

MINUTES OF THE MEETING
of the
MICHIGAN STATE UNIVERSITY
BOARD OF TRUSTEES
May 26-27, 1977

Present: Trustees Carrigan, Bruff, Martin, Stack, and Stevens; all Board officers (Associate Provost Winder for Provost Boger); Faculty Liaison Group; Student Liaison Group.

Absent: Trustees Krolikowski, Radcliffe, Smydra.

1. Motion was made by Trustee Bruff, seconded by Trustee Stevens, to approve the agenda.

Trustees Carrigan, Martin, and Stevens, supported by Trustee Bruff, moved to add an item, "Reconsideration of February 25, 1972 Board Resolution," as item 8 under D. OTHER ITEMS FOR ACTION. Unanimously approved.

The agenda, as amended, was approved by unanimous vote.

2. On motion by Trustee Carrigan, seconded by Trustee Stevens, it was unanimously voted to approve the minutes of the April 21-22 Board meeting.
3. President Wharton introduced members of the Faculty Liaison Group and the Student Liaison Group.
4. President Wharton then introduced Dr. L. W. Von Tersch, Dean of the College of Engineering, for a report on and visit to the College. Copies of the documents distributed by Dr. Von Tersch are on file in the Secretary's Office.
5. Following the tour of the College of Engineering the Board recessed. During the recess there were meetings of the Investment Committee and the Health Programs Committee. Trustees Krolikowski, Radcliffe, and Smydra arrived during the recess.
6. Dr. James Pickering and four outstanding Honors College students (Michelle Matel, Eva Marikova, Mark Merriman, and Joe Knippenberg) joined the Board for an informal chat during dinner.
7. The Board reconvened in Rooms 104 A and B at 8:05 p.m. President Wharton announced that the meeting would be moved to the Lincoln Room to accommodate the large crowd. He also announced that the Investment Committee would meet following the evening session.

Presentation on
and visit to
College of
Engineering

PUBLIC COMMENTS

1. MSU-Iran Film Contract

Several students and faculty members presented their views on why the Board should direct termination of the MSU-Iran film contract. Following the presentation, Trustee Smydra moved, supported by Trustee Martin, that the Board call a special meeting before the end of the academic year for a special hearing and decision on this subject. When informed that it was improper to offer this motion during the Public Comments portion of the meeting, Trustee Smydra withdrew his motion and announced his intention to make it at an appropriate time the next day.

Public
Comments

MSU-Iran Film
Contract

2. Chicano Students for Progressive Action (CHISPA)

Representatives of the Chicano Students for Progressive Action (CHISPA) expressed their concerns for the success of the University's programs in behalf of Chicano and Latino students. They recommended that these services be centralized in a single office for greater effectiveness and that Assistant Vice President Bonner investigate the effectiveness of the University's affirmative action program as it applies to Chicanos. Copies of the documents distributed by the group are on file in the Secretary's Office.

Chicano Stu-
dents for Pro-
gressive Action

3. Women's Studies Group

Professor Joyce Ladenson and Ms. Jude Baker made presentations to the Board of Trustees in behalf of the Women's Studies Group. They recommended that the University establish a women's studies major as the next step in evolution from the present thematic approach to women's studies. A copy of their presentation is on file in the Secretary's Office.

Women's Studies
Group

4. ASMSU Handicapper's Council

Ms. Ellen Smith made a presentation on behalf of the ASMSU Handicapper's Council. Ms. Smith's presentation noted the requirements of Section 504 of the 1973 Vocational Rehabilitation Act and other state and federal legislation in respect to providing non-discriminatory programs for handicappers. Vice President Robert Perrin assured Ms. Smith the University is aware of this legislation and is taking active steps to comply with regulations promulgated to implement it.

ASMSU Handi-
capper's
Council

Public
CommentsPUBLIC COMMENTS, continued

May 26-27, 1977

ASMSU re MSU-
Iran Film
Project and
State News5. ASMSU

Mr. Scott Bales, Student Liaison Representative from ASMSU, distributed two communications to the Board: first, a communication urging discontinuance of the MSU-Iran film project; second, a communication opposing the present structure of the Board of Directors of the State News (copy on file in the Secretary's Office). In discussion of the second item, it was brought out that it was very difficult to be responsive to ASMSU concerns given the separate, independent legal status of the State News. Trustee Stevens requested a report on any indirect University subsidy to the State News.

Recessed at 11:00 p.m. The Trustee Investment, Affirmative Action, and Audit Committees met during the recess.

A. PERSONNEL CHANGES

Resignations

Resignations

1. Duane D. Patrick, Extension Agricultural Agent, Ionia County, effective June 14, 1977.
2. Thomas J. Walton, 4-H Youth Agent, Cass and St. Joseph Counties, effective May 22, 1977.
3. James H. Booth, Assistant Professor, Agricultural Economics, effective August 31, 1977.
4. Robert A. Ronzio, Associate Professor, Biochemistry, effective July 31, 1977.
5. Gerhardt Schneider, Professor, Forestry, and Fisheries and Wildlife, effective July 15, 1977.
6. David A. Ley, Assistant Professor, Hotel, Restaurant and Institutional Management, effective August 31, 1977.
7. David Furse, Assistant Professor, Advertising, effective August 31, 1977.
8. Barbara McKenzie, Instructor, Health, Physical Education and Recreation, and Intercollegiate Athletics, effective August 31, 1977.
9. Tom M. Johnson, Associate Professor and Assistant Dean for Grand Rapids, College of Human Medicine, effective June 30, 1977.
10. William J. Barclay, Assistant Professor, James Madison College, effective August 31, 1977.
11. Benjamin W. Webb, Associate Professor, Family Medicine, July 31, 1977.
12. James C. S. Kim, Associate Professor, Pathology, effective July 18, 1977.
13. Alice E. Jenicke, Librarian, Libraries, effective September 23, 1977.
14. Senga K. Knupp, Instructor and Assistant Director, Intramural Sports and Recreative Services, effective May 23, 1977.

Sabbatical
LeavesLeaves--Sabbatical

1. Stanley C. Hollander, Professor, Marketing and Transportation Administration, with full pay effective September 1, 1977 through December 31, 1977 to study in the United States.
2. John H. Suehr, Professor, Administration and Higher Education, with full pay, effective January 1, 1978 through June 30, 1978 to study in the United States.
3. Ben A. Bohnhorst, Professor, Secondary Education and Curriculum, with full pay, effective October 1, 1977 through March 31, 1978 to study and travel to Turkey.
4. Amritlal, M. Dhanak, Professor, Mechanical Engineering, with full pay, effective September 1, 1977 through December 31, 1977 to study in California and East Lansing.
5. Norma S. Bobbitt, Associate Professor, Family Ecology, and Secondary Education and Curriculum, and Assistant Dean, College of Human Ecology, with full pay, effective July 1, 1977 through September 30, 1977 to research in the United States.
6. Cyril A. Akpom, Associate Professor, Health Service Education and Research, and Urban and Metropolitan Studies, with half pay, effective July 1, 1977 through June 30, 1978 to study in England.
7. Ronald W. Richards, Associate Professor and Program Director, Medical Education Research and Development, with full pay effective June 1, 1977 through August 31, 1977 to study and travel in Europe and the United States.
8. David E. Wright, Assistant Professor, Lyman Briggs College, with half pay, effective September 1, 1977 through December 31, 1977, and May 1, 1978 through June 30, 1978 to study in East Lansing.

A. PERSONNEL CHANGES, continued

May 26-27, 1977

Sabbatical
LeavesLeaves--Sabbatical, cont.

9. M. Ray Denny, Professor, Psychology, with half pay, effective January 1, 1978 through June 30, 1978 to write in East Lansing.
10. Benjamin W. Wolkinson, Associate Professor, Labor and Industrial Relations, with half pay, effective September 1, 1977 through August 31, 1978 to study and research in East Lansing.
11. Jack M. Bain, Professor and Chairman, Racial and Ethnic Studies, and Professor, Communication, with full pay, effective June 16, 1977 through September 15, 1977 to study in East Lansing and travel in Europe.
12. Katherine E. White, Associate Professor, Administration and Higher Education, and Assistant Vice President, Student Affairs and Services, with full pay, effective September 1, 1977 through November 30, 1977 to study in East Lansing and southeastern United States.

