MINUTES OF THE MEETING
of the
MICHIGAN STATE UNIVERSITY
BOARD OF TRUSTEES
February 3, 1978

Acting President Harden called the meeting to order in the Board Room in the Administration Building at 9:10 a.m.

Present: Trustees Carrigan, Bruff, Radcliffe, Smydra, Stack, and Stevens; Acting President Harden, Provost Winder, Executive Vice President Breslin, Vice Presidents Cantlon, Carr, Nonnamaker, Perrin, Scott, and Wilkinson, Secretary Ballard; Faculty Liaison Group, Student Liaison Group.

Absent: Trustees Krolkowski and Martin.

1. Approval of Proposed Agenda

Trustee Bruff moved the adoption of the agenda with the addition of two items: a resolution regarding the University's lettuce and grape purchase policy, and action regarding the procedure for the selection of a president. Motion seconded by Trustee Radcliffe and unanimously approved.

2. Approval of December 8-9 Minutes

On motion by Trustee Bruff, seconded by Trustee Radcliffe, it was unanimously voted to approve the December 8-9, 1977 Minutes.

Public Comments;

Arrest of Sami Esmail

Comments regarding the case of Sami Esmail, MSU Electrical Engineering graduate student, who is being held in Israel on charges of membership in an unlawful organization and contacts with foreign agents, were made by Sheldon Axler, Assistant Professor, Mathematics; Robert Barr, Associate Professor, Electrical Engineering and Systems Science; Richard Roppel, Associate Professor, Biomechanics; Rabbi Daniel Allen, Director of the B’nai B’Rith Hillel Foundation; and Jan Heller, State Director of the Youth Institute for Peace in the Middle East. Copies of materials distributed by several of these speakers are filed in the Secretary's Office.

East Lansing-Meridian Township Boundary Lines

Mark Grebner, MSU student and Ingham County Commissioner, spoke regarding the complications resulting from East Lansing-Meridian Township boundary lines which, in some cases, separate rooms in the east dormitory complex. Mr. Grebner suggested that the University initiate efforts to establish Hagadorn Road as the East Lansing-Meridian Township boundary line in this area.

ASMSU Structure

Mr. Jose Trevino spoke on behalf of a coalition of minority student groups who feel they are inadequately represented in the undergraduate student government structure.

Expression of Appreciation to Trustee Smydra

Graduate student Pat Muldoon thanked Trustee Smydra for his assistance in clearing up her residency status.

Recessed at 9:58 a.m.

The Board's Investment Committee and Affirmative Action Committee met during the recess.

The Trustees reconvened in the Board Room in the Administration Building at 1:45 p.m., Acting President Harden presiding.

Present: Trustees Carrigan, Bruff, Krolkowski, Radcliffe, Smydra, Stack, and Stevens; Acting President Harden, Provost Winder, Executive Vice President Breslin, Vice Presidents Cantlon, Carr, Nonnamaker, Perrin, Scott, and Wilkinson, Secretary Ballard; Faculty Liaison Group, Student Liaison Group.

Absent: Trustee Martin.

1. Procedure for Selecting the President of the University

Acting President Harden called on Professor Gwen Norrell, Chairperson of the Academic Council Steering Committee, who reported that the "Procedure for Selecting the President of the University" had been approved by the Academic Council on January 10, 1978. Copies of this document had been distributed to the Trustees. Professor John F. A. Taylor, Chairperson of the ad hoc committee which was established to develop these
Procedure for Selecting the President of the University, cont. February 3, 1978

procedures, pointed out changes which had been made in the document since the Trustees had last discussed it at the December 8-9 Board meeting.

Trustee Carrigan, supported by Trustee Stack, moved the adoption of the "Procedure for Selecting the President of the University" as approved by the Academic Council January 10, 1978 (copy on file in the Secretary's Office).

Trustee Bruff had proposed several amendments to this document in a memorandum to the Trustees dated January 23, 1978 (copy on file in the Secretary's Office).

After briefly explaining the reasons for his proposed amendments, Trustee Bruff moved their adoption. Motion seconded by Trustee Krolikowski.

Trustee Stack, supported by Trustee Radcliffe, offered as a friendly amendment the following addition to Trustee Bruff's proposed addition to Section 3.5.1: "The Committee shall prepare and the Board approve the rating system prior to consideration of any nominee."

This amendment was accepted by Trustees Bruff and Krolikowski.

The amendments in toto were approved by a vote of 7 to 0.

The procedures as amended were approved by a vote of 5 to 2. Trustees Radcliffe and Smydra voted No.

A. PERSONNEL CHANGES

Resignations


2. Katrina W. Simmons, Assistant Professor, Communication, August 31, 1978.


4. Russell S. Harmon, Assistant Professor, Geology, December 31, 1977, to accept a position as director of Scottish Universities Reactor Centre.

5. Cancellation of appointment of Arlene E. Sierra as Specialist, Radiology, effective November 1, 1976 through October 31, 1977.

6. Gerald E. Grove, Assistant Professor, Urban Planning and Landscape Architecture, August 31, 1978, to return to private interests.


8. Thomas G. Bahr, Associate Professor, Fisheries and Wildlife and Associate Professor and Director, Institute of Water Research, March 6, 1978, to accept the directorship of the New Mexico Water Research Institute.

Sabbatical Leaves

1. Frederick D. Williams, Professor, History, and Adjunct Professor, Military Science, with full pay, from April 1, 1978 through June 30, 1978, to complete the fourth volume of the Garfield Diary.

2. James F. Niblock, Professor and Chairman, Music, with full pay, from April 1, 1978 through June 30, 1978, to study in East Lansing.

3. Joseph I. Donohoe, Associate Professor, Romance and Classical Languages, with full pay, from September 1, 1978 through December 31, 1978, to study and write.

4. Richard C. Henshaw, Professor, Management, with half pay, from September 1, 1978 through August 31, 1979, to study and write in East Lansing and travel in Switzerland.

5. Donald A. Taylor, Professor and Chairman, Marketing and Transportation Admin., full pay, from January 1, 1978 through March 31, 1978, to study in Michigan.


7. William A. Mehrens, Professor, Counseling, Personnel Services and Educational Psychology, with full pay, from September 15, 1978 through March 14, 1979, to study at home.

8. Vivian A. Stevenson, Associate Professor, Elementary and Special Education, with full pay, from January 1, 1978 through March 31, 1978, to study in East Lansing.

A. PERSONNEL CHANGES, cont.  

Sabbatical Leaves, cont.

10. Peter G. Haines, Professor, Secondary Education and Curriculum, and Business Law and Office Administration, with full pay, from January 5, 1978 through July 4, 1978, to study at home and visit centers in the United States related to marketing and education for distribution.


13. Richard H. Rech, Professor, Pharmacology, with half pay, July 15, 1978 through June 30, 1979, to study at the Mario Negri Research Institute, Milan, Italy.


15. Joseph Patterson, Professor, Community Health Science, with full pay, February 1, 1978 through July 31, 1978, for research and travel.

16. Gary A. Manson, Associate Professor, Geography, with full pay, April 1, 1978 through June 30, 1978, to study in East Lansing.

17. Lucy R. Ferguson, Professor, Psychology, with half pay, September 1, 1978 through August 31, 1979, to study at the University of California, Berkeley, and/or Stanford University.

18. Arthur Seagull, Professor, Psychology, with half pay, January 1, 1979 through June 30, 1979, to study.

19. Michael Steinberg, Assistant Professor, American Thought and Language, with full pay, April 1, 1978 through June 30, 1978, to study in Lansing.


Medical Leaves


Other Leaves


2. Philip A. Seitz, Extension 4-H Youth Agent, Saginaw, Midland, and Bay Counties, with full pay, March 27, 1978 through June 9, 1978, to study at MSU.


4. Vernon L. Sorenson, Professor, Agricultural Economics, without pay, December 1, 1977 through December 15, 1977, to serve as consultant at the USDA, Washington, D.C.

5. Mary L. Schneider, Assistant Professor, Religious Studies, without pay, September 1, 1978 through December 31, 1978, to study in Milwaukee, Wisconsin.

6. Louell F. Snow, Associate Professor, Anthropology and Community Health Science, without pay, January 1, 1978 through March 31, 1978, to serve as Visiting Associate Professor at the University of California, Berkeley.

7. Gerald A. Smith, Professor, Physics, without pay, January 16, 1978 through January 15, 1979, to serve as Associate Laboratory Director for High Energy Physics, Argonne National Laboratory, Argonne, Illinois.

8. Robert J. Robbins, Assistant Professor, Biological Science Program and Zoology, without pay, March 1, 1978 through August 31, 1978, to study at the University of California, Davis.
A. PERSONNEL CHANGES, cont.

February 3, 1978

Other Leaves, cont.

9. Leon H. Weaver, Professor, School of Criminal Justice, January 1, 1978 through April 30, 1978, no pay, to study and travel in Central and South America and the Caribbean.

