TENURE

Maria Hadjiconstantinou-Neff, Psychiatry	Approved - 7/1/91
Christos Kanellitsas, Radiology	Approved - 8/1/91
John J. Wheller, Pediatrics	Approved - 7/1/91

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 Approved - 7/1/90
Ronald Jones Approved - 7/1/90

COLLEGE OF OPTOMETRY

(Clinicals)

PROMOTION TO CLINICAL ASSOCIATE PROFESSOR

Robert D. Newcomb Approved - 7/1/90
William O. Schuller 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 Approved - 7/1/90
Dennis B. McKay, Pharmacology Approved - 7/1/90

COLLEGE OF PHARMACY

(Clinicals)

PROMOTION TO CLINICAL PROFESSOR

Timothy D. Moore, Pharmacy Practice Approved - 7/1/90

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF VETERINARY MEDICINE

PROMOTION TO PROFESSOR

Linda J. Saif, Veterinary Preventive Medicine	Approved - 7/1/90
Richard A. Sams, Veterinary Clinical Sciences	Approved - 7/1/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Richard M. Bednarski, Veterinary Clinical Sciences	Approved - 7/1/90
Kenneth W. Kwochka, Veterinary Clinical Sciences	Approved - 7/1/90

PROMOTION TO ASSOCIATE PROFESSOR

Susan E. Johnson, Veterinary Clinical Sciences	Approved - 7/1/90
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TENURE

Leo M. Schmall, Veterinary Clinical Sciences	Approved - 7/1/91
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Emeritus Titles

WELDON E. IHRIG, 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.

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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.

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STUDENT AFFAIRS COMMITTEE REPORT

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.

STUDENT AFFAIRS COMMITTEE REPORT (contd)

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

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans: (contd)

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.

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.

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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.)

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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

Background

Source	No of Projects	Support Level
The Ohio State University Research Foundation	98	\$9,452,093.00
Engineering Experiment Station	47	\$ 322,517.00
Total	145	\$9,774,610.00
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

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
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The Ohio State University Foundation

Approval of Description and Establishment of Fund

The Harold E. Burt Chair in Industrial Psychology Fund	\$ 250,000.00
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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - April 1990

Federal Research Contracts/Grants

\$2,028,184.00 - National Science Foundation, Washington, D.C., Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station (T. Altan), 1 May 1990 through 30 April 1991. (Project 767477 - Continuation)

\$389,280.00 - 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)

\$202,272.00 - 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 1990 through 30 April 1991. (Project 766884 - Continuation)

\$202,221.00 - 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)

\$200,053.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., National Resource Center -- East Asia, Office of International Affairs (C. M. Chen), 15 August 1990 through 14 August 1991. (Project 766979 - Continuation)

\$188,544.00 - 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)

\$178,354.00 - 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 1990 through 31 March 1991. (Project 763502 - Continuation)

\$177,454.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Chemistry of Novel Natural Inhibitors of Carcinogenesis, College of Pharmacy (J. M. Cassidy), 1 April 1990 through 31 March 1991. (Project 766665 - Continuation)

\$167,359.00 - 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)

\$164,685.00 - 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), 1 April 1990 through 31 March 1991. (Project 766682 - Continuation)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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. Mazzaferri 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)

\$156,324.00 - 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. Schwarczopf), 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. Colinvaux), 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. Rall), 1 April 1990 through 31 March 1991. (Project 760993 - Continuation)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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 Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Determinants and Correlates of Maternal Depression, Department of Family Relations and Human Development (E. I. Hock), 1 April 1990 through 31 March 1991. (Project 768189 - New)

\$75,559.00 - 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)

\$75,511.00 - 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 1990 through 31 March 1991. (Project 765986 - Continuation)

\$66,925.00 - 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 768202 - New)

\$61,184.00 - Department of Energy, Argonne, Illinois, The Molecular Characterization of the Lignin-Forming Peroxidase, Department of Horticulture - OARDC and Department of Horticulture (L. M. Lagrimini), 1 April 1990 through 31 March 1991. (Project 767373 - Continuation)

\$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)

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

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

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)

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 768203 - Continuation)

\$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 765353 - Continuation)

\$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)

\$7,487.00 - National Security Council, Central Intelligence Agency, Washington, D.C., Generalized Moment-Method Antenna Model Development, ElectroScience Laboratory, Department of Electrical Engineering (E. H. Newman), 1 February 1990 through 15 May 1990. (Project 766796 - Continuation)

\$6,996.00 - Department of Agriculture, Science and Education, Peoria, Illinois, Cooperative Agricultural Research, Office of the Director - OARDC (N. D. Schmidt and R. F. Edwards), 17 April 1990 through 30 September 1990. (Project 766472 - Continuation)

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

\$111,556.00 - 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 8 February 1991. (Project 767524 - Continuation)

\$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 - Continuation)

\$45,870.00 - Amoco Corporation, Naperville, Illinois, Feasibility of Fourier Transform Mass Spectrometry for Ultrahigh-Resolution Mass Spectral Analysis of Crude Oil Fractions, Department of Chemistry, Chemical Instrumentation Center, and Department of Biochemistry (A. G. Marshall), 1 May 1990 through 30 April 1991. (Project 768205 - 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 Polynitrozacubanes, 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)

Computer Software - Pixar, San Rafael, California, Render Man Educational Software Program, Advanced Computing Center for the Arts and Design (D. Stredney), 1 April 1990 through 31 March 1991. (Project 768201 - New) (Approximate Dollar Value - \$2,500)

TOTAL - INDUSTRIAL AWARDS \$ 369,112.00

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)

\$83,748.00 - Smokeless Tobacco Research Council, Inc., New York, New York, In Vivo and In Vitro Effects of Smokeless Tobacco on Oral Bacteria and Periodontal Disease, Oral Biology (K. Schroeder and S. Rosen), 1 July 1990 through 30 June 1991. (Project 766816 - Continuation)

\$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, III), 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)

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 **\$ 322,517.00**

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.

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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.

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

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

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. Burt Chair in Industrial Psychology Fund

The Harold E. Burt 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. Burt 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. Burt 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.

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**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

DREESE 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.

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**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)

Total All Contracts:	\$ 92,050.00
Contingency Allowance:	\$ 7,365.00 (8 percent of construction cost)
Total Project Cost:	\$101,415.00

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
Total All Contracts:	\$330,980.00
Contingency Allowance:	\$ 32,207.75 (9 percent of construction cost)
Total Project Cost:	\$450,000.00

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 *

**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

**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.

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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.

1990-91 BUDGET PRESENTATION (contd)

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.

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

June 1, 1990 meeting, Board of Trustees

1990-91 CURRENT FUNDS BUDGET (contd)

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. Teafor, 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.)

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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.