Leaves--Health

Health Leaves

1. Lawrence W. Stebbins, County Extension Director, Ottawa County, with full pay, effective March 22, 1977 through May 2, 1977.
2. Perry Gianakos, Professor, American Thought and Language, with full pay, effective April 25, 1977 through June 30, 1977.

Leaves--Other

Other Leaves

1. Thomas J. Jewett, Extension 4-H Youth Agent, At Large, without pay, effective May 13, 1977 through September 30, 1977 for personal reasons.
2. Derek R. Byerlee, Associate Professor, Agricultural Economics, without pay, effective November 1, 1977 through October 31, 1979 to do consulting for International Maize and Wheat Improvement Center, Mexico.
3. Ahkter H. Khan, Visiting Professor, Agricultural Economics, without pay, effective April 23, 1977 through June 26, 1977 to do consulting in Bangladesh.
4. George E. Rossmiller, Associate Professor, Agricultural Economics, without pay, effective April 12, 1977 through May 25, 1977 to do consulting in the Philippines.
5. Merritt W. Sargent, Specialist, Agricultural Economics, without pay, effective January 11, 1977 through February 11, 1977 to be consultant to AID in Niger.
6. Eugene W. Roelofs, Professor, Fisheries and Wildlife, without pay, effective July 1, 1977 through July 31, 1977 for personal reasons.
7. James I. McClintock, Professor, Lyman Briggs College, without pay, effective September 1, 1977 through August 31, 1978 for Senior Fulbright lectureship at University of Warsaw.
8. Ellen Mickiewicz, Professor, Political Science, without pay, effective January 1, 1978 through December 31, 1978 to be Visiting Professor at Wellesley College.
9. M. Ray Denny, Professor, Psychology, without pay, effective September 1, 1977 through December 31, 1977 to teach and research at the University of Wisconsin.

Transfers and Changes in AssignmentTransfers and
Changes in
Assignment

1. Change Phyllis L. Cooper from Extension Associate, Family Living Education, 50% time at a salary of \$8,200 per year, to Extension Agent, 4-H Volunteer Project, 100% time, at a salary of \$16,400 per year on a 12-month basis, effective June 1, 1977 through September 30, 1980.
2. Change Chloe A. Padgitt, Extension Home Economist, Clinton, Gratiot, and Shiawassee Counties from 100% time at a salary of \$14,500 per year, to 60% time at a salary of \$8,700 per year on a 12-month basis, effective February 14, 1977.
3. Change Jay B. Ludwig, Associate Professor, from the Department of English and the College of Education to the Department of English, only, effective July 1, 1977.
4. Add assignment as Acting Chairman, Economics, for Byron W. Brown, Associate Professor, Economics, and change from a 10-month basis at a salary of \$20,500 per year to a 12-month basis at a salary of \$26,825 per year, effective April 1, 1977 through June 30, 1977.
5. Add assignment as Professor, Secondary Education and Curriculum, for David K. Heenan, Professor and Associate Director, Institute for International Studies in Education, effective April 1, 1977.

Phyllis L.
CooperChloe A.
Padgitt

Jay B. Ludwig

Byron W. Brown

David K.
Heenan

A. PERSONNEL CHANGES, continued

May 26-27, 1977

Transfers and Changes in Assignment, cont.Transfers and
Changes in
Assignment

Andrew D. Hunt

Ruth L.
Clausen

Paul T. Werner

Scott N.
SwisherEdward D.
CoppolaAnne M.
Ousterhout

Salary Changes

Appointments

6. Change Andrew D. Hunt from Professor, Human Development; Dean, College of Human Medicine; and Acting Director, Office of Health Services, to Professor, Human Development; and Acting Director, Office of Health Services, effective June 1, 1977.
7. Transfer Ruth L. Clausen, Instructor, from the Office of Health Services Education and Research to the Department of Family Practice, effective July 1, 1977.
8. Add assignment as Acting Director, U.P. Health Education Corporation for Paul T. Werner, Assistant Professor, Family Practice, with an increase in salary to \$33,950 per year on a 12-month basis, effective June 1, 1977 through August 31, 1977.
9. Change Scott N. Swisher from Professor and Chairman, Department of Medicine, to Professor, Department of Medicine, only, effective July 1, 1977.
10. Change Edward D. Coppola from Professor and Chairman, Surgery, to Professor, Department of Surgery, only, effective July 1, 1977.
11. Change sabbatical leave dates for Anne M. Ousterhout, Assistant Professor, American Thought and Language, from April 1, 1978 through June 30, 1978, to April 1, 1979 through June 30, 1979.

Salary Changes

1. Increase in salary for Gerald R. Miller, Professor, Communication, to \$33,090 per year on a 12-month basis, effective June 1, 1977.
2. Increase in salary for George F. Bertsch, Professor, Physics, to \$30,000 per year on a 10-month basis, effective June 1, 1977.
3. Increase in salary for Bertram P. Karon, Professor, Psychology, to \$26,570 per year on a 10-month basis, effective June 1, 1977.

Appointments

1. Georgene M. Bourdeau, County Extension 4-H Youth Agent, St. Clair County, at a salary of \$12,000 per year on a 12-month basis, effective June 1, 1977.
2. Sue Ann M. Thomas, Extension Home Economist, Dickinson and Iron Counties, at a salary of \$9,000, 75% time, on a 12-month basis, effective June 1, 1977.
3. Gary E. Schultz, Assistant Professor, Crop and Soil Science, at a salary of \$19,000 per year on a 12-month basis, effective June 6, 1977.
4. James J. Ireland, Assistant Professor, Dairy Science, at a salary of \$19,500 per year on a 12-month basis, effective June 1, 1977.
5. Louis Hirsh, Specialist and Assistant to Dean for Admissions, James Madison College, at a salary of \$13,125 per year on a 12-month basis, effective September 1, 1977 through August 31, 1979.
6. Charlotte J. LeGates, Assistant Professor and Assistant Dean, Justin Morrill College, at a salary of \$19,025 per year on a 12-month basis, effective September 1, 1977.
7. James Miller, Assistant Professor, Entomology, at a salary of \$21,000 per year on a 12-month basis, effective July 1, 1977.
8. Joel Zinn, Associate Professor, Statistics and Probability, at a salary of \$18,000 per year on a 10-month basis, effective September 1, 1977.
9. Herbert E. Ross, Associate Professor, Osteopathic Medicine, at a salary of \$50,000 per year on a 12-month basis, effective May 1, 1977.
10. Richard M. Smith, Assistant Professor, Geography, at a salary of \$17,500 per year on a 12-month basis, effective July 1, 1977.
11. Arthur Melzer, Instructor, Political Science, at a salary of \$13,000 per year on a 10-month basis, effective September 1, 1977.
12. John R. Mullin, Assistant Professor, Urban Planning and Landscape Architecture, at a salary of \$15,600 per year on a 10-month basis, effective September 1, 1977.
13. Rex L. LaMore, Specialist and Coordinator of Community Development Program, at a salary of \$12,200 per year on a 12-month basis, effective May 1, 1977 through August 31, 1978.

A. PERSONNEL CHANGES, continued

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Appointments, cont.

Appointments

14. William B. Adrian, Consultant, Overseas-Brazil MEC Project, at a salary of \$37,100 per year on a 12-month basis, effective June 1, 1977 through June 30, 1978.
15. Manuel S. Borges, Jr., Consultant, Overseas-Brazil MEC Project, at a salary of \$28,660 per year on a 12-month basis, effective June 1, 1977 through June 30, 1978.
16. Donald L. Monson, Assistant Basketball Coach, Intercollegiate Athletics, at a salary of \$20,500 per year on a 10-month basis, effective April 1, 1977 through June 30, 1978.

On motion by Trustee Bruff, seconded by Trustee Martin, it was unanimously voted to approve the Resignations, Leaves, Transfers and Changes in Assignment, Salary Changes, and Appointments.