Transfers and Changes in Assignment

1. Transfer Dale H. Brose, Extension 4-H Youth Agent, from Branch, Hillsdale, and Calhoun Counties to Monroe, Lenawee, and Washtenaw Counties, with an increase in salary to $18,150 per year on a 12-month basis, effective February 1, 1978.

2. Change Sharon L. Fortino, Extension Home Economist, Gratiot, Clinton, and Shiawassee Counties, from 100% time at a salary of $13,400 per year to 50% time at a salary of $6,700 per year on a 12-month basis, effective October 15, 1977.

3. Transfer Ray B. Gummerson from District Extension Leader, Resource Development, Upper Peninsula, to Regional Extension Supervisor and Regional Director Continuing Education, Cooperative Extension Service, with an increase in salary to $28,000 per year on a 12-month basis, effective December 1, 1977.

4. Change John M. Middleton, Extension 4-H Youth Agent, Marquette, Houghton, and Baraga Counties, from 50% time at a salary of $6,250 per year to 60% time at a salary of $7,500 per year on a 12-month basis, effective February 1, 1978, through March 31, 1979.

5. Transfer Thomas L. Thorburn from County Extension Director, Lapeer County, to Program Leader, Agriculture-Marketing Programs, Cooperative Extension Service, with an increase in salary to $22,000 per year on a 12-month basis, effective February 1, 1978.


7. Additional assignment for Robert F. Blanks, Associate Professor, Chemical Engineering and Engineering Research, to Food Science and Human Nutrition, and change from a 10-month basis at a salary of $22,200 per year to a 12-month basis, at a salary of $27,750 per year, effective January 1, 1978.

8. Change Chester J. Mackson from Professor and Director, School of Packaging, to Professor, Agricultural Engineering, and Director, School of Packaging, effective January 1, 1977.

9. Change Phillip L. Carter from Associate Professor, Management, at a salary of $22,900 per year on a 10-month basis, to Associate Professor and Chairman, Management, at a salary of $29,825 per year on a 12-month basis, effective January 1, 1978, and change ending date of leave from August 31, 1978 to April 30, 1978.

10. Change Richard Gonzalez from Professor and Chairman, Management, at a salary of $40,000 per year on a 12-month basis, to Professor, Management, at a salary of $32,000 per year on a 10-month basis, effective January 1, 1978.

11. Change of status for James F. Scotton, Associate Professor, Journalism, from in the tenure system to with tenure, effective December 1, 1977.


13. Change in departmental assignment for Doris E. Weters, Professor, from Human Ecology to Family Ecology, effective May 1, 1975. Assignment as Assistant Director of Extension for Family Living Education Programs, Cooperative Extension Service, is unchanged.

14. Change Arthur F. Kohrman from Professor and Associate Chairman, Human Development, and Professor, Dean of Human Medicine and Medical Education Research Development at a salary of $42,750 per year, to Professor, Human Development and Medical Education Research and Development, and Associate Dean for Educational Programs, Dean of Human Medicine, at a salary of $45,000 per year on a 12-month basis, effective November 1, 1977.

15. Additional assignment for Scott N. Swisher, Professor, Medicine, as Associate Dean for Research, Dean of Human Medicine, effective January 1, 1978.

16. Change William Tai, Associate Professor, Botany and Plant Pathology, from a 10-month basis at a salary of $19,900 per year to a 12-month basis at a salary of $24,875 per year, effective September 1, 1977 through September 30, 1977, and to a 12-month basis at a salary of $26,250 per year effective October 1, 1977.

17. Change beginning date of appointment of Stuart H. Gage as Assistant Professor and Extension Specialist, Entomology, from October 10, 1977 to January 1, 1978.

18. Change of assignment for Loudell F. Snow, Associate Professor, from Anthropology and Community Health Science to Anthropology, only, effective January 1, 1978.

Personnel Changes

Transfers and Changes in Assignment

Clarence W. Minkel

James B. Hamilton

Salary Changes

A. PERSONNEL CHANGES, cont.

February 3, 1978:

Transfers and Changes in Assignment, cont.

20. Additional assignment for Clarence W. Minkel, Professor, Geography, and Associate Dean, International Studies and Programs, as Professor, The Graduate School, effective September 1, 1977

21. Discontinue assignment of James B. Hamilton, Associate Professor, Chemistry, and Assistant Provost for Special Programs, Provost's Office, as Assistant Dean, The Graduate School, effective January 1, 1978.

Salary Changes

1. Increase in salary for Garson H. Tishkoff, Professor, Medicine, to $56,100 per year on a 12-month basis, effective October 1, 1977.

2. Increase in salary for Donato Magistro, Specialist, MSU/NSF Heavy Ion Laboratory, to $17,750 per year on a 12-month basis, effective January 1, 1978.

3. Increase in salary for Janver Krehbiel, Associate Professor, Pathology, to $30,495 per year on a 12-month basis, effective January 1, 1978.

4. Increase in salary for Clarence W. Minkel, Professor, Geography, and The Graduate School, and Associate Dean, International Studies and Programs, to $40,000 per year on a 12-month basis, effective October 1, 1977.

5. Increase in salary for Suzann P. Jude, Specialist, University Archives and Historical Collections, to $11,380 per year on a 12-month basis, effective October 1, 1977.

6. Increase in salary for Nancy C. Elliott, Director of Investments and Trusts AP-16, to $27,000 per year on a 12-month basis, effective January 1, 1978.

7. Increase in salary for Darryl D. Rogers, Head Football Coach, Intercollegiate Athletics, to $39,000 per year on a 12-month basis, effective January 15, 1978 through March 31, 1981.

Appointments

1. Earl Joseph Beiler, Extension Agricultural Agent, Sanilac County, at a salary of $14,000 per year on a 12-month basis, effective February 1, 1978.

2. Leslie Anne Brook, County Extension Home Economist, Genesee County, at a salary of $12,500 per year on a 12-month basis, effective February 1, 1978 through December 31, 1979.


4. Daniel G. Blackledge, Extension 4-H Youth Agent, Clare, Gladwin, Crawford, and Roscommon Counties, at a salary of $14,750 per year on a 12-month basis, effective February 1, 1978.

5. Peggy Joyce Houck, Extension Home Economist, Sanilac and Tuscola Counties, at a salary of $12,500 per year on a 12-month basis, effective February 15, 1978.

6. Douglas J. Jardine, Extension 4-H Youth Agent, Branch, Calhoun, Jackson, and Hillsdale Counties, at a salary of $12,000 per year on a 12-month basis, effective February 1, 1978.

7. Deborah Lynn Johnson, Extension Home Economist, Alger County, 50% time, at a salary of $7,750 per year on a 12-month basis, effective February 1, 1978.

8. John M. Middleton, Extension 4-H Youth Agent, Marquette, Houghton, and Baraga Counties, 50% time, at a salary of $6,250 per year on a 12-month basis, effective January 1, 1978 through March 31, 1979.

9. Laurie Jo Spezia, Extension Home Economist, Genesee County, at a salary of $12,000 per year on a 12-month basis, effective February 1, 1978.

10. Charles Kenneth Baker, Professor, Agricultural Economics, at a salary of $30,000 per year on a 12-month basis, effective January 1, 1978 through December 31, 1979.

11. Clarence Alan Rotz, Assistant Professor, Agricultural Engineering, in the tenure system, at a salary of $20,000 per year on a 12-month basis, effective January 1, 1978.

12. Hsing-Jien Kung, Assistant Professor, Biochemistry, in the tenure system, at a salary of $20,000 per year on a 12-month basis, effective February 13, 1978.

13. David R. L. Gabbart, Assistant Professor, Accounting and Financial Administration, in the tenure system, at a salary of $22,000 per year on a 10-month basis, effective January 1, 1978.

14. Yosi Ben-Dov, Assistant Professor, Management, in the tenure system, at a salary of $17,000 per year on a 10-month basis, effective January 1, 1978.
A. PERSONNEL CHANGES, cont.  

Appointments, cont.  

February 3, 1978  

15. Barbara D. Ames, Assistant Professor and Core Studies Program Coordinator, Human Environment and Design and Dean's Office, College of Human Ecology, in the tenure system, at a salary of $18,000 per year on a 12-month basis, effective January 1, 1978.

16. Thomas S. Harle, Professor, Radiology, with tenure, at a salary of $55,000 per year on a 12-month basis, effective January 1, 1978.

17. Shelagh M. F. Ferguson-Miller, Assistant Professor, Biochemistry, in the tenure system, at a salary of $20,000 per year on a 12-month basis, effective February 13, 1978.

18. Patricia L. Peek, Assistant Professor, Nursing, in the tenure system, at a salary of $17,900 per year on a 12-month basis, effective January 1, 1978.

19. Arlene E. Sierra, Specialist, Radiology, in the job security system, at a salary of $16,000 per year on a 12-month basis, effective November 1, 1976.