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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

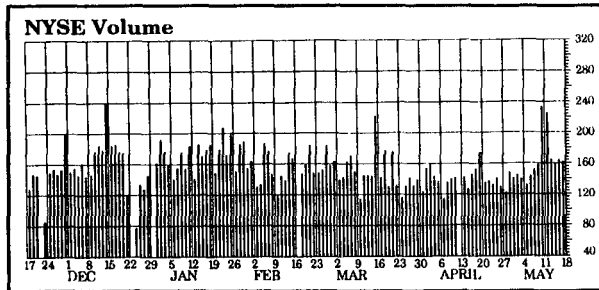
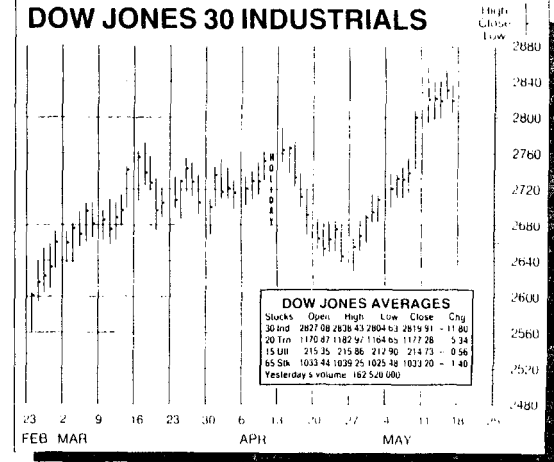
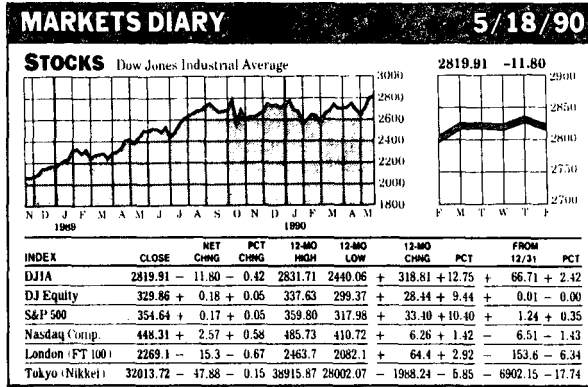
May 18, 1990

Office of the Treasurer



The Ohio State University Endowment Fund

Equity Market Information

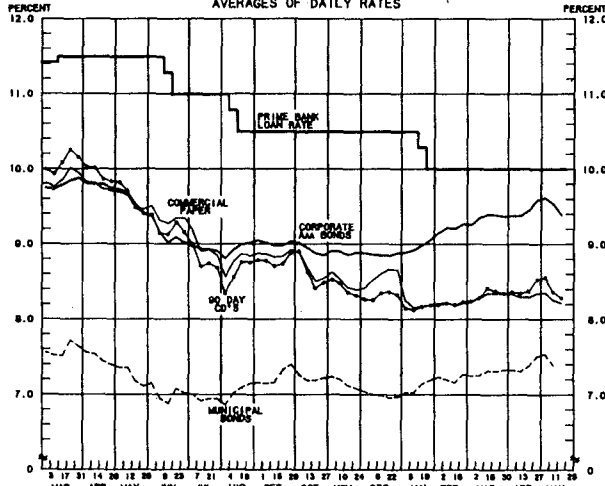


The Ohio State University Endowment Fund

Selected Yield and Interest Rates

YIELDS ON SELECTED SECURITIES

AVERAGES OF DAILY RATES



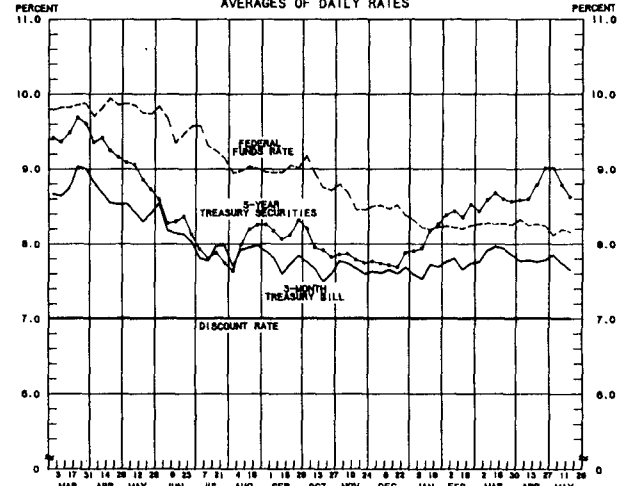
LATEST DATA PLOTTED ARE AVERAGES OF RATES AVAILABLE FOR THE WEEK ENDING, MAY 18, 1990.

1990	90 DAY CD'S	30-DAY COMMERCIAL PAPER	90-DAY BANKERS' ACCEPTANCES	CORPORATE AAA BONDS	CORPORATE BAA BONDS	MUNICIPAL BONDS
MAR. 2	8.25	8.23	8.06	9.26	10.20	7.25
9	8.29	8.29	8.10	9.35	10.24	7.25
16	8.42	8.35	8.19	9.40	10.22	7.32
23	8.36	8.35	8.18	9.30	10.17	7.31
30	8.35	8.35	8.18	9.37	10.20	7.33
APR. 6	8.37	8.34	8.17	9.38	10.22	7.33
13	8.35	8.30	8.14	9.38	10.18	7.31
20	8.36	8.30	8.16	9.45	10.29	7.38
27	8.53	8.35	8.30	9.50	10.25	7.51
MAY 4	8.56	8.36	8.29	9.62	10.34	7.54
11	8.37	8.28	8.13	9.54	10.49	7.39
18 #	8.29	8.22	8.06	9.30	10.37	N.A.
25						

NOTE: CURRENT DATA APPEAR IN THE BOARD OF GOVERNORS' H-15 RELEASE.
 # AVERAGES OF RATES AVAILABLE
 ## BOND BUYER'S AVERAGE INDEX OF 20 MUNICIPAL BONDS, THURSDAY DATA
 N.A. - NOT AVAILABLE

SELECTED INTEREST RATES

AVERAGES OF DAILY RATES



LATEST DATA PLOTTED ARE AVERAGES OF RATES AVAILABLE FOR THE WEEK ENDING, MAY 18, 1990.