Personnel RecommendationsPersonnel
Recommendations

It is recommended that the following positions be established:

1. Senior Programmer A-P 9 for the Dean's Office, College of Human Medicine, 11
2. Clerk II C-T 5 for Continuing Education, 11

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

B. GIFTS AND GRANTSGifts and
Grants

1. Gift of 3,500 packages of Keebler's Animal Crackers valued at \$175 from the Keebler Company, Elmhurst, Illinois, to be used by Student Senators of the College of Agriculture and Natural Resources for a fund raising project - Small Animals Day '77.
2. Gift of an Agri-Medic Water Medicator System valued at \$800 from Bremco Industries, Inc., Lafayette, Indiana, to be used under the direction of Maynard Hogberg in Animal Husbandry at the Swine Research Farm to give medication to pigs through the water system.
3. Gift of a FMC pickling cucumber harvester valued at \$15,000 from H. J. Heinz, Holland, to be used for research under the direction of L. Baker in Horticulture.
4. Gift of 2 Model 3300 and 2 Model 4400 Modems with a total value of \$2,045 from International Communications Corporation, Miami, Florida, to further education in the field of data communication in the Computer Laboratory.
5. Grants to be used for scholarship purposes as follows:
 - a. \$100 from the W. Atlee Burpee Company, Warminster, Pennsylvania, for the Burpee Annual Horticultural Award
 - b. \$2,250 from the Alcoa Foundation, Pittsburgh, Pennsylvania, to support three \$750 scholarships in the fields of mechanical or electrical engineering
 - c. \$1,000 from the American Hotel Foundation, Inc., New York, New York, for students in the School of Hotel, Restaurant and Institutional Management in need of financial assistance
 - d. \$350 from the William Randolph Hearst Foundation, New York, New York, for scholarships in the School of Journalism
 - e. \$160.26 from the American Association of University Women, Easton, Pennsylvania, to provide scholarships to financially deserving females majoring in physical education
 - f. \$10.62 from D. C. Heath and Company, Lexington, Massachusetts, to be deposited in the Manpower Studies Scholarship
 - g. \$5,535.53 from the Draper Family Foundation, Saginaw, to establish a scholarship fund to be known as the "Joanne Sandow Draper and Jeanne Profit Draper Scholarship Fund" to be used for students from Saginaw County.
6. Grants as follows to the MSU Development Fund:
 - a. \$400 from the L. J. Minor Corporation, Cleveland, Ohio, for the Outstanding Senior Award Hotel School for Associates Endowment Fund
 - b. \$203 from various donors for the Runnel's Pathology Prize in the College of Veterinary Medicine
 - c. \$4,288 from various donors for various athletic accounts
 - d. \$16,353.30 from various donors (list on file in the Development Fund Office) for various projects received between November 1, 1976 and January 31, 1977
 - e. \$6,647.55 from various donors (list on file in the Development Fund Office) for various projects received between February 1, 1977 and March 31, 1977
7. Grant of \$100 from Michigan Vegetable Council to be used under the direction of N. A. Brown in the Extension 4-H Youth Programs for sponsorship of National Junior Horticulture Association trip.

Gifts and
Grants

B. GIFTS AND GRANTS, continued

May 26-27, 1977

8. Grant of \$88,816 from Federal Extension Service to be used under the direction of J. A. Halm in the Cooperative Extension Service to develop volunteer system in 4-H, Family Living and Expanded Nutrition Program, with emphasis on the involvement and management of low-income volunteers in the 4-H youth phase of ENP.
9. Grant of \$9,000 from Agency for International Development to be used under the direction of B. A. Stout in Agricultural Engineering to prepare an original bibliographic reference document on the use of energy in agriculture.
10. Grant of \$6,570.87 from Cannery Machinery Ltd. to be used under the direction of C. M. Hansen in the Department of Agricultural Engineering to improve mechanical strawberry harvester/capper.
11. Grant of \$3,000 from Fisons Limited Pharmaceutical Division, Loughborough, England and Burns-Biotec Laboratories, Oakland, California to be used under the direction of E. R. Miller in the Department of Animal Husbandry to obtain information on the iron requirement of the growing pig from birth to 8 weeks of age using parenteral iron dextran and measuring growth rate, hemoglobin and body iron status.
12. Grant of \$19,400 from Josiah Macy, Jr. Foundation of New York to be used under the direction of J. A. Boezi in the Department of Biochemistry in support of a sabbatical leave for Dr. Boezi to carry out research in the laboratory of Dr. I. R. Lehman at Stanford University.
13. Grant of \$10,550 from American Farm Bureau Research Foundation, Park Ridge, Illinois to be used under the direction of M. L. Lacy in the Department of Botany and Plant Pathology to investigate improved methods of rust and root rot control, and the effects of stresses on asparagus productivity.
14. Grant of \$1,500 from CIBA-GEIGY Corporation, Greensboro, North Carolina to be used under the direction of H. S. Potter in the Department of Botany and Plant Pathology to evaluate experimental systematic fungicides for control of potato and cole crop diseases.
15. Grant of \$1,000 from Kalo Laboratories, Inc., Kansas City, Missouri to be used under the direction of H. S. Potter in the Department of Botany and Plant Pathology to evaluate new bactericide for control of potato and dry bean diseases.
16. Grant of \$1,500 from Eli Lilly & Company, Indianapolis, Indiana to be used under the direction of A. L. Jones in the Department of Botany and Plant Pathology in the evaluation of experimental fungicide EL-222 for the control of tree-fruit diseases.
17. Grant of \$500 from Mallinckrodt, Inc., St. Louis, Missouri to be used under the direction of J. M. Vargas, Jr. in the Department of Botany and Plant Pathology to help defray expenses incurred in the ongoing turfgrass research program.
18. Grant of \$900 from Michigan Pear Research Association to be used under the direction of E. Klos in the Department of Botany and Plant Pathology to help defray expenses incurred in the ongoing research program of fireblight control.
19. Grant of \$500 from Olin Chemicals Group, Stamford, Connecticut to be used under the direction of F. Laemmle in the Department of Botany and Plant Pathology to help defray expenses incurred in the testing of bean diseases.
20. Grant of \$500 from Potato Association of America, Orono, Maine to be used under the direction of W. J. Hooker in the Department of Botany and Plant Pathology to help defray expenses incurred in the publication of a Compendium of Potato Diseases by the American Phytopathological Society.
21. Grant of \$3,000 from U. S. Department of Agriculture, Washington, D.C. to be used under the direction of D. C. Ramsdell in the Department of Botany and Plant Pathology in research on efficacy and fungicide residues in the use of Captafol application.
22. Grant of \$2,000 from Agrico Chemical Company, Tulsa, Oklahoma to be used under the direction of D. R. Christenson in the Department of Crop and Soil Science to measure the effectiveness of various Mn sources and fertilizer materials on yield and Mn uptake by navy beans and sugarbeets.
23. Grant of \$1,000 from CIBA-GEIGY Corporation, Greensboro, North Carolina to be used under the direction of W. F. Meggitt in the Department of Crop and Soil Science to evaluate the effects of soil applied herbicides in field crops.
24. Grant of \$625 from Blount Agriculture, Saginaw, Michigan to be used under the direction of E. H. Everson in the Department of Crop and Soil Science in the continuation of existing wheat research programs.