20. Paul T. Magee, Professor and Chairman, Microbiology and Public Health, with tenure, at a salary of $41,000 per year on a 12-month basis, effective December 1, 1977.

21. W. Emmett Braselton, Jr., Associate Professor, Animal Health Diagnostic Laboratory, and Pharmacology, in the tenure system, at a salary of $28,000 per year on a 12-month basis, effective February 1, 1978.

22. Leo B. Jeffcott, Associate Professor, Large Animal Surgery and Medicine, in the tenure system, at a salary of $30,000 per year on a 12-month basis, effective February 1, 1978.

23. Marie T. Emery, Specialist, Highway Traffic Safety Center, at a salary of $18,000 per year on a 12-month basis, effective January 1, 1979 through December 31, 1980.

24. James R. Lowrey, Librarian I, Libraries, subject to Librarian continuing appointment system, at a salary of $11,250 per year on a 12-month basis, effective February 1, 1978.


26. Linda S. Schweizer, Librarian I, Libraries, subject to Librarian continuing appointment system, at a salary of $13,000 per year on a 12-month basis, effective February 1, 1978.

27. Darryl D. Rogers, Head Football Coach, Intercollegiate Athletics, subject to contract, at a salary of $39,000 per year on a 12-month basis, effective April 1, 1981 through March 31, 1983.


On motion by Trustee Stevens, seconded by Trustee Carrigan, it was unanimously voted to approve the Resignations, Leaves, Transfers and Changes in Assignment, Salary Changes, and Appointments.
A. Personnel Changes, cont.  

Special Change in Assignment  

1. Change Armand L. Hunter from Acting Dean to Dean, Lifelong Education Programs, effective January 1, 1978; other assignments as Professor, Administration and Higher Education, and Director, Continuing Education Service are unchanged.

On motion by Trustee Radcliffe, seconded by Trustee Stack, it was unanimously voted to approve the above change.

Personnel Recommendations  

It is recommended that the following positions be established:

1. Assistant Editor A-P 8 for the Social Science Research Bureau, College of Social Science  
2. Laboratory Research Technician II C-T 9 for the Animal Health Diagnostic Laboratory  
3. Senior Occupational Safety Inspector A-P 11 for Safety Services, Department of Public Safety  
4. Chemical and Biohazards Safety Officer A-P 11 for Radiation, Chemical and Biological Safety Program  
5. Senior Administrative Secretary A-P 10 for Vice President for Legal Affairs  
6. Development Officer A-P 12 for Vice President for Development  

On motion by Trustee Carrigan, seconded by Trustee Bruff, it was unanimously voted to approve the Personnel Recommendations.

B. Gifts and Grants  

1. Gifts as follows to be added to the Kresge Art Center Gallery permanent collection:  
   a. Several lithographs, etchings, and an engraving with a total value of $1,220 from Dr. and Mrs. Christopher A. Graf, Sheboygan, Wisconsin  
   b. Several lithographs and an etching with a total value of $1,300 from Dr. and Mrs. Frederick P. Nause, Sheboygan, Wisconsin  
   c. "Shoot" - an album of five original signed and numbered serigraphs by Richard Lindner valued at $8,000 from Frederick E. Sherman, New York, N.Y.  
   d. "Four Pyramids," lithograph by Alexander Calder valued at $1,500 and Julio Le Parc sculpture valued at $6,500 from Martin Weissman, Southfield.

2. Gift of a Wilcycle valued at $225 from Chester I. Williams, Grand Rapids, to be used for demonstration purposes under the direction of the Dean's Office, College of Engineering.

3. Gifts as follows for the Chemistry Department:  
   a. U.S. Nuclear Corp. variable flux irradiator valued at $20,000 from Dow Corning Corp., Midland, to be used for research under the direction of M. T. Rogers and other faculty members.  
   b. Picker NR-2 X-ray unit S/N 859 and transformer with a total value of $2,500 from Alfred M. Lucas, Grand Ledge, to be used to produce radiation damage in chemicals under the direction of M. T. Rogers.

4. Gift of a rotor, gas chromatograph, absorbance detector, fractionator, and water bath with a total value of $7,136 from the University of Wisconsin-Madison, to be used for research under the direction of P. Matsumura in the Pesticide Research Center.

5. Miscellaneous gifts as per list in the Secretary's Office with a total value of $19,153 from various donors for research and display in The Museum.

6. Gift of books with a total value of $299.15 from Dr. and Mrs. Clark Paris, East Lansing, for Campus Park and Planning for use at the Hidden Lake Gardens Library.

7. Gift of a Snapper garden tiller valued at $192.02 from William H. Powasser, East Lansing, to be used to prepare plant beds by Grounds Maintenance, Campus Park and Planning.

8. Grants to be used for scholarship purposes as follows:  
   a. $1,000 from The Farmers' Advance, Inc., Camden, for students in the College of Agriculture and Natural Resources  
   b. $5,000 (100 shares Exxon Corp. stock and $125 cash) from Henry L. Calkins, Detroit, for recipients to be selected by the Institute of Agricultural Technology  
   c. $2,000 from the Burroughs Corp., Detroit, for two students in the College of Engineering  
   d. $22,231 from the General Motors Corp., Detroit, to assist students in the College of Engineering under the GM scholarship plan for the academic year 1977-78  
   e. $1,500 from the Ingham County Medical Society, East Lansing, for three recipients to be chosen by the Office of Financial Aids and the College of Human Medicine  
   f. $25 from Irving R. Wyeth and Barbara Powers Wyeth for the Community Volunteers for International Programs Scholarship Fund.

9. Grants as follows to the MSU Development Fund:  
   a. $1,265,959.43 from alumni and friends to underwrite the continuing programs supported by annual allocations from the MSU Development Fund. Dollars have been transferred to appropriate accounts.

10. Grant of $130 from the National 4-H Council, Washington, D.C., as a travel gift for the Teens and Community Service, Extension 4-H Youth.
B. GIFTS AND GRANTS, cont.  

February 3, 1978

11. Grant of $1,380 from the National 4-H Council, Washington, D.C. to be used under the direction of N. A. Brown in Extension 4-H Youth for sponsorship for the North Central 4-H Leaders Forum held at Ames, Iowa, November 17-20, 1977.

12. Grant of $8,228.07 from the Michigan 4-H Foundation, East Lansing to be used under the direction of N. A. Brown in Extension 4-H Youth.

13. Grant of $100 from the Michigan State Horticultural Society, Milan, to be used under the direction of N. A. Brown in Extension 4-H - Youth as a contribution to the National Junior Horticulture Association.

14. Grant of $3,723.50 from the National 4-H Council, Chicago, Ill. to be used under the direction of N. A. Brown in Extension 4-H Youth for a trip to the National 4-H Congress, November 27-December 1, 1977.

15. Grant of $1,652.91 from Canners Machinery Limited, Simcoe, Ontario, Canada, to be used under the direction of C. M. Hansen in Agricultural Engineering to improve a mechanical strawberry harvester/capper.

16. Grant of $500 from the Detroit Edison Co., Detroit, to be used under the direction of C. M. Hansen in Agricultural Engineering for planning and implementation of the 9th International Commission of Agricultural Engineering meeting to be held at MSU July 7-12, 1979.

17. Grant of $1,040 from the Michigan Onion Growers Association to be used under the direction of B. F. Cargill in Agricultural Engineering for a pilot onion storage study in the department.

18. Grant of $76,871.36 from Purdue University, West Lafayette, Ind., to be used under the direction of E. R. Miller in Animal Husbandry to test the use of flash dried blood meal (FDBM) as a source of lysine and other EAA in swine rations and to determine the bioavailability of iron and the availability of zinc in FDBM rations.

19. Grant of $7,500 from the Thumb Cooperative Terminal, Inc., Elkton, Mich., to be used under the direction of Fred W. Bakker-Arkema in Agricultural Engineering, for grain dryer research.

20. Grant of $20,434 from the U.S. Department of Agriculture, Washington, D.C. to be used under the direction of Fred W. Bakker-Arkema in Agricultural Engineering, for a feasibility study of solar water heating in food processing plants in the midwestern United States, Phase II - design and testing of a pilot scale system.

21. Grant of $3,000 from the Fats and Proteins Research Foundation, Inc., Des Plaines, Ill., to be used under the direction of E. R. Miller in Animal Husbandry to determine if nursing pigs receive a taste imprint in the milk from a flavor ingredient in the dam's diet which will influence post weaning food preference.

22. Grant of $10,000 from the United States Brewers Association, Inc., Washington, D.C., to be used under the direction of M. T. Yokoyama in Animal Husbandry for research on the Utilization of Wet Brewer's Yeast by Cattle II; digestibility and nitrogen balance studies.

23. Grant of $9,100 from the National Science Foundation to be used under the direction of Steven D. Aust in Biochemistry for research on the scientific aspects of poly-precipitated biphenyls.