1990	FEDERAL FUNDS	3-MONTH TREASURY BILL	6-MONTH TREASURY BILL	1-YEAR TREASURY BILL	5-YEAR TREASURY SECURITIES	LONG-TERM TREASURY SECURITIES
MAR. 2	8.27	7.76	7.70	7.58	8.44	8.67
9	8.28	7.91	7.79	7.78	8.39	8.74
16	8.27	7.96	7.89	7.81	8.38	8.78
23	8.27	7.83	7.92	7.76	8.60	8.65
30	8.36	7.85	7.83	7.75	8.57	8.68
APR. 6	8.33	7.77	7.81	7.71	8.38	8.72
13	8.25	7.78	7.80	7.70	8.60	8.72
20	8.37	7.78	7.75	7.81	8.78	8.94
27	8.24	7.78	7.81	7.84	9.01	9.13
MAY 4	8.12	7.85	8.03	7.84	9.01	9.11
11	8.20	7.84	7.75	7.75	8.78	8.93
18 #	8.16	7.65	7.68	7.64	8.63	8.75
25						

NOTE: CURRENT DATA APPEAR IN THE BOARD OF GOVERNORS' H-15 RELEASE EXCLUDING LONG-TERM TREASURY SECURITIES WHICH ARE COMPILED BY THIS BANK. TREASURY BILL YIELDS ARE ON A DISCOUNT BASIS.
 # AVERAGES OF RATES AVAILABLE
 ## WEEKLY AVERAGES FOR WEEK ENDING TWO DAYS EARLIER THAN DATE SHOWN
 ### AUCTION AVERAGE (DISCOUNT)

THE OHIO STATE UNIVERSITY
Portfolio Summary

	<u>5/18/90</u>	<u>6/30/89</u>
Unallocated Cash	\$437,413	\$57,014,059
Equities:		
Chicago	37,560,816	34,629,320
R. Meeder (1)	12,971,550	0
Neuberger & Berman	13,996,281	13,552,018
Nicholas Applegate	14,823,661	11,475,663
Siebel	35,706,357	32,173,227
University Managed	32,160,208	29,154,054
University Students (2)	5,416,334	0
Wells Fargo EAFE (3)	9,047,396	0
Wells Fargo S&P 500 (4)	30,553,436	0
Total Equities	192,236,039	120,984,282
Fixed Income:		
Boatmen's Trust	22,425,965	23,841,580
Cambridge	918,080	951,048
Duff & Phelps	9,970,833	10,243,208
WR Lazard (5)	9,740,129	0
STW Fixed Income	22,804,854	24,150,270
University GNMA	9,926,775	10,144,887
University Managed	239,188	465,211
Total Fixed Income	76,025,824	69,796,204
Real Estate	43,967,188	39,503,844
Total Portfolio	\$312,666,464	\$287,298,389

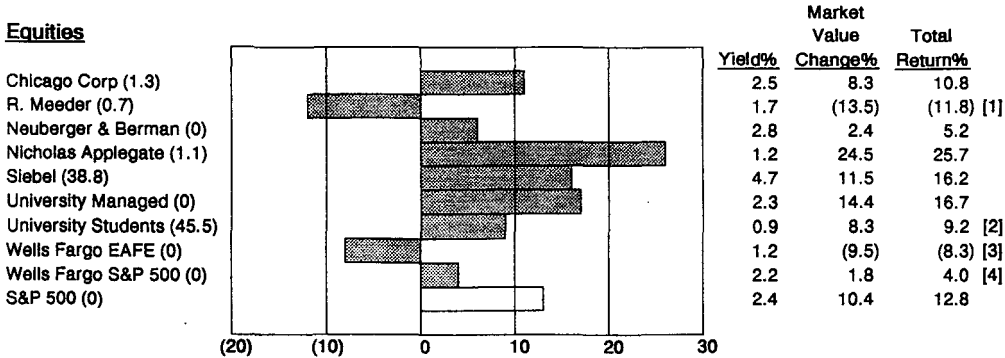
<u>Asset Allocation</u>	<u>5/18/90</u>	<u>% of Portfolio</u>	<u>4/20/90</u>	<u>% of Portfolio</u>	<u>6/30/89</u>	<u>% of Portfolio</u>
Equities	\$175,130,881	56.01	\$165,139,878	55.06	\$106,021,220	36.90
Fixed Income	75,043,433	24.00	73,062,994	24.36	66,884,167	23.28
Real Estate	43,875,000	14.03	43,875,000	14.63	39,395,000	13.71
Cash	18,617,150	5.96	17,864,845	5.95	74,998,002	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.

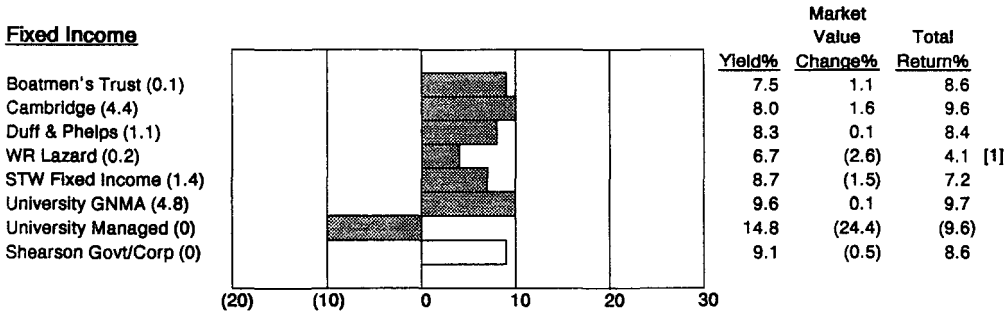
THE OHIO STATE UNIVERSITY Endowment Performance Summary

Estimated 12 Month Total Return

Equities



Fixed Income



() Percent Cash 5/18/90

- [1] Reflects return from initial allocation August 8, 1989 only.
 [2] Reflects return from initial allocation February 20, 1990 only.
 [3] Reflects return from initial allocation October 2, 1989 only.
 [4] Reflects return from initial allocation October 8, 1989 only.

	Year to Date	Latest Month
	July 1, 1989 to May 18, 1990	April 21, 1990 to May 18, 1990
<u>Change in Total Valuation</u>		
Beginning Market Value	\$287,298,389	\$299,942,717
Principal Additions	19,549,645	1,023,844
Principal Withdrawals	(294,472)	0
Change in Market Value	6,112,902	11,699,903
Ending Market Value	<u>\$312,666,464</u>	<u>\$312,666,464</u>

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

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>
------------------	--------------------------------	----------------

No maturities during the period.

REAL ESTATE

Acquisitions & Sales

Description

Cost or
Appraised Value

No activity during the period.