B. GIFTS AND GRANTS, continued

May 26-27, 1977

Gifts and
Grants

25. Grant of \$1,850 from DCA Food Industries Inc., Hillsdale, Michigan, to be used under the direction of E. H. Everson in the Department of Crop and Soil Sciences for continuing wheat research.
26. Grant of \$4,500 from General Mills, Inc., Minneapolis, Minnesota, to be used under the direction of E. H. Everson in the Department of Crop and Soil Sciences for the continuation of existing wheat research programs.
27. Grant of \$4,000 from Kellogg's, Battle Creek, Michigan, to be used under the direction of E. H. Everson in the Department of Crop and Soil Sciences for the continuation of existing wheat research programs.
28. Grant of \$250 from Loren O. Gettel, Pigeon, Michigan, to be used under the direction of E. H. Everson in the Department of Crop and Soil Sciences for wheat research.
29. Grant of \$5,900 from Michigan Bean Commission, Lansing, Michigan, to be used under the direction of A.J.M. Smucker in the Department of Crop and Soil Sciences for continuing support of bean research.
30. Grant of \$5,900 from Michigan Bean Commission, Lansing, Michigan, to be used under the direction of A.J.M. Smucker in the Department of Crop and Soil Sciences for continuing support of bean research.
31. Grant of \$3,675 from Michigan Foundation Seed, East Lansing, Michigan, to be used under the direction of T. Johnston in the Department of Crop and Soil Sciences for soybean testing.
32. Grant of \$5,000 from Michigan Hybrid Seed Corn Producers, Ovid, Michigan, to be used under the direction of E. C. Rossman in the Department of Crop and Soil Sciences for continuing corn research.
33. Grant of \$5,000 from Michigan Hybrid Seed Corn Producers, Ovid, Michigan, to be used under the direction of E. C. Rossman in the Department of Crop and Soil Sciences for continuing corn research.
34. Grant of \$1,500 from Michigan Turfgrass Foundation, East Lansing, Michigan, to be used under the direction of J. Kaufmann in the Department of Crop and Soil Sciences for travel to the International Turfgrass Conference in Munich, Germany.
35. Grant of \$73,500 from National Science Foundation, Washington, D.C., to be used under the direction of P. Carlson in the Department of Crop and Soil Sciences for cellular approach to agricultural genetics.
36. Grant of \$5,500 from Quaker Oats Company, Chicago, Illinois, to be used under the direction of J. E. Grafius and D. H. Smith in the Department of Crop and Soil Sciences for an assistantship in oats breeding program.
37. Grant of \$18,644 from Dow Chemical Company, Midland, Michigan, to be used under the direction of J. T. Huber in the Department of Dairy Science for the response of lactating dairy cows to varying levels of DOWCO-415.
38. Grant of \$1,000 from Velmar Green, Elsie, Michigan, to be used under the direction of H. D. Hafs in the Department of Dairy Science to support scholarship funding for students in Dairy Science through the Michigan Dairy Memorial Scholarship.
39. Grant of \$130,656 from Environmental Protection Agency to be used under the direction of E. Goodman in the Department of Entomology for ecosystem responses to alternative pesticides in the environment a systems approach.
40. Grant of \$900 from Michigan Pear Research Association to be used under the direction of A. Howitt in the Department of Entomology for tree fruit insects: psylla control.
41. Grant of \$12,186 from American Natural Gas Service Company, Detroit, Michigan, to be used under the direction of H. E. Johnson in the Department of Fisheries and Wildlife to conduct sampling of larval fish from water intake structures of a compressor cooling unit and determine taxonomic identity of fish taken in samples.
42. Grant of \$1,000 from General Mills Foundation, Minneapolis, Minnesota, to be used under the direction of G. A. Leveille in the Department of Food Science and Human Nutrition as unrestricted support for the Department.
43. Grant of \$1,000 from American Farm Bureau Research Foundation, Park Ridge, Illinois, to be used under the direction of B. Dean in the Department of Horticulture for asparagus research.
44. Grant of \$1,000 from American Farm Bureau Research Foundation, Park Ridge, Illinois, to be used under the direction of R. C. Herner in the Department of Horticulture for crown production and fiber research.
45. Grant of \$1,500 from American Farm Bureau Research Foundation, Park Ridge, Illinois, to be used under the direction of H. Price in the Department of Horticulture; \$1,000 for cultivar spacing trial and \$500 for soil aeration asparagus establishment.

B. GIFTS AND GRANTS, continued

May 26-27, 1977

46. Grant of \$2,500 from American Farm Bureau Research Foundation, Park Ridge, Illinois, to be used under the direction of A. R. Putnam in the Department of Horticulture; \$1,000 for weed competition studies and \$1,500 for development of chemicals for perennial weed control.
47. Grant of \$1,000 from Asgrow Seed Company, Kalamazoo, Michigan, to be used under the direction of L. Baker in the Department of Horticulture to support ongoing hybrid carrot program.
48. Grant of \$400 from BASF Wyandotte Corporation, Parsippany, New Jersey, to be used under the direction of A. R. Putnam in the Department of Horticulture to support on-going research on weed control performance and crop safety with BASF herbicides.
49. Grant of \$200 from Illinois Landscape Contractors Association, Bloomingdale, Illinois, to be used under the direction of R. Mecklenburg in the Department of Horticulture to strengthen educational programs.
50. Grant of \$500 from Eli Lilly and Company, Indianapolis, Indiana, to be used under the direction of A. R. Putnam in the Department of Horticulture to support on-going research with SONALAN for use on horticultural crops.
51. Grant of \$1,000 from Michigan Apple Committee, Lansing, Michigan, to be used under the direction of D. H. Dewey in the Department of Horticulture to support program in progress to improve internal quality of apples for fresh market and processing.
52. Grant of \$1,500 from Monsanto Company, St. Louis, Missouri, to be used under the direction of A. R. Putnam in the Department of Horticulture to support on-going research with herbicides for use on horticultural crops.
53. Grant of \$250 from Professional Grounds Management Society, Pikesville, Maryland, to be used under the direction of R. Mecklenburg in the Department of Horticulture to support root regeneration research.
54. Grant of \$8,000 from Ford Motor Co., Ford Tractor Operations, Troy, Michigan, to be used under the direction of C. J. Mackson in the School of Packaging to be used as a contribution toward European Commission for Mechanization of Agriculture study tour to be held in the U.S. during September, 1977.
55. Grant of \$500 from Pierce Corporation, Eugene, Oregon, to be used under the direction of C. J. Mackson in the School of Packaging to be used as a contribution toward European Commission for Mechanization of Agriculture study tour to be held in the U.S. during September, 1977.
56. Grant of \$462.50 from various companies to be used under the direction of C. J. Mackson in the School of Packaging for unrestricted use in packaging education.
57. Grant of \$200 from the Nelson-Whitten Study, Annandale, Virginia, to be used under the direction of K. Boyer in the Department of Economics for computer work on the J. R. Nelson Contract.
58. Grant of \$38,131 from Michigan Department of Labor, Lansing, Michigan, to be used under the direction of J. K. White in the Department of Management for extension and expansion of existing research contract for the "Development of an Individual Labor Force Decision Behavior Model."
59. Grant of \$2,500 from Cleveland Consulting Associates, Cleveland, Ohio, to be used under the direction of D. A. Taylor in the Department of Marketing and Transportation Administration to award graduate assistantship funding at the MBA level.
60. Grant of \$250 from Community College of Philadelphia, Philadelphia, Pennsylvania, to be used under the direction of R. L. Blomstrom in the School of Hotel, Restaurant, and Institutional Management for the furtherance of educational goals of the School of HRI as related to the hospitality industry.
61. Grant of \$1,000 from American Bank and Trust Company, Lansing, Michigan, to be used under the direction of R. Laing in the Department of Advertising for support of learning objectives of Graduate Public Relations course, ADV 850.
62. Grant of \$1,000 from Awrey Bakeries, Inc., Livonia, Michigan, to be used under the direction of D. E. Schultz in the Department of Advertising to support student development and presentation of Advertising Campaign Strategy as part of ADV 486 course requirements.
63. Grant of \$1,000 from Michigan Bell, Detroit, Michigan, to be used under the direction of D. Furse in the Department of Advertising to support student development and presentation of Advertising Campaign Strategy as part of ADV 486 course requirements.
64. Grant of \$1,000 from Shedd-Bartush Foods, Detroit, Michigan, to be used under the direction of D. E. Schultz in the Department of Advertising to support student development and presentation of Advertising Campaign Strategy as part of ADV 486 course requirements.