24. Grant of $300 from the BASF Wyandotte Corp., Parsippany, N.J., to be used under the direction of H. S. Potter in Botany and Plant Pathology to study the effect of experimental growth regulation on stored potatoes with respect to disease control and quality.

25. Grant of $500 from the Kocide Chemical Corp., Houston, Texas, to be used under the direction of E. R. Miller in Animal Husbandry to test the use of flash dried blood meal (FDBM) as a source of lysine and other EAA in swine rations and to determine the bioavailability of iron and the availability of zinc in FDBM rations.

26. Grant of $500 from Nor-Am Agricultural Products, Inc., Woodstock, Ill., to be used under the direction of D. C. Ramsdell in Botany and Plant Pathology to defray expenses incurred in grape nematode control research.
### February 3, 1978

#### B. GIFTS AND GRANTS, cont.

<table>
<thead>
<tr>
<th>Grant Number</th>
<th>Grant Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.</td>
<td>Grant of $1,000 from the Thompson-Hayward Chemical Co., Kansas City, Kansas, to be used under the direction of H. S. Potter in Botany and Plant Pathology for an evaluation of the irrigation method of applying fungicides for control of sugar beet and potato diseases.</td>
</tr>
<tr>
<td>31.</td>
<td>Grant of $2,422.50 from the Beet Sugar Development Foundation, Ft. Collins, Colorado, to be used under the direction of G. Hogaboam in Crop and Soil Sciences as continuing support of sugar beet research.</td>
</tr>
<tr>
<td>32.</td>
<td>Grant of $75 from the Carriage Hill North Condominium Assoc., East Lansing, to be used under the direction of J. Kaufmann in Crop and Soil Sciences for travel for a student for turfgrass sectional meetings and supplies.</td>
</tr>
<tr>
<td>33.</td>
<td>Grant of $500 from the Chevron Chemical Co., San Francisco, Cal., to be used under the direction of R. Leep in Crop and Soil Sciences for weed control in alfalfa — support of existing research.</td>
</tr>
<tr>
<td>34.</td>
<td>Grant of $5,000 from the Great Lakes Hybrids, Inc., Ovid, to be used under the direction of E. C. Rossman in Crop and Soil Sciences for continuing corn research.</td>
</tr>
<tr>
<td>35.</td>
<td>Grant of $23,305.66 from the Estate of Robert W. Hancock to be used under the direction of D. Harpstead in Crop and Soil Sciences for turfgrass research and development.</td>
</tr>
<tr>
<td>36.</td>
<td>Grants totaling $8,000 from the Michigan Bean Commission, Lansing, to be used under the direction of A. J. M. Smucker in Crop and Soil Sciences for continuing bean research.</td>
</tr>
<tr>
<td>37.</td>
<td>Grant of $3,500 from the Michigan Bean Commission, Lansing, to be used under the direction of A. E. Erickson in Crop and Soil Sciences for continuing bean research.</td>
</tr>
<tr>
<td>38.</td>
<td>Grant of $2,500 from Ore-Ida Foods, Inc., Greenville, to be used under the direction of R. Chase in Crop and Soil Sciences to support ongoing potato research.</td>
</tr>
<tr>
<td>39.</td>
<td>Grant of $500 from Purdue University, Lafayette, Ind., to be used under the direction of M. M. Mortland in Crop and Soil Sciences for support of existing research.</td>
</tr>
<tr>
<td>40.</td>
<td>Grant of $20,440 from the U.S. Department of Agriculture to be used under the direction of R. F. Ruppel in Entomology for the pesticide impact assessment program.</td>
</tr>
</tbody>
</table>

#### Grants to Various Institutions: March 1978

<table>
<thead>
<tr>
<th>Grant Number</th>
<th>Grant Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Grant of $1,460 from the Michigan Onion Growers Assoc. to be used under the direction of J. E. Bath in Entomology for study of onion maggot research.</td>
</tr>
<tr>
<td>2.</td>
<td>Grant of $20,440 from the U.S. Department of Agriculture to be used under the direction of Z. F. Ruppel in Entomology for the pesticide impact assessment program.</td>
</tr>
<tr>
<td>3.</td>
<td>Grant of $17,495 from the American Dairy Association of Michigan, Lansing, to be used under the direction of J. T. Huber in Dairy Science for research on the influence of diet on the performance of lactating dairy cows.</td>
</tr>
<tr>
<td>4.</td>
<td>Grant of $3,353.50 from the Michigan Dairy Herd Improvement Assoc., Inc., Lansing to be used under the direction of H. D. Hafs in Dairy Science to support a dairy fieldman position.</td>
</tr>
<tr>
<td>5.</td>
<td>Grant of $250 from the National Association of Animal Breeders, Columbia, Mo., to be used under the direction of H. D. Hafs in Dairy Science to perform research in the area of dairy reproduction.</td>
</tr>
<tr>
<td>6.</td>
<td>Grant of $120 from various donors to be used under the direction of H. D. Hafs in Dairy Science for the Michigan Dairy Memorial Scholarship Fund.</td>
</tr>
<tr>
<td>7.</td>
<td>Grant of $2,250 from the National Association of Animal Breeders, Columbia, Mo., to be used under the direction of H. D. Hafs in Dairy Science to support a dairy fieldman position.</td>
</tr>
<tr>
<td>8.</td>
<td>Grant of $1,600 from the William B. Merkton Chapter of Trout Unlimited, Saginaw, to be used under the direction of R. J. White in Fisheries and Wildlife for the investigation of trout population on the Cedar, Sugar and Tobacco Rivers in Gladwin County, Michigan.</td>
</tr>
<tr>
<td>9.</td>
<td>Grant of $11,400 from the Michigan Audubon Society, Kalamazoo, to be used under the direction of L. W. Gysel in Fisheries and Wildlife for research on the noise impacts on wildlife (small animals).</td>
</tr>
<tr>
<td>10.</td>
<td>Grant of $500 from the Michigan Water Resources, Lansing, to be used under the direction of H. H. Prince in Fisheries and Wildlife for the continuation of the second phase of the Woodcock Populations Study, Houghton Lake, in developing and testing a habitat model for woodcock in Michigan. Assistantship support for Dale Rabe and part-time labor.</td>
</tr>
</tbody>
</table>
51. Grant of $6,500 from the American Can Co., Greenwich, Conn., to be used under the direction of R. C. Chandan in Food Science and Human Nutrition to determine the effect of vacuum packaging on the quality of cheese and cheese analogs.

52. Grant of $50 from the Michigan Brown Swiss Assoc., Springport, to be used under the direction of L. G. Harmon in Food Science and Human Nutrition to defray costs of the American Dairy Science – American Association of Animal Science meeting to be held at MSU, summer 1978.

53. Grant of $500 from The Upjohn Co., Kalamazoo, to be used under the direction of L. G. Harmon in Food Science and Human Nutrition to defray costs of the American Dairy Science – American Association of Animal Science meeting to be held at MSU, summer 1978.

54. Grant of $15,784 from the Muscular Dystrophy Assoc., Inc., New York, N.Y., to be used under the direction of R. B. Young in Food Science and Human Nutrition to measure synthesis and degradation rates of individual myofibrillar proteins in developing muscle cells in cell culture.

55. Grant of $200 from the Ohio Agricultural Research Development Center, Wooster, Ohio, to be used under the direction of J. R. Brunner in Food Science and Human Nutrition for analytical services performed and will be used for supplies, etc.

56. Grant of $2,250 from the American Hoechst Corp., Sommerville, N.J., to be used under the direction of A. R. Putnam in Horticulture to support ongoing research with herbicides for horticultural crops.

57. Grant of $2,500 from the CIBA-GEIGY Corp., Greensboro, N.C., to be used under the direction of A. R. Putnam in Horticulture to support herbicide research programs in progress relating to horticultural crops.

58. Grant of $400 from Wm. Bolthouse Farms, Inc., Bakersfield, Cal., to be used under the direction of L. Baker in Horticulture to support ongoing carrot breeding program.

59. Grant of $2,000 from the Union Seed Co., Nampa, Idaho, to be used under the direction of L. Baker in Horticulture to support ongoing carrot breeding programs.

60. Grant of $100 from the GCM Community Projects Fund, Garden Club of Michigan, Grosse Pointe, to be used under the direction of W. Carlson in Horticulture to support ongoing bedding plant programs.

61. Grant of $2,500 from the Michigan State Florists Assoc., Haslett, to be used under the direction of W. Carlson in Horticulture to support ongoing bedding plant research.

62. Grant of $500 from the Gerber Products Co., Fremont, to be used under the direction of D. R. Dilley in Horticulture for research on optimum maturity and ripening processes of the Spartlett pear.

63. Grant of $4,250 from the Joseph H. Hill Memorial Foundation, Inc., Haslett, to be used under the direction of H. P. Rasmussen in Horticulture to support continuing investigations of cytological changes occurring in rose stems during the cut flower life.