THE OHIO STATE UNIVERSITY
Equity Acquisitions

Purchases and Gifts During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Annual Dividend</u>
3,600	Air Products & Chemicals, Inc.	Chicago	54.9850	\$198,180.00	\$4,752.00
2,400	American Brands, Inc.	Chicago	64.5490	155,073.60	6,192.00
3,800	Apple Computer, Inc.	Chicago	39.6875	150,812.50	1,672.00
3,100	Becton Dickinson & Co.	Chicago	59.8690	185,795.40	3,224.00
1,400	Disney (Walt) Co.	Chicago	113.5090	159,003.60	812.00
2,000	General Mills, Inc.	Chicago	76.8550	153,840.00	4,400.00
3,100	Harley-Davidson, Inc.	Chicago	48.6380	150,963.80	0.00
800	Long's Drug Stores Corp.	Chicago	36.8750	29,552.00	768.00
7,000	National Pizza Co.	Chicago	22.4020	156,814.00	0.00
2,100	Nike, Inc.	Chicago	71.6115	150,384.25	1,680.00
6,100	Stride Rite Corp.	Chicago	24.8750	152,103.50	2,440.00
4,300	U.S. West, Inc.	Chicago	36.7501	158,025.50	8,600.00
14,000	Blockbuster Entertainment Corp.	Nicholas-Applegate	19.0883	268,075.60	0.00
7,500	Federal National Mortgage Association	Nicholas-Applegate	39.5698	297,223.30	5,400.00
4,000	Motorola, Inc.	Nicholas-Applegate	67.1900	269,000.00	3,040.00
10,000	Newell Co.	Nicholas-Applegate	26.4850	265,450.00	4,500.00
11,000	Southwest Airlines Co.	Nicholas-Applegate	26.0043	286,707.50	1,540.00
4,600	Enron Oil & Gas Corp.	Siebel	22.0440	101,724.40	920.00
15,000	Granite Construction, Inc.	Siebel	17.4417	261,625.00	0.00
10,900	Promus Companies, Inc.	Siebel	26.0000	284,163.00	0.00
15,000	Rochester Telephone Co.	Siebel	33.6250	505,425.00	21,600.00
10,000	United States Shoe Corp.	Siebel	22.3380	224,080.00	4,600.00
1,000	American International Group, Inc.	University Students	87.5000	87,560.00	480.00
5,000	Coca-Cola Corp.	University Students	42.1250	211,125.00	4,000.00
1,000	Limited, Inc.	University Students	40.1250	40,225.00	480.00
				<u>\$4,902,931.95</u>	<u>\$81,100.00</u>

THE OHIO STATE UNIVERSITY
Equity Sales

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Total Sale</u>	<u>Gain (Loss)</u>
6,500	Boise Cascade Corp.	Chicago	34.8410	\$226,036.45	(\$40,521.65)
2,700	CNA Financial Corp.	Chicago	71.2500	192,193.08	38,455.08
7,600	Comdisco, Inc.	Chicago	18.0000	136,301.44	(16,192.56)
4,000	Dun & Bradstreet Corp.	Chicago	45.0000	179,734.00	48,559.88
9,300	Ennis Business Forms, Inc.	Chicago	22.8750	212,125.90	55,495.30
5,350	Kelly Services, Inc. Cl. A	Chicago	35.8750	191,931.25	(4,072.75)
5,200	Kemper Corp.	Chicago	34.5000	179,056.02	(53,581.98)
1,419	LIN Broadcasting Corp.	Chicago	67.5000	95,782.50	15,786.37
5,600	Marriott Corp.	Chicago	24.1250	134,731.49	(27,633.23)
3,500	NCR Corp.	Chicago	67.8750	237,327.08	27,785.58
8,500	ALZA Corp. Cl. A	Nicholas-Applegate	35.4721	300,992.43	82,771.93
400	Autodesk, Inc.	Nicholas-Applegate	42.6540	17,061.60	4,095.53
5,200	Avnet, Inc.	Nicholas-Applegate	28.4815	147,786.65	4,994.65
3,400	Baxter International, Inc.	Nicholas-Applegate	21.0109	71,230.71	(10,013.37)
5,100	Dayton-Hudson Corp.	Nicholas-Applegate	68.5261	349,165.63	29,644.13
700	Gap, Inc.	Nicholas-Applegate	66.1950	46,292.95	1,625.95
1,700	Microsoft Corp.	Nicholas-Applegate	65.7500	111,775.00	58,100.85
2,300	Neiman Marcus Group, Inc.	Nicholas-Applegate	15.7210	36,019.06	(2,646.72)
6,400	Novell, Inc.	Nicholas-Applegate	35.6626	228,240.44	17,136.83
1,500	Tambrands, Inc.	Nicholas-Applegate	81.3750	121,968.43	14,979.89
4,900	American Stores Co.	Siebel	68.6840	336,197.38	67,154.49
37,600	Cypress Semiconductor Corp.	Siebel	12.5873	470,635.42	21,835.42
15,100	Morton International, Inc.	Siebel	40.2510	606,712.84	93,934.16
3,000	American International Group, Inc.	University Students	93.6250	280,565.63	(239.37)
5,000	Banc One Corp.	University Students	27.5000	137,195.41	(8,979.59)
5,000	Edison Brothers Stores	University Students	35.4500	176,744.08	13,529.08
5,000	Fifth Third Bancorp	University Students	32.2500	160,750.00	450.00
6,000	Rubbermaid, Inc.	University Students	38.7500	231,892.24	33,632.24
5,000	Wal-Mart Stores, Inc.	University Students	54.0000	269,491.00	37,316.00
5,000	Walgreen Co.	University Students	43.6250	217,617.72	7,130.22
				<u>\$6,103,553.83</u>	<u>\$510,532.36</u>

THE OHIO STATE UNIVERSITY
Fixed Income Acquisitions

Purchases and Gifts During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Price</u>	<u>Investment</u>
2,275,000	U.S. Treasury Bond 7.250% 05-15-16	Boatmen's	8.7278%	8.9351%	83.0678	\$1,889,792.19
900,000	U.S. Treasury Bond 8.500% 02-15-20	Cambridge	8.7884	8.8110	96.7187	870,468.75
1,000,000	Mountain States Telephone & Telegraph Co. 7.375% 05-01-30	STW	9.6801	9.7493	76.1870	761,870.00
						<u>\$3,522,130.94</u>

THE OHIO STATE UNIVERSITY
Fixed Income Sales

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Price</u>	<u>Total Sale</u>	<u>Gain (Loss)</u>
1,000,000	Eaton Corporation 8.875% 06-15-19	Boatmen's	90.7800	\$907,800.00	(\$87,900.00)
1,000,000	Associates Corp. of North America 8.375% 01-15-98	Boatmen's	98.0860	980,860.00	(13,640.00)
1,000,000	U.S. Treasury Bond 8.125% 08-15-19	STW	90.3281	903,281.25	(27,968.75)
				<u>\$2,791,941.25</u>	<u>(\$129,508.75)</u>

THE OHIO STATE UNIVERSITY
Real Estate Investments

	<u>Yield</u>	<u>Year Acquired</u>	<u>Carrying Value</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
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	24,666 (1)	24,666	N/A
Hangar addition at Don Scott Field (Loan)	10.00%	1978	67,522 (1)	67,522	N/A
17.92 acres of land on Elterman 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%	1985	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
			<u>\$15,598,129</u>	<u>\$43,967,188</u>	