B. GIFTS AND GRANTS, continued

May 26-27, 1977

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65. Grant of \$11,000 from University of Southern California, Los Angeles, California, to be used under the direction of K. L. Gustafson in the College of Education for work cooperatively with the University of Southern California and Syracuse University in developing an internal training program for National Iranian Radio and Television.
66. Grant of \$3,030.81 from Michigan Department of Education, Lansing, Michigan, to be used under the direction of F. R. Ignatovich and S. Hecker in the Department of Administration and Higher Education to produce 1976-77 enrollment projections for State public, private, total, and 58 intermediate school districts.
67. Grant of \$600 from various schools to be used under the direction of F. Ignatovich and S. Hecker in the Department of Administration and Higher Education to produce enrollment projections for specified school districts.
68. Grant of \$2,000 from American Educational Research Association, Washington, D.C., to be used under the direction of L. S. Shulman in the Department of Counseling, Personnel Services, and Educational Psychology as an advance on expenses which will be incurred in the process of editing the Review of Research in Education, including salary to be paid to an assistant.
69. Grant of \$18,423 from The Board of Regents of the University of Wisconsin System, Madison, Wisconsin, to be used under the direction of J. A. Wessel in the Department of Health, Physical Education, and Recreation to establish the I CAN Primary Skill Materials Adaptation Systems Model for use with severely mentally impaired children, ages 5 - 7 years.
70. Grant of \$50 from Amalgamated Meat Cutters & Butcher Workmen of North American AFL-CIO, Chicago, Illinois, to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to aid in the financial support of the Engineering Equal Opportunity Program.
71. Grant of \$3,000 from Amoco Foundation, Inc., Chicago, Illinois, to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to be used in support of the Engineering Equal Opportunity Program for minority students.
72. Grant of \$100 from E. I. DuPont DeNemours and Company, Wilmington, Delaware, to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to aid in the financial support of the Engineering Equal Opportunity Program.
73. Grant of \$100 from Environmental Research Institute of Michigan, Ann Arbor, Michigan, to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to aid in the financial support of the Engineering Equal Opportunity Program.
74. Grant of \$300 from General Motors Corporation, Detroit, Michigan, to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to be used to support recruitment and retention of minority students in engineering.
75. Grant of \$100 from International Business Machines, Corp., Chicago, Illinois, to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to aid in the financial support of the Engineering Equal Opportunity Program.
76. Grant of \$100 from Oldsmobile Division, GMC, Lansing, Michigan, to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to aid in the financial support of the Engineering Equal Opportunity Program.
77. Grant of \$100 from Owens-Corning Fiberglas Corp., Toledo, Ohio, to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to aid in the financial support of the Engineering Equal Opportunity Program.
78. Grant of \$100 from Owens-Illinois, Toledo, Ohio, to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to aid in the financial support of the Engineering Equal Opportunity Program.
79. Grant of \$100 from Saginaw Valley Divisions, GMC, Saginaw, Michigan, to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to aid in the financial support of the Engineering Equal Opportunity Program.
80. Grant of \$100 from The Upjohn Company, Kalamazoo, Michigan, to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to aid in the financial support of the Engineering Equal Opportunity Program.
81. Grant of \$300 from various companies to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to aid in the financial support of the Engineering Equal Opportunity Program.
82. Grant of \$600 from various donors to be used under the direction of W. J. Gamble, Jr., in the Dean's Office, College of Engineering, to aid in the financial support of the Engineering Equal Opportunity Program.

83. Grant of \$7,150 from Michigan Heart Association, Southfield, Michigan, to be used under the direction of M. Siegel in the Division of Engineering Research for 1) to develop and implement a random signal visualization/Doppler system and compare measurements with electromagnetic flowmeters, 2) to quantify the volume blood flow from Doppler frequency measurements using new methods, and 3) to perform experiments on dogs to study blood flow in the common carotid, femoral, renal, and abdominal aortic arteries.
84. Grant of \$55,400 from National Science Foundation, Washington, D.C., to be used under the direction of N. J. Altiero, Jr., in the Division of Engineering Research for damage propagation in rock at high strain rates and elevated temperatures.
85. Grant of \$32,642 from U. S. Army Research Office, Research Triangle Park, North Carolina, to be used under the direction of K. M. Chen and D. P. Nyquist in the Division of Engineering Research for a theoretical method based on the numerical solution of a tensor integral equation will be developed to quantify the internal EM fields induced in finite, heterogenous biological bodies by incident, nonuniform EM fields.
86. Grant of \$1,000 from Dow Chemical Company, Midland, Michigan, to be used under the direction of R. W. Little in the Department of Mechanical Engineering for general department support.
87. Grant of \$9,943 from U. S. Energy Research & Development Administration, Washington, D.C., to be used under the direction of J. Zuiches and R. P. Boger in the Institute for Family and Child Study for assessment of infra-red and alternative approaches toward increasing energy conservation in the home.
88. Grant of \$4,603.48 from American Medical Association/Education and Research Foundation, Chicago, Illinois, to be used under the direction of W. D. Weston in the Dean's Office, College of Human Medicine, as an unrestricted grant.
89. Grant of \$113,592 from National Institutes of Health to be used under the direction of W. D. Weston in the Dean's Office, College of Human Medicine, for biomedical research support grant.
90. Grant of \$3,000 from Society of Teachers of Family Medicine, Kansas City, Missouri, to be used under the direction of R. J. Gerard in the Department of Family Practice to address the problems associated with the development and utilization of volunteer faculty resources in community based family practice programs.
91. Grant of \$13,640 from Kidney Foundation of Michigan, to be used under the direction of M. D. Bailie in the Department of Human Development to evaluate kidney function in rats with the genetic propensity to hydronephrosis and to elucidate the mechanisms responsible for the structural development.
92. Grant of \$3,671 from National Heart, Lung and Blood Institute to be used under the direction of M. D. Bailie in the Department of Human Development for metabolism and intrarenal action of Angiotensin II.
93. Grant of \$7,820 from Michigan Heart Association, Southfield, Michigan, to be used under the direction of E. W. Campbell, Jr., in the Department of Medicine for prospective study of cardiac surgery coagulopathies.
94. Grant of \$14,000 from Michigan Heart Association, Southfield, Michigan, to be used under the direction of D. R. Rovner in the Department of Medicine for alternative forms of renin in human hypertension.
95. Grant of \$5,000 from USV Pharmaceutical Corporation, Tuckahoe, New York, to be used under the direction of P. Ways in the Department of Medicine as protocol for a study of chlorthalidone plus reserpine and methyldopa MSD in a stepped care approach to the treatment of essential hypertension.
96. Grant of \$12,000 from Michigan Heart Association, Southfield, Michigan, to be used under the direction of J. M. Chubb in the Department of Pharmacology as a research fellowship.
97. Grant of \$63,868 from National Institute of Child Health and Human Development to be used under the direction of M. D. Bailie in the Department of Pharmacology for anatomical and functional development of the kidney.
98. Grant of \$10,835 from Michigan Heart Association to be used under the direction of T. Adams in the Department of Physiology to be used for "A Thermodynamic Method for Blood Flow Measurement."
99. Grant of \$59,570 from National Institutes of Health to be used under the direction of S. R. Heisey in the Department of Physiology to be used for "Effects of Blood Flow and Anesthesia on CSF Dynamics."
100. Grant of \$93,364 from National Institutes of Health to be used under the direction of J. B. Scott in the Department of Physiology for a training grant entitled "Cardio-vascular Physiology and Pathophysiology."