64. Grant of $2,000 from the International Dwarf Fruit Tree Fruit Assoc., Hartford, to be used under the direction of R. P. Carlson in Horticulture for the education and dissemination of research results pertaining to scion/rootstock relationship of fruit trees.

65. Grant of $1,000 from the Michigan Apple Committee, Lansing, to be used under the direction of D. H. Dewey in Horticulture to support the program in progress to improve internal quality of apples for fresh market and processing.

66. Grant of $1,500 from the National Grape Cooperative Assoc., Inc., Westfield, N.Y., to be used under the direction of S. Howell in Horticulture to support research in progress on grapes with emphasis on Niagara Maturity Evaluation.

67. Grants totaling $500 from various donors to be used under the direction of J. L. Taylor in Horticulture to send delegates to the National Junior Horticultural Assoc. annual convention.

68. Grant of $200 from Walters Gardens, Inc., Zeeland, to be used under the direction of K. Sink in Horticulture to support ongoing phlox xublate research.

69. Unrestricted grants totaling $435 from various donors to be used under the direction of C. J. Mackson in Packaging for packaging education.

70. Grant of $7,000 from the Michigan Department of Natural Resources, Lansing, to be used under the direction of E. Dersch in Resource Development to develop a rational system to measure the effects and impacts of "barrier dunes" within Michigan Great Lakes and sand dune areas.

71. Grant of $13,700 from the Michigan Department of Natural Resources, Lansing, to be used under the direction of D. Brunnschweiler in Resource Development, Urban Planning and Landscape Architecture, and Geography to prepare an inventory of dune types in the high priority sand dune areas of Michigan.
Gifts and Grants

B. GIFTS AND GRANTS, cont.

February 3, 1978

72. Grant of $14,300 from the Michigan Department of Natural Resources to be used under the direction of W. R. Enslin in Resource Development and Urban Planning and Landscape Architecture to prepare an inventory of sand mining activities in the high priority sand dune areas of Michigan.

73. Grant of $174,779 from the Michigan Department of Education, Lansing, to be used under the direction of C. H. Wamhoff in the Agriculture and Natural Resources Education Institute for the vocational education curriculum articulation project.

74. Grant of $30,000 from the Michigan Department of Education, Lansing, to be used under the direction of C. Jump in the Institute of Agricultural Technology to provide training for secondary educators in the area of employability skills.

75. Grant of $6,950 from the Michigan Council for the Arts, Detroit, to be used under the direction of E. VanLiere in Art to photograph and document outdoor sculpture in the cities of Grand Rapids, Kalamazoo and Lansing to result in a photographic exhibit and guide to outdoor sculpture in each city.

76. Grant of $6,500 from the Michigan Council for the Arts, Detroit, to be used under the direction of L. Wagner in English for Life-writing for Life-living emphasizing the recording of autobiographical recollections primarily through personal writing (in some cases, however, for obvious physical reasons, orally, using tape equipment) as a means of reaffirming for each individual some sense of his or her worth as a person.

77. Grant of $18,000 from the U.S. State Department, Washington, D.C., to be used under the direction of Dennis Burk in Music for transportation expenses for International Orchestra Series guest artists.

78. Grant of $250 from Frank R. Bacon, Jr., Dean's Office, College of Business, for unrestricted use under the direction of R. J. Lewis.

79. Grant of $4,000 from the Price Waterhouse Foundation, New York, N.Y., to be used under the direction of H. M. Sollenberger in Accounting and Financial Administration for the Fellowship Fund.

80. Unrestricted grant of $50 from the American Production and Inventory Control Society, Battle Creek, to be used under the direction of P. L. Carter in Management.

81. Grant of $7,500 from General Electric, Stamford, Conn., to be used under the direction of J. Hoagland in Management for the Purchasing Development Fund.

82. Grant of $5,000 from the Shell Companies Foundation, Houston, Texas, to be used under the direction of J. H. Hoagland in Management to support development activities in purchasing.

83. Unrestricted grant of $2,000 from Brooks Products, Inc., Holland, to be used under the direction of J. W. Allen in Marketing and Transportation Administration.

84. Unrestricted grant of $200 from the Creamette Company Foundation, Inc., Minneapolis, Minn., to be used under the direction of J. W. Allen in Marketing and Transportation Administration.

85. Grant of $2,000 from the IGA Glenn Curtis Scholarship, Chicago, Ill., to be used under the direction of J. W. Allen in Marketing and Transportation Administration.

86. Grant of $12,000 from the Whirlpool Corporation, Battle Creek, to be used under the direction of D. A. Taylor in Marketing and Transportation Administration to conduct basic research in the area of logistics management, to develop teaching materials and enrich course development in the area of logistics management.

87. Grant of $350 from the Cambridge Electric Light Co., Cambridge, Mass., to be used under the direction of H. M. Trebing in the Institute of Public Utilities to support the activities of the Institute.

88. Grant of $900 from the Commonwealth Gas Co., Cambridge, Mass., to be used under the direction of H. M. Trebing in the Institute of Public Utilities to support the activities of the Institute.

89. Grant of $1,250 from the New Bedford Gas and Edison Light Co., Cambridge, Mass., to be used under the direction of H. M. Trebing in the Institute of Public Utilities to support the activities of the Institute.

90. Unrestricted grant of $90 from Bradley S. Greenberg, Okemos, to be used under the direction of E. P. Bettinghaus in the Dean's Office, College of Communication Arts and Sciences.

91. Grant of $1,000 from the American Express Co., New York, N.Y., to be used under the direction of M. Deninson in Advertising to support student research as part of ADV 475 course requirements.

92. Grant of $1,000 from the Marathon Oil Co., Findlay, Ohio., to be used under the direction of G. Miracle in Advertising to support student development and presentation of Advertising Campaign Strategy as part of ADV 486 course requirement.
93. Grant of $2,000 from Spartan Plastics, Inc., Holt, to be used under the direction of C. Mauldin in Advertising to support student research, development and presentation of Advertising Campaign Strategy as part of ADV 475 and ADV 486 course requirement.

94. Grant of $30,165 from the Rehabilitation Services Administration, Washington, D.C., to be used under the direction of Leo V. Deal in Audiology and Speech Sciences to provide traineeships in speech pathology and audiology.

95. Grants totaling $1,260 from various donors to be used under the direction of Robert Morris in Communication for the development presentation of workshops which introduce the participants to principles of effective communication and management and to the role of communication in the modernization process.

96. Grant of $1,565 from Sears, Roebuck & Co., Chicago, Ill., to be used under the direction of George A. Hough 3rd in Journalism to finance student internship in Washington, D.C., winter term 1977; awarded, by the Sears Foundation in a national journalism contest.

97. Grant of $156.95 from the Michigan Association of Elementary School Principals, East Lansing, to be used under the direction of F. R. Ignatovich and S. Hecker in Administration and Higher Education for middle and elementary school analyses.

98. Grants totaling $4,400 from various schools to be used under the direction of F. R. Ignatovich and S. Hecker in Administration and Higher Education to produce enrollment projections for specified school districts.

99. Grant of $2,000 from the American Educational Research Association, Washington, D.C., to be used under the direction of L. S. Shulman in Counseling, Personnel Services and Educational Psychology to cover expenses for the production of the Review of Research in Education, of which Dr. Shulman is editor.

100. Grant of $3,000 from the Department of Health, Education and Welfare, Washington, D.C., to be used under the direction of J. M. Layton and W. Hapkiewicz in Counseling, Personnel Services and Educational Psychology for professional preparation in the area of health education.

101. Grant of $65,765 from Region V - Office of Rehabilitation Services, Chicago, Ill., to be used under the direction of J. Engelkes in Counseling, Personnel Services and Educational Psychology to train master's level people in rehabilitation counseling.

102. Grant of $8,340 from the Michigan Department of Education, Lansing, to be used under the direction of L. Borosage in Secondary Education and Curriculum to provide two traineeships for graduate students in the State Department of Education.

103. Grant of $300 from the Michigan Council for the Social Studies, East Lansing, to be used under the direction of R. Niemeyer in Student Teaching and Professional Development to cover duplication, phone and mailing charges of the National Council for the Social Studies.

104. Grant of $1,075 from the U.S. A.I.D. Mission to Jamaica, Kingston, Jamaica, to be used under the direction of C. S. Brebeck in the Institute for International Studies in Education to enable doctoral candidate, Andrew Dunbar, to complete the final documentation requirements for his Ph.D.

105. Grant of $136,711 from the Agency for International Development (AID) to be used under the direction of C. S. Brebeck in the Institute for International Studies in Education to continue work in the non-formal education project and non-formal education information center project.

106. Grant of $5,000 from the Ford Motor Co. Fund, Dearborn, for unrestricted use under the direction of W. Gamble in the Dean's Office, College of Engineering, in the recruitment and retention of minorities and women in engineering.

107. Grant of $500 from Owens-Illinois, Toledo, Ohio, for unrestricted use under the direction of W. Baker in the Dean's Office, College of Engineering, for women's programs in Engineering.