(1) Amount represents balance on loan made to Department of Aviation



Office of the Treasurer

Riverwatch Tower - Suite B
364 West Lane Avenue
Columbus, OH 43201-1002
Phone 614-292-6261

MEMORANDUM

Subject: Proxy Solicitations

Date: May 31, 1990

From: James L. Nichols, Treasurer *James L. Nichols*

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

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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

	<u>Credits</u>
Foundations	
Reading, Writing, Oral Expression, and Critical Analysis	
Two writing courses	10
A third writing course counted in the major	0
Oral expression	5
Quantitative and Logical Skills	
College algebra or elements of algebra	4
Data analysis	5
Social Diversity	0
Natural Science	
First course in a two course chemistry sequence	5
First course in a two course biology sequence	5
First course in a two course physics sequence	5
Second course in a chemistry, biology or physics sequence	5
Calculus or one additional course in a natural science	4-5
Social Science	
Three courses: Structured selection	15
Arts and Humanities	
Two courses: Two-quarter historical survey	10
Three courses: Structured selection	15
International Experience	
One or two courses	5-10
Capstone Experience	
Issues of the Contemporary World	5
Major	
Professional Support (minimum 10 hours)	50-60
Study in Depth (minimum 25 hours)	
Minor	
	20-25
Electives	
	10-31
Agriculture Survey	
	1
Minimum Credits for the Degree:	
	200

**School Of Natural Resources
Undergraduate Education Requirements**

University General Education Courses (GEC) and
Natural Resources Education Requirements (NRER)

I. Foundations	<u>Hours</u>
A. UVC 100.28	1
B. Writing and Related Skills	(GEC) (15)
1. English Composition (English 110)	5
2. Environment: the American Experience Natural Resources 267 <u>or</u> other University approved second writing course	5
3. Communicating Environmental and Natural Resources Information (Natural Resources 567)	5
B. Quantitative and Logical Skills	(GEC) (15)
1. Mathematics 150, 151	10
2. Natural Resources Data Analysis (Natural Resources 222)	5
3. Computer Applications in Natural Resources Management (Natural Resources 341)	(NRER) 5
C. Foreign Language (Effective Au 91)	(GEC) (20)
1. Foreign Language 101, 102, 103	
2. Foreign Language 104 or 5 credits in approved area studies or study abroad program	
II. Natural Science	(GEC) (25)
A. Biological Sciences (Biology 113/114)	10
B. Chemistry (Chemistry 121-122)	10
C. Introductory Geology (Geology 121) or Introductory Agronomy (Agronomy 240)	5
D. Zoology 313	(NRER) 5

III.	Social Sciences Social Diversity (select course from university-approved list; hours will be counted elsewhere)	(GEC)	(15)
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 Contemporary Issue of Natural Resources Management (Proposed Natural Resources 6AA) or other University approved Capstone course*	(GEC)	(5)

VIII. Major Specialization

(38)

	Total Total	GEC hours 110-120 NRER hours 33
IX. Summary		
A. UVC		1 hr
B. General Education Requirements		100 hrs.
C. School of Natural Resources Requirements		26 hrs.
D. Major Specialization		38 hrs.
E. Free Electives		<u>21 hrs.</u>
	TOTAL HOURS	196 hrs.

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
6.	Botany 620: Community Ecology and Ecosystems	5
7.	Electives	12

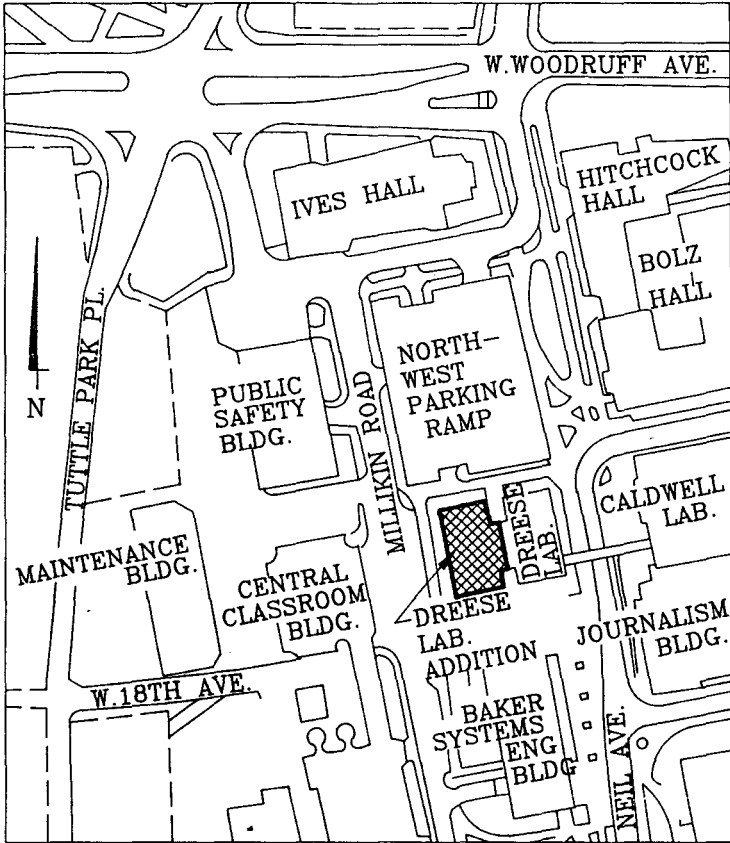
Page 1230 Blank

APPENDIX LXXV

DREESE LABORATORY ADDITION

Adopted by the Board of Trustees June 1, 1990
(See page 1196)

DREESE 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

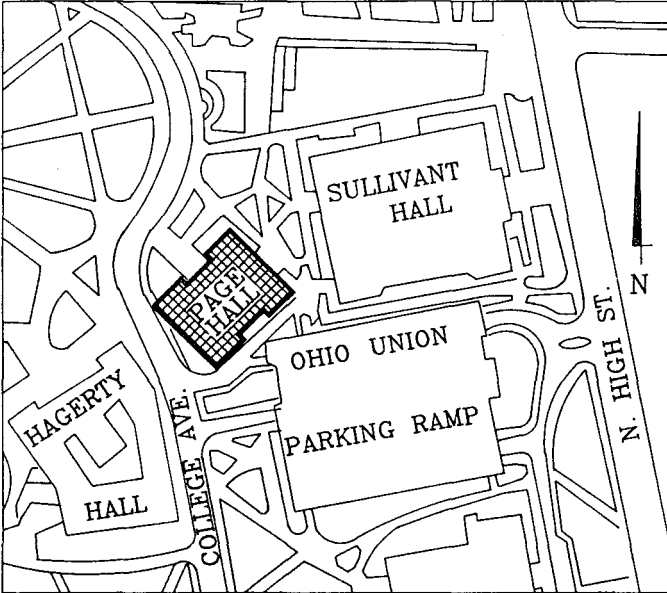
PAGE HALL WINDOW REPLACEMENT

Tabulation of Bids

Bids received by The Ohio State University on April 17, 1990. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