B. GIFTS AND GRANTS, continued

May 26-27, 1977

Gifts and
Grants

101. Grant of \$38,355.87 from Ingham County Community Mental Health Board, Lansing, Michigan, to be used under the direction of N. B. Enzer in the Department of Psychiatry for psychiatry residency training program.
102. Grant of \$7,897 from Kent County Community Mental Health Services, Grand Rapids, Michigan, to be used under the direction of N. B. Enzer in the Department of Psychiatry for psychiatric residency training program.
103. Grant of \$4,095 from Ottawa County Community Mental Health Services Board, Holland, Michigan, to be used under the direction of N. B. Enzer in the Department of Psychiatry for psychiatry residency training program.
104. Grant of \$3,802 from Pine Rest Christian Hospital Association, Grand Rapids, Michigan, to be used under the direction of N. B. Enzer in the Department of Psychiatry for psychiatry residency training program.
105. Grant of \$23,335 from National Science Foundation to be used under the direction of J. R. Brandou in the Dean's Office, College of Natural Science, to operate a center for six AAAS Chautauqua-type short courses for college science faculty within a 300-mile radius.
106. Grant of \$11,442 from Department of the Air Force, Washington, D.C., to be used under the direction of R. F. Stein in the Department of 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 coronas by acoustic-gravity and magneto-acoustic gravity waves, including effects of radiative energy transfer.
107. Grant of \$57,541 from National Institutes of Health, Bethesda, Maryland, to be used under the direction of C. H. Suelter in the Department of Biochemistry for comparative enzymology of normal and abnormal tissue.
108. Grant of \$12,500 from International Nickel Company, Inc., New York, New York, to be used under the direction of B. Rosenberg in the Department of Biophysics for research on the anti-cancer activities of the platinum metal group complexes. Unrestricted.
109. Grant of \$40,000 from National Science Foundation, Washington, D.C., to be used under the direction of E. Cantino in the Department of Botany and Plant Pathology for function of the single microbody in the zoospore of Blastocladiella.
110. Grant of \$4,900 from Dow Chemical Company, Midland, Michigan, to be used under the direction of G. J. Karabatsos in the Department of Chemistry as an unrestricted grant.
111. Grant of \$40,000 from Office of Naval Research to be used under the direction of G. Leroi in the Department of Chemistry for photoionization studies of molecular dynamics and energetics.
112. Grant of \$17,500 from National Science Foundation to be used under the direction of R. S. Harmon in the Department of Geology for isotopic paleoclimate investigation of cave deposits.
113. Grant of \$5,000 from Fermi National Accelerator Laboratory, Batavia, Illinois, to be used under the direction of G. A. Smith in the Department of Physics to develop, design, and construct one optical cell of a Cerenkov Counter to be used in experiments to be performed at the Fermi National Accelerator Laboratory.
114. Grant of \$1,000 from Ford Motor Company Fund, Dearborn, Michigan, to be used under the direction of F. J. Blatt in the Department of Physics to support International Conference on Thermoelectricity in Metallic Conductors to be held August 10-12, 1977.
115. Grant of \$3,000 from National Science Foundation, Washington, D.C., to be used under the direction of P. A. Schroeder in the Department of Physics to organize and run international conference.
116. Grant of \$48,900 from National Science Foundation, Washington, D.C., to be used under the direction of P. J. Colwell in the Department of Physics for Raman Scattering studies of Ion-implanted Silicon Carbide and P-Type Silicon Carbide.
117. Grant of \$14,760 from National Science Foundation, Washington, D.C., to be used under the direction of P. Signell in the Department of Physics for problem-oriented physics instruction.
118. Grant of \$10,800 from Michigan Heart Association to be used under the direction of C. Wang in the Department of Physiology for "Effect of Interstitial Pressure on Coronary Blood Flow."
119. Grant of \$14,000 from Max Kade Foundation, Inc., New York, New York, to be used under the direction of H. J. Kende in the MSU/ERDA Plant Research Laboratory for research designed to elucidate the mechanism by which ethylene is synthesized and to localize the site of ethylene synthesis.
120. Grant of \$500 from Consumers Power Company, Jackson, Michigan, to be used under the direction of J. J. Gallagher in the Science and Mathematics Teaching Center for a conference to recognize the contributions of Michigan State University personnel, school supervisors, teachers, administrators, and others who have worked with the Center staff over the years in a wide range of efforts; to review the accomplishments of the Center.

Gifts and
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B. GIFTS AND GRANTS, continued

May 26-27, 1977

121. Grant of \$100 from Medical News and International Report, New York, New York, to be used under the direction of R. Fedore in the Dean's Office, College of Osteopathic Medicine for memorial scholarships.
122. Grant of \$1,680 from State of Michigan - Corrections Department, Lansing, Michigan, to be used under the direction of M. S. Magen in the Dean's Office, College of Osteopathic Medicine as an unrestricted grant.
123. Grant of \$250 from MSU-COM Wives Club, East Lansing, Michigan, to be used under the direction of M. S. Magen in the Dean's Office, College of Osteopathic Medicine to assist in the purchase of a Recording Resuscing Annie.
124. Grant of \$26,951 from National Institutes of Health, Bethesda, Maryland, to be used under the direction of P. Gerhardt in the Dean's Office, College of Osteopathic Medicine for support of biomedical research.
125. Grant of \$942 from American Osteopathic Association, Chicago, Illinois, to be used under the direction of I. M. Korr in the Department of Biomechanics for travel expenses to AOA research conference.
126. Grant of \$27,378 from National Advisory Dental Research Council, Bethesda, Maryland, to be used under the direction of J. J. Kabara in the Department of Biomechanics to investigate the role of antimicrobial lipids as potential anticariogenic agents. Elucidate similar in vitro structure-function relationships between lipids and cariogenic microorganisms.
127. Grant of \$3,500 from Center for Disease Control, Atlanta, Georgia, to be used under the direction of P. Gerhardt in the Department of Microbiology and Public Health for preparation of Bacillus stereothermophilus spores.
128. Grant of \$13,205 from Michigan Heart Association to be used under the direction of T. M. Brody in the Department of Pharmacology for mechanism of intropy of sulfhydryl inhibitors.
129. Grant of \$21,691 from National Institutes of Health to be used under the direction of D. E. Rickert in the Department of Pharmacology for xenobiotic conjugation by the intestine.
130. Grant of \$12,500 from Michigan Heart Association to be used under the direction of L. C. Weaver in the Department of Physiology for "Cardiopulmonary Afferent Control of Renal Function."
131. Grant of \$6,000 from National Science Foundation to be used under the direction of H. M. Raulet in the Department of Anthropology for an analysis of the "Domestic Economy" of a swidden rice-cultivating community in West Kalimantan, Indonesia.
132. Grant of \$75 from County of Ingham, Mason, Michigan, to be used under the direction of J. H. Wakeley in the Department of Psychology to be used at the discretion of the chairperson to support adolescent psychotherapy.
133. Grant of \$18,100 from National Science Foundation, Washington, D.C., to be used under the direction of J. L. Zacks in the Department of Psychology for behavioral and neurological effects of trace aluminum on animal and human subjects.
134. Grant of \$5,816 from U. S. Department of Justice, Law Enforcement Assistance Administration, Washington, D.C., to be used under the direction of J. H. McNamara in the School of Criminal Justice for dissertation research to be done by Jack R. Greene.
135. Grant of \$6,065 from U. S. Department of Justice, Law Enforcement Assistance Administration, Washington, D.C., to be used under the direction of J. H. McNamara in the School of Criminal Justice for dissertation research to be done by John O. Smykla.
136. Grant of \$9,877 from U. S. Department of Justice, Law Enforcement Assistance Administration, Washington, D.C., to be used under the direction of J. H. McNamara in the School of Criminal Justice for dissertation research to be done by Dennis Lund.
137. Grant of \$5,740 from U. S. Department of Justice, Law Enforcement Assistance Administration, Washington, D.C., to be used under the direction of J. H. McNamara in the School of Criminal Justice for dissertation research to be done by William L. Selke.
138. Grant of \$2,000 from Michigan Statewide Health Manpower Survey, East Lansing, Michigan, to be used under the direction of D. H. Kruger in the School of Labor and Industrial Relations to process, analyze, research data from the Michigan Statewide Health Manpower Survey.
139. Grant of \$300 from Herbert Bergman, East Lansing, Michigan, to be used under the direction of B. F. Engel in the Department of American Thought and Language for studies in American culture.