108. Unrestricted grant of $3,500 (250 shares of Egan Machinery Co. stock) to be used under the direction of L. Von Tersch in the Dean's Office, College of Engineering, from Mr. and Mrs. W. H. Billert.

109. Grant of $33,252 from the American Water Works Assoc., Denver, Colo., to be used under the direction of D. A. Cornell in the Division of Engineering Research to develop a system for the effective recovery of aluminum from potable treatment of plant sludges.

110. Grant of $85,100 from the Office of Highway Safety Planning, Lansing, to be used under the direction of J. D. Brogan in the Division of Engineering Research to develop and implement a series of traffic engineering short courses.

111. Grant of $65,100 from the National Science Foundation to be used under the direction of J. F. Martin and W. N. Sharpe in the Division of Engineering Research to investigate experimentally the strain-concentration factors in metals subjected to cyclic loading at room and elevated temperatures.
Grant of $75,816.96 from the Wayne County Intermediate School District, Detroit, to be used under the direction of J. B. Eulenberg and M. A. Rahimi in the Division of Engineering Research to provide modern technological aids to communication for students served by Wayne County Intermediate School District who experience communication handicaps and to provide training for teachers, therapists, aides and other WCISD staff members in the use of such communication aids.

Grant of $250 from Gerber Products Co., Fremont, to be used under the direction of K. Kolasa in Food Science and Human Nutrition to fund computer analysis of data from field research on positive nutrition deviants conducted by Mrs. Britten in eastern Nicaragua.

Grant of $627 from the National Institutes of Health to be used under the direction of D. R. Romsos in Food Science and Human Nutrition to determine the influence of meal pattern and diet composition on the control of energy balance in appropriate animal models.

Grant of $55,234 from Standard Brands, Inc., New York, N.Y., to be used under the direction of W. Chenoweth in Food Science and Human Nutrition to determine the effect of eggs and egg substitute on serum cholesterol in human subjects.

Grant of $5,000 from the Junior League of Lansing, Inc., to be used under the direction of R. Boger and S. Scheurer in the Institute for Family and Child Study and Human Medicine to increase potentials for positive parenting; develop and test a system for providing crucial information about parent-child transactions important in enabling the effective development of the child and preventing child neglect.

Unrestricted grant of $3,500 (250 shares of Egan Machinery Co. stock) from Mr. and Mrs. William H. Willert, North Plainfield, N.J., to be used under the direction of W. D. Weston in the Dean's Office, College of Human Medicine.

Grant of $107,514 from the Division of Medicine, Department of Health, Education and Welfare, to be used under the direction of W. D. Weston in the Dean's Office, College of Human Medicine for residency training in general internal medicine and pediatrics.

Grant of $31,169 from the National Heart, Lung, and Blood Institute, Bethesda, Md., to be used under the direction of C. Sweeley in Biochemistry for research in the role of Glycosphingolipids in Platelet Aggregation.

Grant of $1,275.20 from the Ingham Medical Center, Lansing, to be used under the direction of S. McMahon in Medicine for expenses for the dog laboratory.

Grant of $5,000 from the Bass Transportation Co., Inc., Flemington, N.J., to be used under the direction of A. D. Hunt in Medical Humanities for the enrichment of the medical humanities program.

Grant of $3,000 from the Department of Health, Education and Welfare to be used under the direction of K. Lovell in Pathology for the continuation of research fellowship award.

Grant of $38,772 from the National Heart, Lung and Blood Institute to be used under the direction of G. L. Gebber in Pharmacology for research on central neural control of cardiovascular function.

Grant of $119,384 from the National Heart, Lung and Blood Institute to be used under the direction of T. Akera in Pharmacology for research on Cardiac Glycosides: Mechanism of Inotropic Action.

Grant of $70,420 from the National Institute on Drug Abuse to be used under the direction of J. L. Stickney in Pharmacology for research on l-Acetylmethadol: Cardiac Effects and Disposition.

Grant of $70,420 from the National Institute of Mental Health to be used under the direction of K. E. Moore in Pharmacology for research on Catecholamines as Central Nervous Transmitters.
131. Grant of $45,684 from the National Heart, Lung and Blood Institute to be used under the direction of C. Chou in Physiology for research in the Mechanisms of Hemodynamic Changes During Digestion.

132. Grant of $16,195 from the Harry Frank Guggenheim Foundation, New York, N.Y., to be used under the direction of R. Simons in Psychiatry to clarify the interaction of ethologically and socioculturally significant factors in the production of a highly patterned sequence of human social behaviors, the startle-imitative syndrome.

133. Grant of $4,200 from the County of Kent, Grand Rapids, to be used under the direction of N. B. Emzer in Psychiatry for the Psychiatry Residency Training Program.

134. Grant of $11,900 from the Pine Rest Christian Hospital Association, Grand Rapids, to be used under the direction of N. B. Emzer in Psychiatry for the Psychiatry Residency Training Program.

135. Grant of $154,354 from the American College of Emergency Physicians, Lansing, to be used under the direction of J. L. Maatsch in Medical Education Research and Development to develop and field test a criterion-referenced certification examination for emergency medicine.

136. Grant of $4,000 from the Department of the Air Force, Washington, D.C., to be used under the direction of R. F. Stein in Astronomy and Astrophysics to calculate the driving of solar atmospheric oscillations in quiet regions and sunspots, and calculate the heating of the solar chromosphere and corona by acoustic-gravity and magneto-acoustic gravity waves, including effects of radiative energy transfer.

137. Grant of $3,000 from the National Institutes of Health to be used under the direction of J. E. Wilson and C. M. Manthorpe, Jr., in Biochemistry for supplies for a NIH fellowship.

138. Grant of $87,500 from the National Science Foundation to be used under the direction of R. Bandurski in Botany and Plant Pathology for research on the metabolism of microorganisms and higher plants: (1) indolylic compounds of plants; (2) biological reduction of selenate; and (3) gas chromatographic assay of amino acids.

139. Grant of $87,500 from the National Science Foundation to be used under the direction of G. J. Karabatos in Chemistry for costs involved with the moving of a Cobalt 60 irradiator donated to Chemistry by the Dow Corning Corp.

140. Grant of $5,000 from the Monsanto Co., St. Louis, Mo., to be used under the direction of T. Pinnavaia in Chemistry for unrestricted research activities in catalysis.

141. Grant of $22,200 from the National Science Foundation to be used under the direction of E. LeCoff in Chemistry for research in the Synthesis of Stable Free Radicals as Potential Organic Metals.

142. Grant of $27,100 from the National Science Foundation to be used under the direction of B. A. Averill in Chemistry for synthetic Models for the Prosthetic Groups.

143. Grant of $27,100 from the National Science Foundation to be used under the direction of S. E. Crouch in Chemistry for Fast Kinetic Studies of Analytical Systems.

144. Grant of $27,100 from the National Science Foundation to be used under the direction of T. J. Pinnavaia and M. M. Mortland in Chemistry for Mineral-Bound Catalysts.

145. Grant of $74,000 from the National Science Foundation to be used under the direction of J. L. Dye in Chemistry for Solid-State and Solution Properties of Alkali Metal Anions and Trapped or Solvated Electrons.

146. Grant of $109,050 from the National Science Foundation to be used under the direction of G. Bertsch, J. Borysowicz, H. McManus and D. Risca in Physics for Nuclear Scattering and Structure.

147. Grant of $454,300 from the National Science Foundation to be used under the direction of M. A. Abolins and G. A. Smith in Physics for High Energy Interactions.

148. Grant of $575 from the National Institutes of Health to be used under the direction of J. H. Asher, Jr. in Zoology to study genetic and molecular aspects of mesodermal induction.

149. Grant of $3,547 from the Michigan Nurses Assoc., East Lansing, to be used under the direction of I. Payne in Nursing as an addendum to: Sub-Grant of Consortium Grant to Michigan Nurses Assoc.—"Conduct and Utilization of Clinical Nursing Research."
153. Grant of $9,850 from the Michigan Osteopathic College Foundation, Pontiac, to be used under the direction of P. Gerhardt in the Dean's Office, College of Osteopathic Medicine, for research projects.

154. Grant of $101,625 from the American Cancer Society, Inc., New York, N.Y., to be used under the direction of J. L. Wang in Biochemistry for Molecular Characterization of Tissue-Specific Growth Regulators.

155. Grant of $39,392 from the National Institute of Child Health and Human Development to be used under the direction of P. J. Fraker in Biochemistry for Dietary Zinc: Its effect on the immune response.

156. Grant of $53,612 from the Air Force Office of Scientific Research, Bolling AFB, D.C., to be used under the direction of H. M. Reynolds in Biomechanics to provide the basis for a more accurate geometric simulation of the dynamic human body.

157. Grant of $36,061 from the National Institute of Child Health and Human Development to be used under the direction of B. Jordan in Community Health Science for a cross-cultural investigation of child birth practices.