<u>General Contract</u>	<u>Estimate</u>	<u>M. Reiser *</u>	<u>James Gribben</u>	<u>T f F Supply</u>
Base Bid	\$150,000.00	\$88,880.00	\$104,340.00	\$123,850.00
Alt. G-1 (Venetian Blinds)	7,500.00	3,170.00	2,940.00	2,995.00
Total General Contract	\$157,500.00	\$92,050.00	\$107,280.00	\$126,845.00

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

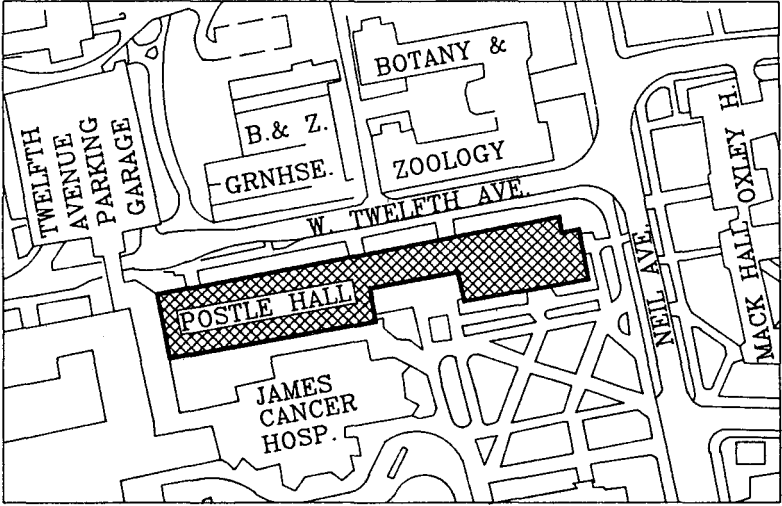
Tabulation of Bids

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 "*".

<u>HVAC Contract</u>	<u>Estimate</u>	<u>J. A. Guy *</u>	<u>Sauer</u>	<u>J. A. Croson</u>	<u>Farber</u>
Base Bid	\$304,386.00	\$297,300.00	\$299,700.00	\$316,970.00	\$329,700.00
Total HVAC Contract	\$304,386.00	\$297,300.00	\$299,700.00	\$316,970.00	\$329,700.00
Alternates not taken:					
Alt. H-1 (Standby Pumps)	20,441.00	23,000.00	24,500.00	26,190.00	30,000.00
Alt. H-2 (Stainless Steel Cooling Tower Components)	12,000.00	14,000.00	12,650.00	11,050.00	12,000.00
Alt. H-3 (Demolition of Chiller & Equipment)	6,100.00	11,000.00	7,250.00	15,700.00	13,000.00

<u>Electric Contract</u>	<u>Estimate</u>	<u>Romanoff *</u>	<u>Power National</u>
Base Bid	\$40,323.00	\$33,680.00	\$42,700.00
Total Electric Contract	\$40,323.00	\$33,680.00	\$42,700.00
Alternates not taken:			
Alt. E-1 (Standby Pumps)	2,819.00	4,885.00	6,000.00
Alt. E-2 (Demolition for Chiller & Equipment)	820.00	765.00	1,375.00

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

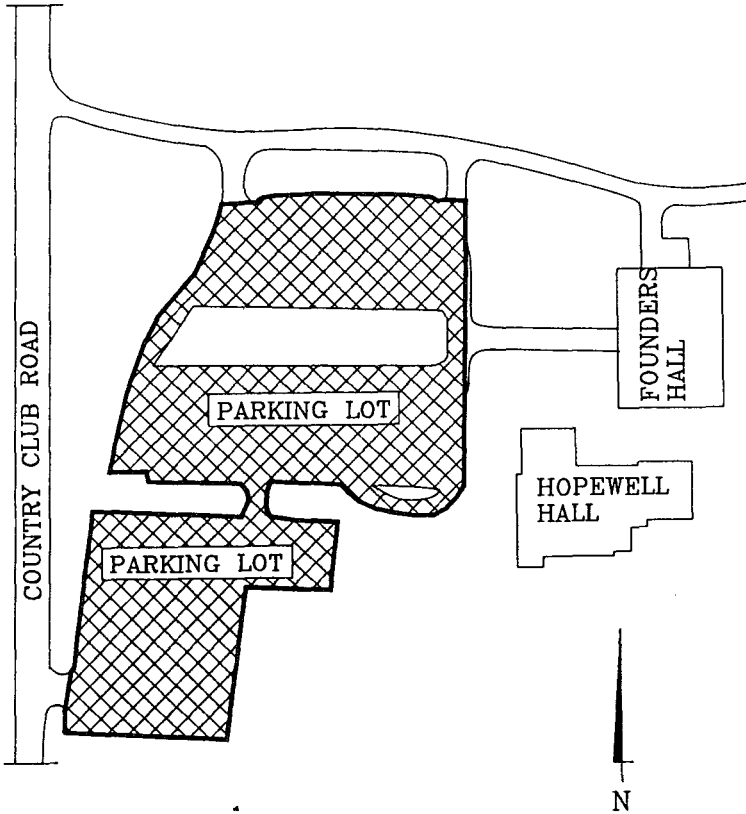
NEWARK REGIONAL CAMPUS PARKING LOT REMOVAL

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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Miller *</u>	<u>Strawser</u>	<u>Newark Asphalt</u>
Base Bid	\$344,888.00	\$308,746.60	\$325,182.00	\$329,916.78
Alt. G-1 (Wheel Stops, ground mounting posts & striping)	15,484.00	10,280.00	14,981.00	21,862.00
Alt. G-2 (Tack Coat)	23,976.00	20,581.00	22,639.10	20,581.00
Total General Contract	\$384,348.00	\$339,607.60	\$362,802.10	\$372,359.78
General Contract (Continued)	<u>Gene Cox</u>			
Base Bid	\$436,674.01			
Alt. G-1 (Wheel Stops, ground mounting posts & striping)	22,548.00			
Alt. G-2 (Tack Coat)	20,581.00			
Total General Contract	\$478,803.01			