B. GIFTS AND GRANTS, continued

May 26-27, 1977

Gifts and
Grants

140. Grant of \$100 from Dr. Robert K. Gay, Morris, Illinois, to be used under the direction of J. R. Welser in the Dean's Office, College of Veterinary Medicine, to support programs in the College.
141. Grant of \$30 from Michiana Veterinary Medical Auxiliary, Elkhart, Indiana, to be used under the direction of J. R. Welser in the Dean's Office, College of Veterinary Medicine, to support student delegate to the AVMA national convention.
142. Grant of \$125 from Michiana Veterinary Medical Auxiliary, Elkhart, Indiana, to be used under the direction of J. R. Welser in the Dean's Office, College of Veterinary Medicine, for the scholarship fund for students in the College.
143. Grant of \$50,798 from National Institutes of Health, Bethesda, Maryland, to be used under the direction of J. R. Welser in the Dean's Office, College of Veterinary Medicine, as a biomedical research support grant.
144. Grant of \$92,004 from National Cancer Institute to be used under the direction of J. Meites in the Department of Physiology for "Neuroendocrine Control of Mammary and Pituitary Tumors."
145. Grant of \$1,000 from Bristol Laboratories, Syracuse, New York, to be used under the direction of T. Riebold and S. Reed in the Department of Large Animal Surgery and Medicine for the study of Xylazine - Ketaset in the horse.
146. Grant of \$11,000 from Michigan Heart Association to be used under the direction of G. Eyster in the Department of Small Animal Surgery and Medicine to determine the hemodynamics of blood flow and pulmonary function in the research model when the right ventricle is excluded from circulatory by a valved atrio-pulmonary conduit.
147. Grant of \$3,975 from National Science Foundation, Washington, D.C., to be used under the direction of H. J. Oyer in the Graduate School as a fellowship for Peter L. Thomas.
148. Grant of \$63,000 from National Science Foundation, Washington, D.C., to be used under the direction of H. J. Oyer in the Graduate School to provide for National Needs Graduate Traineeships.
149. Grant of \$19,000 from Michigan Council for the Humanities, East Lansing, Michigan, to be used under the direction of D. G. Rohman in Lifelong Education to produce, in cooperation with the Cooperative Extension Service, a modern version of the traditional traveling Chautauqua show as a means of presenting to audiences in four Michigan cities the humanistic perspective on American traditions of the land.
150. Grant of \$500 from Farm Foundation, Oak Brook, Illinois, to be used under the direction of C. Wells in the Continuing Education Service to help with expenses of conference "Great Lakes Church Leadership School for 1977."
151. Grant of \$500 from National Association for Industry-Education Cooperation, Buffalo, New York, to be used under the direction of R. Niemeyer in the Continuing Education Service to help underwrite the conference "Maximizing Community Resources for Teaching," April 18-19, 1977, in the Kellogg Center.
152. Grant of \$10,900 from Michigan Office of Highway Safety Planning, Lansing, Michigan, to be used under the direction of D. L. Smith in the Highway Traffic Safety Center to train 20 instructors in techniques to develop and conduct motorcycle safety education programs; to provide appropriate training aids for novice rider instruction by driver education and motorcycle safety education teachers.
153. Grant of \$327,000 from Michigan Department of Corrections, Lansing, Michigan, to be used under the direction of A. D. Hunt in the Office of Health Services to provide medical services and to further the education of the College of Osteopathic Medicine and the College of Human Medicine.
154. Grant of \$1,775 from Michigan National Bank, Lansing, Michigan, to be used under the direction of R. Page in Instructional and Public Television to underwrite Michigan State University hockey telecasts.
155. Grant of \$3,925 from various donors to be used under the direction of R. Page in Instructional and Public Television to support program activities of WKAR-TV.
156. Grant of \$60 from various donors to be used under the direction of R. Estell in Radio Broadcasting to be used for the purchase of subchannel receivers and to provide program services for the blind and physically handicapped.
157. Grant of \$3,500 from Northwest Area Foundation, St. Paul, Minnesota, to be used under the direction of P. L. Dressel in the Office of Institutional Research for the evaluation of liberal arts college projects supported by the Foundation.
158. Grant of \$100 from Northwestern National Life Insurance Co., Lansing, Michigan, to be used under the direction of C. R. Wharton, Jr., in the President's Office as an unrestricted grant.

Gifts and Grants

B. GIFTS AND GRANTS, continued

May 26-27, 1977

- 159. Grant of \$5,355.19 from the Estate of Harry Barnett to be used under the direction of R. E. Wilkinson in the Office of the Vice President for Business and Finance to establish an endowment fund known as the Harry C. & Doris S. Barnett Scholarship Fund.
- 160. Grant of \$103,375 from National Institutes of Health to be used under the direction of J. E. Cantlon in the Office of the Vice President for Research and Graduate Studies for biomedical research support.
- 161. Grant of \$17,550 (consisting of 600 shares of Michigan National Corporation stock), from Mrs. Howard Stoddard, East Lansing, Michigan, to be used under the direction of L. W. Scott in the Office of the Vice President for University Development for the \$17 million Enrichment Program for the Performing Arts Center.

Motion was made by Trustee Carrigan, seconded by Trustee Radcliffe, to accept the Gifts and Grants. Unanimously approved.

Bids and Contract Awards

C. BIDS AND CONTRACT AWARDS

- 1. Bids were received on May 5, 1977 for Akers and Case Halls - Trash Compactor Installation. This project involves the removal of five existing gas-fired solid waste incinerators and the installation of five new trash compactors. The existing incinerators receive a large variety of waste, frequently causing incomplete combustion and excessive emission of particulate material. This problem will be eliminated by the installation of the new compactors.

Contract awarded for Trash Compactor installation, Akers and Case Halls

<u>General Contractor</u>	<u>Base Bid</u>
Hausman Construction Co.	\$34,400
Hanel-Vance Construction Co.	37,994
McNeilly Construction Inc.	39,230
Charles Featherly Construction Co.	42,000
Nielsen Construction Co.	49,995

It is recommended that a contract be awarded to the Hausman Construction Co. of Lansing in the amount of \$34,400 and that the following project budget be established:

Hausman Construction Co.	\$34,400
Contingencies	2,600
Engineering, Supervision and Expediting	<u>4,000</u>
Total Expected Expenditures	\$41,000

This project will be funded from Account 21-3190, Akers Hall-Special Maintenance, and Account 21-2847, Case Hall-Major Repairs.

RESOLVED that the above contract be awarded and budget be established as recommended.

Approved by a vote of 5 to 0 on motion by Trustee Radcliffe, seconded by Trustee Carrigan. Trustees Bruff, Martin, and Stack were out of the room at the time the vote was taken.

Contract awarded for restoration and deck coating, Parking Ramps 1 and 2

- 2. Bids were received on May 11, 1977 for Parking Ramps No. 1 and 2 - Restoration and Deck Coating. The Base Bid provides cleaning, repairing, and applying a coating to approximately 30,000 square feet of Parking Ramp No. 1, along with repairing all spalled concrete and replacing six expansion joints. It also provides for the structural bonding of floor cracks in Ramp No. 2, along with repair of concrete floor slabs and exterior tuckpointing. Alternate No. 1 provides additional deck coating and expansion joint repair on Ramp No. 1.

<u>Contractor</u>	<u>Base Bid</u>	<u>Alternate No. 1 (Add)</u>
William H. Kelly Co.	\$174,455	\$11,268
Ben T. Young Co.	178,500	13,800
Grunwell-Cashero of Lansing, Inc.	182,515	11,396

It is recommended that a contract be awarded to the William H. Kelly Co. of East Lansing in the amount of \$174,455 for the Base Bid only, and that the following project budget be established:

William H. Kelly Co.	\$174,455
Replace Parking Gates - Physical Plant Shops	5,000
Re-striping - Grounds Department	245
Contingencies	11,300
Engineering, Supervision, and Expediting	<u>9,000</u>
Total Expected Expenditures	\$200,000

This project will be funded from Account 21-3053, Parking Ramps 1 and 2 - Repairs 76-77.

RESOLVED that the above contract be awarded and budget be established as recommended.

Approved by a vote of 5 to 0 on motion by Trustee Stevens, seconded by Trustee Carrigan. Trustees Bruff, Martin, and Stack were out of the room at the time the vote was taken.

C. BIDS AND CONTRACT AWARDS, continued

May 26-27, 1977

Bids and
Contract Awards

3. Bids were received on May 13, 1977 for Parking Lot Improvements in Lots F, X, Y, T, and the Manly Miles Building. The project involves pavement repair work, bituminous sealcoating, and pavement markings in these lots. In addition to the bid work, other work programmed for Parking Lots C, P, S, and E will be accomplished under our unit cost contracts for asphalt and concrete work, and involves the elimination of specified exits at these lots.