158. Grant of $120,000 from the American Cancer Society, Inc., New York, N.Y., to be used under the direction of H. C. Miller in Microbiology and Public Health for Immuno-regulation of Tumor Membrane Complexes.

159. Grant of $62,176 from the National Science Foundation to be used under the direction of A. Finifter and B. Finifter in Political Science and Sociology to study the behavior of American emigrants living in Australia.

160. Grant of $50 from Isadore Flores III, Lansing, to be used under the direction of G. D. Johnson in Psychology for educational research on methods of producing rapid gains in academic skills, and food stamp recipient research.

161. Grant of $3,210 from the Illinois Institute of Technology, Chicago, Ill., to be used under the direction of L. A. Mease in Psychology to study goals, motives, and norms of reward distribution.

162. Grant of $9,558 from the Michigan Department of Public Health, Lansing, to be used under the direction of C. D. Johnson for a study of substance use among senior citizens in Michigan. Department of Psychology.

163. Unrestricted grant of $200 from H. E. Lee, Okemos, to be used under the direction of J. W. Artis in Sociology.

164. Grant of $2,000 from E. J. Lee, Highland Park, to be used under the direction of G. T. Felkenes in Criminal Justice to be added to the J. J. Brennan Memorial Library Fund for the purchase of publications.

165. Grant of $19,584 from the Michigan Department of Social Services, Lansing, to be used under the direction of P. M. Cox in Social Work for graduate training in Social Work.

166. Unrestricted grant of $50 from the Group for the Study of Nationalism, Lansing to be used under the direction of H. Silverman in American Thought and Language.

167. Grant of $54,285 from the School District of the City of Pontiac to be used under the direction of W. Brookover in the Center for Urban Affairs to facilitate changes in the school learning environment designed to improve the achievement of students in the Pontiac Public School system.

168. Grant of $5,000 from The Merck Company Foundation, Rahway, N.J., to be used under the direction of J. B. Welser in the Dean's Office, College of Veterinary Medicine, for the Visiting Professor Program.

169. Grant of $4,950 from Diamond Laboratories, Inc., Des Moines, Iowa, to be used under the direction of G. R. Carter in Microbiology and Public Health to develop a live streptomycin dependent Pasteurella vaccine for the prevention of bovine pneumatic pasteurellosis.

170. Grant of $65,504 from the National Institute of Arthritis, Metabolism and Digestive Diseases to be used under the direction of J. B. Hook in Pharmacology for the study of Factors Affecting Renal Physiology in the Newborn.

171. Grant of $50,264 from the National Eye Institute to be used under the direction of P. O. Fromm in Physiology for the Comparative Physiological Studies of Vertebrate Eyes.

172. Grant of $86,403 from the National Institute of Arthritis, Metabolism and Digestive Diseases to be used under the direction of J. Meites in Physiology for the study of the Control of Secretion of Hypothalamic Hormones.

173. Grant of $121,04 from the Kalamazoo Dachshund Club to be used under the direction of W. F. Keller in Small Animal Surgery and Medicine for canine disease research and study.
174. Grant of $50 from Frank and Virginia Pinner, East Lansing, for unrestricted use under the direction of W. F. Keller and G. L. Blanchard in Small Animal Surgery and Medicine.

175. Grant of $25 from Joan C. Schoemberger, Chicago Heights, Ill., for unrestricted use under the direction of U. V. Mostosky in Small Animal Surgery and Medicine.

176. Grant of $75 from the Altrusa Club of Greater Lansing to be used under the direction of A. Hunter in Continuing Education to offer students from many lands a unique experience in friendship and in learning.

177. Grant of $25 from Francis N. Fine, Lansing, to be used under the direction of A. Hunter in Continuing Education to offer students from many lands a unique experience in friendship and in learning.

178. Grant of $100 from the Women's Department, Michigan Farm Bureau, Lansing, to be used under the direction of A. Hunter in Continuing Education to offer students from many lands a unique experience in friendship and in learning.

179. Grant of $100 from Mr. and Mrs. Thomas Osgood, East Lansing, to be used under the direction of A. Hunter in Continuing Education to offer students from many lands a unique experience in friendship and in learning.

180. Grant of $150 from William and Christine Finkenstaedt, Grosse Pointe Farms, to be used under the direction of R. Ault in the Continuing Education Service to support the Pottery operation.

181. Grant of $1,000 from Mrs. Alice Hartwick, Grosse Pointe Farms, to be used under the direction of R. Ault in Continuing Education to support the Pottery operation.

182. Grant of $19,980 from the U.S. Air Force to be used under the direction of S. Cherney in International Extension to provide tuition assistance for teachers in DOD Dependents Schools who enroll in the MSU Graduate Education Overseas Program.

183. Grant of $1,200 from the United States Army PACAF Procurement Center Japan, to be used under the direction of S. Cherney in International Extension for tuition assistance for military attending the Graduate Education Overseas Program in Zama, Japan.

184. Grant of $11,677 from the U.S. Office of Education to be used under the direction of D. Wiley in the African Studies Center to support a foreign curriculum consultant.

185. Grant of $324,999 from the Corporation for Public Broadcasting to be used under the direction of R. D. Page in Instructional and Public TV; Community Service Grant for FY 78.

186. Grants totaling $12,700 from various donors to be used under the direction of R. D. Page in Instructional and Public Television to support the activities of public television.

187. Grant of $6,666 from the Corporation for Public Broadcasting to be used under the direction of S. K. Neuche in Radio Broadcasting to augment the fund raising and public awareness activities of WEAR Radio.

188. Grant of $25,245 from the Corporation for Public Broadcasting to be used under the direction of R. D. Estell in Radio Broadcasting to augment the public services provided by WEAR-AM and to increase the quality and scope of public services available to the mid-Michigan community.

189. Grant of $104,758 from the Corporation for Public Broadcasting to be used under the direction of R. D. Estell in Radio Broadcasting to augment the public services provided by WEAR-FM and to increase the quality and scope of public services available to the mid-Michigan community.

190. Grant of $200 from the Mareda Engstrom Estate, Traverse City, to be used under the direction of R. Baker in The Museum for field research in mammalogy.

191. Grant of $7,500 from the Amoco Foundation, Inc., Chicago, Ill., to be used under the direction of J. B. Kinsinger in the Office of the Provost; $6,000 for the outstanding teacher award program and $1,500 for the President's Discretionary Fund.

192. Grant of $100 from Elizabeth Ernst, Manitou Beach, to be used under the direction of F. W. Freeman in Campus Park and Planning to purchase library books for the Gardens Center Building at Hidden Lake Gardens.

193. Grant of $1,000 from the MSU Foundation to be used under the direction of R. E. Wilkinson, Vice President for Business and Finance and Treasurer to establish the "Chemistry Library Fund," a fund functioning as an endowment. Income will be used for the acquisition of books for the Chemistry Department library only after the corpus reaches $10,000. This grant will be combined with $1,000 already granted to the Department of Chemistry for this same purpose which is now in their discretionary account. Both of these grants represent gifts from Dr. and Mrs. Harold Hart who desire that the "Fund" not bear their name at the present time.
B. GIFTS AND GRANTS, cont.

194. Grant of $30,000 from the Trustees of Forest H. Akers to be used under the direction of R. E. Wilkinson, Vice President for Business and Finance and Treasurer, towards the completion of the remaining nine holes on the Forest Akers Golf Course.

195. Grant of $1,000,000 from the Charles Stewart Mott Foundation to be used under the direction of L. W. Scott, Vice President for University Development, towards construction of a State Center for the Performing Arts.

On motion by Trustee Bruff, seconded by Trustee Stevens, it was unanimously voted to accept the gifts and grants.

C. OTHER ITEMS FOR ACTION

1. Investment Transactions

Sale of Stock

a. The 500 shares of Egan Machinery Company stock which are being submitted for acceptance at the February 3 Board meeting have been sold for a net amount of $7,000. This stock was a gift from Mr. and Mrs. William H. Willert, with the proceeds to be divided between the College of Engineering and the College of Human Medicine.

b. The following gifts of stock which were submitted for acceptance at the December Board meeting from the Estate of Cora Gladys Johnson, have been sold:

3,594 shares of Washington Mutual Investors Fund were sold for a net amount of $16,653.48.

3,658 shares of American Mutual Funds, Inc. were sold for a net amount of $34,568.10.

400 shares of General Motors Corporation were sold for a net amount of $27,614.17.

RESOLVED that the above reports of the sale of stock be accepted.

Unanimously approved. Motion by Trustee Bruff, supported by Trustee Radcliffe.

2. Affiliation Agreement

The College of Human Medicine is requesting approval of an affiliation agreement between the University and the Veterans Administration Hospital in Iron Mountain, Michigan for the development of teaching programs in health care.