NEWARK REGIONAL CAMPUS PARKING LOT RENOVATION



OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 1, 1990

June 1, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

1960 KENNY ROAD REMOVALION

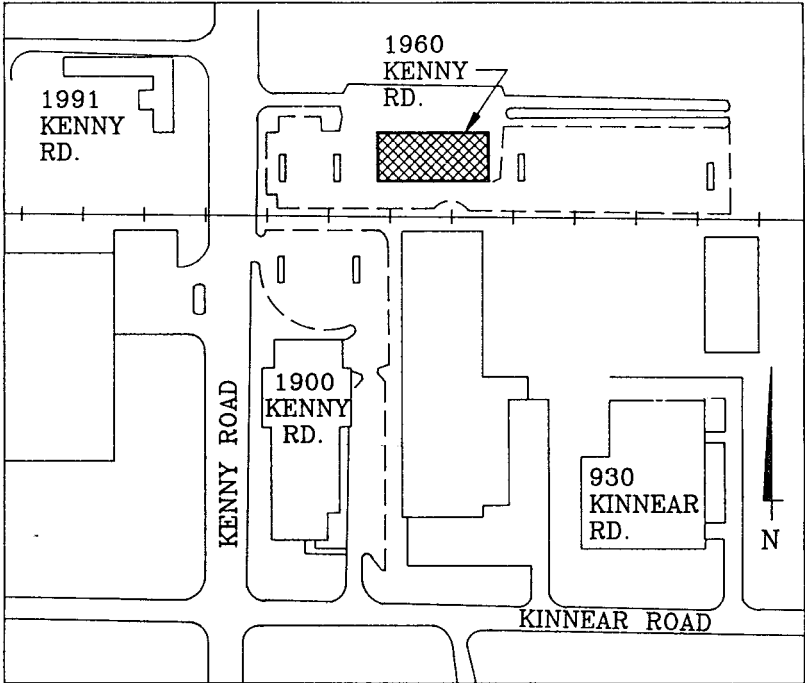
Tabulation of Bids

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 "*".

<u>General Contract</u>	<u>Estimate</u>	<u>Ed Ross *</u>	<u>GRW</u>	<u>Functional Development</u>
Base Bid	\$425,000.00	\$271,700.00	\$286,890.00	\$297,900.00
Alt. G-1 (Office Equipment)		13,895.00	10,754.00	14,100.00
Total General Contract	\$425,000.00	\$285,595.00	\$297,644.00	\$312,000.00
General Contract (Continued)	<u>Gutmecht</u>	<u>M & P</u>	<u>Allen Balley</u>	<u>Altman</u>
Base Bid	\$299,163.00	\$300,940.00	\$301,624.00	\$313,313.00
Alt. G-1 (Office Equipment)	13,000.00	9,600.00	14,621.00	13,676.00
Total General Contract	\$312,163.00	\$310,540.00	\$316,245.00	\$326,989.00
General Contract (Continued)	<u>Williamson</u>	<u>Charter Hill</u>	<u>Setterlin</u>	<u>Construction One</u>
Base Bid	\$317,500.00	\$321,446.00	\$327,700.00	\$334,224.00
Alt. G-1 (Office Equipment)	14,855.00	15,600.00	13,600.00	16,750.00
Total General Contract	\$332,355.00	\$337,046.00	\$341,300.00	\$350,974.00
General Contract (Continued)	<u>Cody Zeigler</u>	<u>Thomas Paige</u>		
Base Bid	\$347,000.00	\$360,000.00		
Alt. G-1 (Office Equipment)	15,700.00	11,200.00		
Total General Contract	\$362,700.00	\$371,200.00		
<u>Fire Protection Contract</u>	<u>Estimate</u>	<u>Dalmation *</u>	<u>Culligan</u>	<u>Capital</u>
Base Bid	\$20,000.00	\$29,000.00	\$32,500.00	\$47,330.00
Total Fire Protection Contract	\$20,000.00	\$29,000.00	\$32,500.00	\$47,330.00

<u>HVAC Contract</u>	<u>Estimate</u>	<u>R. M. Giehl *</u>	<u>J. A. Guy</u>	<u>Howard</u>
Base Bid	\$64,000.00	\$53,400.00	\$61,300.00	\$61,900.00
Total HVAC Contract	\$64,000.00	\$53,400.00	\$61,300.00	\$61,900.00
<u>HVAC Contract (Continued)</u>	<u>C. R. Legner</u>	<u>Swain</u>	<u>Ro-Dan</u>	
Base Bid	\$80,000.00	\$81,300.00	\$89,000.00	
Total HVAC Contract	\$80,000.00	\$81,300.00	\$89,000.00	
<u>Electric Contract</u>	<u>Estimate</u>	<u>Walls-Carroll *</u>	<u>Frush & Roman</u>	<u>Claggett</u>
Base Bid	\$250,000.00	\$204,007.00	\$235,569.00	\$241,436.00
Total Electric Contract	\$250,000.00	\$204,007.00	\$235,569.00	\$241,436.00
<u>Electric Contract (Continued)</u>	<u>Penn</u>	<u>Electric Power</u>	<u>Romanoff</u>	
Base Bid	\$249,500.00	\$285,100.00	\$288,000.00	
Total Electric Contract	\$249,500.00	\$285,100.00	\$288,000.00	

1960 KENNY ROAD RENOVATION



OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 1, 1990

APPENDIX LXXVII

THE OHIO STATE UNIVERSITY
1990-91 CURRENT FUNDS BUDGET

Adopted by the Board of Trustees June 1, 1990
(See page 1205)

THE OHIO STATE UNIVERSITY
1990-91 CURRENT FUNDS BUDGET

Budgeted Resources
(In Millions of Dollars)

	1989-90 Budget July 7, 1989	1989-90 Revised Estimate	1990-91 Proposed Budget
Central Campus			
State Appropriations	\$304.64	\$302.75	\$320.15
Student Fees	158.69	161.57	175.31
Other Resources			
Federal Grants and Contracts	102.88	102.88	107.84
Ohio Grants and Contracts	15.53	13.38	14.16
Local Grants and Contracts	13.84	13.84	14.28
Private Gifts and Grants	61.86	64.55	66.95
Endowment Income	10.35	10.35	11.05
Department and University Services	28.77	28.74	32.38
Auxiliary Sales & Charges	86.25	84.54	87.44
Hospitals & CHRI Services	222.45	222.45	255.09
Other Sources	13.54	13.05	16.28
Total Other Resources	\$555.47	\$553.78	\$605.47
Total Central Campus	\$1,018.80	\$1,018.10	\$1,100.93
Regional Campuses			
State Appropriations	13.30	13.44	14.19
Student Fees	9.77	10.95	12.23
Other Resources	4.58	4.86	5.17
Total Regional Campuses	\$27.65	\$29.25	\$31.59
OARDC			
State Appropriations	21.70	21.70	23.06
Federal	7.60	7.60	7.75
All Other	4.54	4.54	4.30
Total OARDC	\$33.84	\$33.84	\$35.11
Total University			
State Appropriations	339.64	337.89	357.40
Student Fees	168.46	172.52	187.54
Other Resources	572.19	570.78	622.69
Total University	\$1,080.29	\$1,081.19	\$1,167.63

UBP/June 1, 1990

THE OHIO STATE UNIVERSITY
1990-91 CURRENT FUNDS BUDGET

Budgeted Uses
(In Millions of Dollars)

	1989-90 Budget July 7, 1989	1989-90 Revised Estimate	1990-91 Proposed Budget
Central Campus			
Educational & General	\$689.15	\$690.35	\$732.98
Auxiliary Enterprises			
Residence & Dining Halls	38.65	37.11	38.48
Intercollegiate Athletics	21.93	21.93	23.12
Other Auxiliaries	32.02	31.43	32.80
Total Auxiliaries	\$92.60	\$90.47	\$94.40
University Hospitals & CHRI	236.94	236.94	271.80
Total Central Campus	\$1,018.69	\$1,017.76	\$1,099.18
Regional Campuses			
Agricultural Technical Institute	6.57	6.94	7.59
Lima Campus	5.49	5.11	6.36
Mansfield Campus	4.94	5.16	5.72
Marion Campus	4.74	4.60	5.15
Newark Campus	5.68	5.92	6.65
Total Regional Campuses	\$27.42	\$27.73	\$31.47
OARDC	33.84	33.84	35.11
Total Uses	\$1,079.95	\$1,079.33	\$1,165.76

UBP/June 1, 1990

THE OHIO STATE UNIVERSITY
1990-91 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Undergraduate Colleges						
Agriculture						
Allied Medical Prof.						
Architecture						
The Arts						
Biological Sciences						
Business						
Continuing Education						
Dental Hygiene						
Education						
Engineering	0	53	10	63	64	127
Health, Phys. Educ., & Rec.	1	105	19	124	128	252
Human Ecology	2	131	29	160	256	416
Humanities	3	157	38	195	383	578
Journalism	4	209	51	260	511	771
Mathematics & Physical Sci.	5	262	64	326	639	965
Music	6	314	77	391	767	1,158
Natural Resources	7	366	89	455	894	1,349
Nursing	8	419	102	521	1,022	1,543
Pharmacy	9	471	115	586	1,150	1,736
Social & Behavioral Sciences	10	523	128	651	1,278	1,929
Social Work	11	576	140	716	1,405	2,121
University College	12+	628	153	781	1,533	2,314
Graduate School						
	0	60	10	70	88	158
	1	119	19	138	176	314
	2	191	31	222	352	574
	3	286	46	332	528	860
	4	382	61	443	704	1,147
	5	477	77	554	881	1,435
	6	572	92	664	1,057	1,721
	7	668	107	775	1,233	2,008
	8	763	122	885	1,409	2,294
	9	859	138	997	1,585	2,582
	10+	954	153	1,107	1,761	2,868

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THE OHIO STATE UNIVERSITY
1990-91 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Graduate Professional						
Law	0	106	15	121	176	297
(Fees Per Semester)	1	211	29	240	351	591
	2	338	46	384	562	946
	3	506	69	575	843	1,418
	4	675	92	767	1,124	1,891
	5	844	115	959	1,405	2,364
	6	1,013	138	1,151	1,686	2,837
	7	1,182	161	1,343	1,967	3,310
	8	1,350	184	1,534	2,248	3,782
	9	1,519	207	1,726	2,529	4,255
	10+	1,688	230	1,918	2,810	4,728
Pharmacy, Doctor of	0	71	10	81	117	198
(Fees Per Quarter)	1	141	19	160	234	394
	2	225	31	256	375	631
	3	338	46	384	562	946
	4	450	61	511	749	1,260
	5	563	77	640	937	1,577
	6	676	92	768	1,124	1,892
	7	788	107	895	1,311	2,206
	8	901	122	1,023	1,498	2,521
	9	1,013	138	1,151	1,686	2,837
	10+	1,126	153	1,279	1,873	3,152

UBP/June 1, 1990

THE OHIO STATE UNIVERSITY
1990-91 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Graduate Professional						
Medicine	0	125	10	135	253	388
(Fees Per Quarter)	1	250	19	269	506	775
	2	400	31	431	810	1,241
	3	599	46	645	1,215	1,860
	4	799	61	860	1,620	2,480
	5	999	77	1,076	2,026	3,102
	6	1,199	92	1,291	2,431	3,722
	7	1,399	107	1,506	2,836	4,342
	8	1,598	122	1,720	3,241	4,961
	9	1,798	138	1,936	3,646	5,582
	10+	1,998	153	2,151	4,051	6,202
Dentistry	0	101	10	111	226	337
Optometry	1	201	19	220	452	672
Veterinary Medicine	2	322	31	353	724	1,077
(Fees Per Quarter)	3	483	46	529	1,085	1,614
	4	644	61	705	1,447	2,152
	5	805	77	882	1,809	2,691
	6	966	92	1,058	2,171	3,229
	7	1,127	107	1,234	2,533	3,767
	8	1,288	122	1,410	2,894	4,304
	9	1,449	138	1,587	3,256	4,843
	10+	1,610	153	1,763	3,618	5,381

UBP/June 1, 1990

THE OHIO STATE UNIVERSITY
1990-91 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non-Resident Tuition	Non-Resident Total
Regional Campuses						
Undergraduate	0	53	8	61	64	125
	1	105	15	120	128	248
	2	131	23	154	256	410
	3	157	31	188	383	571
	4	209	41	250	511	761
	5	262	51	313	639	952
	6	314	62	376	767	1,143
	7	366	72	438	894	1,332
	8	419	82	501	1,022	1,523
	9	471	92	563	1,150	1,713
	10	523	103	626	1,278	1,904
	11	576	113	689	1,405	2,094
	12*	628	123	751	1,533	2,284
Graduate	0	60	8	68	88	156
	1	119	15	134	176	310
	2	191	25	216	352	568
	3	286	37	323	528	851
	4	382	49	431	704	1,135
	5	477	62	539	881	1,420
	6	572	74	646	1,057	1,703
	7	668	86	754	1,233	1,987
	8	763	98	861	1,409	2,270
	9	859	111	970	1,585	2,555
	10*	954	123	1,077	1,761	2,838

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.

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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.

Present: Shirley D. Bowser, Chairperson, Hamilton J. Teaford, John J. Barone, John W. Kessler, Milton A. Wolf, Alex Shumate, Theodore S. Celeste, Sophia L. Paige, and David A. Tonnies.

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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.

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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.

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Mrs. Bowser reconvened the meeting at 8:35 p.m.

Present: Shirley D. Bowser, Chairperson, Hamilton J. Teaford, John J. Barone, John W. Kessler, Milton A. Wolf, Alex Shumate, Theodore S. Celeste, Sophia L. Paige, and David A. Tonnies.

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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.

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 soar! 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

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Zeigler, Cody, Summit Station, OH.....	937,974
Zimmerman, Woodford, Memorial Scholarship Fund (The).....	933
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