Two documents comprise the proposed affiliation agreement: A "Memorandum of Understanding" and a three-page addendum. This format is a variance with our typical affiliation agreements. However, we have been advised, in regard to the one-page document entitled "Memorandum of Understanding" that VA representatives ask that it "should not be changed in any significant way, as it is a standard form used by the VA system." Another departure from practice is the request from the VA that the Memorandum of Understanding be signed by the University before counter signature by the VA.

The documents in question have been examined by the Office of the Dean, College of Human Medicine, by the Office of the Provost, and by the University Attorney. Attorney Carr acknowledges the variations in format but has no concerns as to substance and feels that submission to the Board for action is appropriate.

Therefore, the proposed affiliation agreement comes to the Board of Trustees with the Administration's recommendation that it be approved.

RESOLVED that the Affiliation Agreement between Michigan State University, College of Human Medicine, and the Veterans Administration Hospital in Iron Mountain, Michigan, be approved.

Unanimously approved. Motion by Trustee Carrigan, supported by Trustee Stack.

3. Appointment of Architects

a. It is recommended that Hoyem-Basso Associates, Inc., of Bloomfield Hills, be employed as architects for the Plant and Soil Sciences Building.

RESOLVED that Hoyem-Basso Associates, Inc., be appointed as architects for the Plant and Soil Sciences Building.

Unanimously approved. Motion by Trustee Stevens, seconded by Trustee Carrigan.

b. It is recommended that Wakely-Kushner Associates of Warren be employed as architects for the Football Training Facility.

RESOLVED that Wakely-Kushner Associates be employed as architects for the Football Training Facility.

Unanimously approved. Motion by Trustee Carrigan, supported by Trustee Radcliffe.
4. Advanced Management Program Fee Increase

The College of Business has recommended that the Advanced Management Program (AMP) fee structure be increased from $2,500.00 per year to $2,700.00 per year, effective September, 1978. Fees for comparable programs at other universities are noted below.

- University of Chicago: $4,500 annually
  Includes books and class costs
- Columbia University: $3,000 per semester
  Includes all books and study materials plus 1 meal per week
- Northwestern University: $5,000 annually
  Includes books and class costs
- Ohio State University: $3,900 annually
  Includes tuition, fees, books and lunches
- University of Wisconsin-Milwaukee: $4,300 annually
  Includes tuition, fees, books and occasional meals

The proposed fee of $2,700.00 covers books, two dinners per week per student, rental of classroom facilities in the Troy Management Education Center, and tuition for courses at the graduate level.

Approval of the increase at this early date will allow ample time for notification to participants so that their budgets can be adjusted to meet the increase. The increase reflects increased costs.

RESOLVED that the fees for the Advanced Management Program be increased from $2,500.00 per year to $2,700.00 per year, effective September, 1978.

Unanimously approved. Motion by Trustee Stack, seconded by Trustee Bruff.

5. Lettuce and Grape Purchase Policy

Trustee Bruff moved the adoption of the following resolution:

WHEREAS, in recent years students of Michigan State University and other members of the University Community have expressed their sympathetic concern for the farm workers in the Southwestern United States who have sought to organize to alleviate the inhumane working conditions and exploitation in the lettuce and grape industry; and

WHEREAS, this concern was vocally expressed on March 20, 1975, in a lengthy public hearing conducted by the MSU Board of Trustees, with many speakers urging that the University restrict its lettuce and grape purchases to produce grown in Michigan or that bearing the label of the United Farm Workers Union; and

WHEREAS, when students in the residence halls subsequently had an opportunity to vote on whether they preferred that such a policy apply to the purchase of lettuce and grapes served in the residence hall cafeterias, about 75 percent of those voting agreed that such a policy should be adopted; and

WHEREAS, on May 22, 1975, the MSU Board of Trustees by a vote of six to two adopted a resolution affirming and supporting the preference expressed by the students, thus limiting lettuce and grape purchases to produce grown in Michigan or bearing the United Farm Workers label; and

WHEREAS, in recent days it has been announced that considerable progress has been made in the organizational efforts and in improving the working conditions of the migrants and other farm workers involved, and that the executive board of the United Farm Workers Union voted to lift its long-standing boycott of California lettuce and grapes not bearing the UFW label;

NOW, THEREFORE BE IT RESOLVED, that in recognition of this successful effort, the Board of Trustees believes that the restrictions in its May 22, 1975 resolution have served their purpose and that they no longer need be imposed; and

BE IT FURTHER RESOLVED, that the Board of Trustees hereby rescinds that portion of its May 22, 1975 resolution that specifically restricts the purchase of any Southwestern USA iceberg head lettuce and grapes to produce bearing the UFW label; provided, however, that the Board of Trustees reaffirms and continues University purchase policy favoring union-grown produce except that preference shall continue to be given to Michigan produce when seasonally available.

Motion supported by Trustee Stevens.

Motion was made by Trustee Smydra, seconded by Trustee Stack, to amend the resolution by substituting a period for the semicolon after the word "label" in the last paragraph and eliminating the balance of the resolution. Motion to amend failed by a vote of 3 to 4. Trustees Radcliffe, Smydra and Stack voted Yes; Trustees Bruff, Carrigan, Krolikowski and Stevens voted No.

Motion to approve the resolution carried by a vote of 4 to 0 with Trustees Radcliffe, Smydra and Stack abstaining.
WHEREAS, members of the Board of Trustees of Michigan State University have followed
with special interest the available information in the case of Sami Esmail, and sympathize
with the many persons in the University community who know Sami as a personal friend or as
a fellow student, and share with them the frustration of not having the complete facts in
a complex legal situation; and

WHEREAS, the MSU Trustees, individually and collectively, strongly endorse the con-
ccepts of human rights, humane treatment of prisoners, and a speedy and open trial with
the defendant's rights fully protected at all times, and we emphatically state for the
record that Sami Esmail, as a United States citizen, is entitled to no less, whether he
is accused in this country or in a foreign nation; and

WHEREAS, while the Trustees must acknowledge that the Board's ability to intercede
in, or influence, the legal processes of another nation is extremely circumscribed, we
nevertheless feel that informed public opinion will help insure Sami's rights during this
difficult period;

THEREFORE, BE IT RESOLVED, that we join those who call for the full development of
the facts in this case and a prompt resolution based upon universally agreed-upon princi-
ples of fundamental law.

D. REPORTS TO THE BOARD

1. President's Report

a. Office of Facilities Planning and Management

At President Harden's request, Executive Vice President Breslin reported on a
change which will combine the office of the University Architect and the office
of Space Utilization into one unit which will be known as the Office of
Facilities Planning and Management. Robert L. Siefert will have the title of
University Architect and Director, and James M. Peters will be Associate Director
for Program Development.

b. Office of Academic Services

Provost Winder reported on the services performed by the Office of Academic
Services under the direction of Herman L. King.

2. Board Committee Reports

a. Committee Appointments

Chairperson Carrigan appointed Trustees Stack and Stevens as an ad hoc committee
to submit nominations to the Board for the annual Distinguished Citizen
Awards.

Chairperson Carrigan also appointed Trustee Stevens as an additional member of
the Investment Committee.

b. Audit Committee

Trustee Stack reported that the Audit Committee is reviewing a proposal regarding
benefits for Trustees Emeriti and upon the receipt of additional information
will make a recommendation to the Board.

The Committee also began an analysis of the audit report from the State Auditor
General.

c. Affirmative Action Committee

Trustee Stevens and Vice President Perrin reported that representatives from the
University's athletic programs met with the committee and discussed the current
status of the University's compliance with Title IX of the Higher Education
Amendment as it may affect women's athletics. Trustee Stevens suggested that
these presentations be repeated for the other Board members.
D. REPORTS TO THE BOARD, cont.  

February 3, 1978

3. Trustees' Expenses

Trustees' expenses paid in November 1977 totaled $865.51, distributed as follows:

<table>
<thead>
<tr>
<th></th>
<th>Bruff</th>
<th>Carrigan</th>
<th>Krolikowski</th>
<th>Martin</th>
<th>Radcliffe</th>
<th>Smydra</th>
<th>Stack</th>
<th>Stevens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-distance</td>
<td>$23.03</td>
<td>$18.17</td>
<td>$5.09</td>
<td>$.66</td>
<td>$11.62</td>
<td>$259.73</td>
<td>$12.51</td>
<td>$.62</td>
</tr>
<tr>
<td>Telephone Charges</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travel</td>
<td></td>
<td>67.20</td>
<td></td>
<td></td>
<td>90.00</td>
<td>90.00</td>
<td></td>
<td>6.08</td>
</tr>
<tr>
<td>Lodging and Subsistence</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>94.78</td>
<td>20.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entertainment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postage</td>
<td>.24</td>
<td>2.08</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.31</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$23.27</td>
<td>$113.45</td>
<td>$5.09</td>
<td>$.66</td>
<td>$119.68</td>
<td>$564.15</td>
<td>$32.51</td>
<td>$6.70</td>
</tr>
</tbody>
</table>

Adjourned.

[Signature]
[Title]

[Signature]
[Title]