Contract awarded
for improvements
in Parking Lots
F, X, Y, T and
Manly Miles

Spartan Asphalt Paving Co.	\$ 84,532
Reith-Riley Construction Co., Inc.	98,000
Beckman Co.	117,500

It is recommended that a contract be awarded to the Spartan Asphalt Paving Co. in the amount of \$84,532, and that the following project budget be established:

A. Parking Lot Improvements at Lots F, X, Y, T, and Manly Miles Building

1. Bid Work - Spartan Asphalt Paving Co.	\$ 84,532	
2. Required second lining of parking lots in spring of 1978	3,368	
3. Contingency	<u>8,100</u>	\$ 96,000

B. Unit Cost Work

1. Eliminate exits at Lots C, P, S, E	\$ 20,500	
2. Contingency	<u>3,500</u>	<u>24,000</u>

TOTAL		\$120,000
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Funds are available in Account 21-3054, Parking Lot Maintenance, for this work.

RESOLVED that the above contract be awarded and budget be established as recommended.

Approved by a vote of 5 to 0 on motion by Trustee Carrigan, seconded by Trustee Radcliffe. Trustees Bruff, Martin, and Stack were out of the room at the time the vote was taken.

4. The following bids were received on May 19 for installation of the C-T Scanner in the Clinical Center:

Contract awarded
for installation
of C-T Scanner

<u>Contractor</u>	<u>Base Bid</u>
Hanel-Vance Construction Co.	\$ 40,600
Charles Featherly Construction Co.	43,500
B. J. Siwek Construction Co.	45,470
Neilson Construction Co.	45,500

It is recommended that a contract be awarded the low bidder, Hanel-Vance Construction Co. of Okemos, Michigan, in the amount of \$40,600, and that the following project budget be established:

Construction	\$40,600
Contingencies	4,400
Inspection by Physical Plant	1,000
Architect's Fees	<u>19,000</u>
	<u>\$65,000</u>

RESOLVED that the above contract be awarded and the project budget be established as recommended.

Approved by a vote of 5 to 0 on motion by Trustee Carrigan, seconded by Trustee Radcliffe. Trustees Bruff, Martin, and Stack were out of the room at the time the vote was taken.

At their November 12, 1976 meeting, the Trustees approved the recommendation of the Board Committee on Health Programs for the purchase and installation of the American Science and Engineering Scanner. The Trustees also approved the proposal which included the funding of this installation through an internal loan to be repaid from revenues generated from the performance of services. This loan is for a five-year period at an 8% rate of interest.

Internal loan
for funding of
C-T Scanner
approved

The following is the projected funding of this installation:

<u>Budget</u>	
Main Scanner	\$687,500
Other Equipment	21,000
Facility Renovation	<u>65,000</u>
Total	<u>\$773,500</u>
<u>Source of Funds</u>	
H. E. W. Grant	\$100,000
Net Loan	<u>673,500*</u>
Total	<u>\$773,500</u>

*Plus accrued interest

Bids and
Contract Awards

C. BIDS AND CONTRACT AWARDS, cont.

May 26-27, 1977

C-T Scanner,
cont.

4. C-T Scanner, cont.

It is anticipated that repayment on the above loan will begin in October of 1977. It is recommended that the internal loan be executed not to exceed \$700,000, which will cover the cost of installation plus accrued interest to the date of repayment.

RESOLVED that the internal loan be established as recommended.

Approved by a vote of 6 to 0 on motion by Trustee Carrigan, seconded by Trustee Radcliffe. Trustees Martin and Stack were out of the room at the time the vote was taken.

Other Items
for Action

D. OTHER ITEMS FOR ACTION

Report of changes
in bond port-
folio accepted

1. Following established Board procedures, Scudder, Stevens & Clark made changes in the bond portfolio of the University as summarized in the schedules distributed to the Trustees (copy on file in the Secretary's Office).

RESOLVED that the above investment report be accepted.

Approved by a vote of 6 to 0 on motion by Trustee Krolikowski, seconded by Trustee Radcliffe. Trustees Martin and Stack were out of the room at the time the vote was taken.

Report of sale
of stock
accepted

2. The 500 shares of McGraw Edison Co. stock accepted at the March 25, 1977 Board meeting were sold for a net amount of \$16,105.70. This stock was a gift from Mr. Gordon H. Cork, Class of 1933, to be used to purchase equipment to aid in the teaching of electrical engineering.

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

Approved by a vote of 6 to 0 on motion by Trustee Bruff, seconded by Trustee Stevens. Trustees Martin and Stack were out of the room at the time the vote was taken.

1977 Spring
Term Board of
Trustees Awards

3. The students graduating at the 1977 spring term commencement who had the highest scholastic averages at the close of their last term in attendance and are therefore recommended to receive the Board of Trustees' awards are:

First high woman - Nancy Lynn Westrate, Spanish (Education) major, 4.00 average, graduate of Cassopolis High School, Cassopolis, Michigan

First high men - Donald Eugene Florence, English major, 4.00 average, graduate of Brandywine High School, Niles, Michigan

- Jay Pearlstein, Accounting major, 4.00 average, graduate of Taylor Allderdice High School, Pittsburgh, Pennsylvania

Second high woman - Mary Cargill Norton, James Madison - International Relations Policy Problems major, 3.993 average, graduate of North Central High School, Indianapolis, Indiana

Second high man - Richard A. Eckhart, Accounting major, 3.986 average, graduate of Lakeview Senior High School, Battle Creek, Michigan.

RESOLVED that the Board of Trustees' awards be approved.

Approved by a vote of 6 to 0 on motion by Trustee Bruff, seconded by Trustee Carrigan. Trustees Martin and Stack were out of the room at the time the vote was taken.

Degrees granted
spring term 1977

4. It is recommended that the appropriate degrees be awarded to those students who, according to the records of the Registrar, completed the requirements for graduation spring term 1977.

RESOLVED that the degrees be awarded as recommended.

Approved by a vote of 5 to 0 on motion by Trustee Smydra, seconded by Trustee Stevens. Trustees Carrigan, Martin, and Stack were out of the room at the time the vote was taken.

Phase B of
Central Control
Monitor approved

5. As part of its energy conservation program, the University has been connecting several buildings to a Central Control of Energy Consuming Systems. The Board of Trustees has previously approved Phase A of this project, which included the installation of the system in Life Sciences, Clinical Science, Case, Wilson, Wonders, and Holden Halls. Hoyem-Basso Associates, Inc. of Bloomfield Hills prepared the original study and provided the design service for Phase A. It is recommended that the University continue to engage this firm as its consulting engineers for Phase B of this project. It is estimated that the cost of design for Phase B will be approximately \$53,500, that the total project cost will be approximately \$1,200,000, and will include the connection of the following buildings as funds become available.

continued - - -

D. OTHER ITEMS FOR ACTION, cont.

May 26-27, 1977

Other Items
for Action5. Central Energy Monitoring - Phase B, cont.Central Energy
Monitoring,
cont.Academic

Natural Resources
Food Science
Biochemistry
Veterinary Clinic
Fee Hall
Packaging
Biology Research Center
Pesticide Research
Plant Biology

Dormitories

Holmes
Akers
Hubbard
McDonel
Owen
Shaw

RESOLVED that the above recommendation be approved.

Approved by a vote of 5 to 0 on motion by Trustee Bruff, seconded by Trustee Stevens. Trustees Carrigan, Martin, and Stack were out of the room at the time the vote was taken.

6. It is recommended that the double room dormitory rate be established at \$490 per term for the 1977-78 school year, effective with the fall term. This is an increase of \$25 per term over the current year.

Dormitory Rates
increased
effective fall
term 1977

RESOLVED that the dormitory rate be increased as recommended.

Motion was made by Trustee Carrigan, seconded by Trustee Radcliffe, to approve the above resolution. Trustee Smydra's motion to table did not receive a second. Motion to approve the resolution carried by a vote of 7 to 1, Trustee Smydra voting No.

7. It is recommended that the University Apartments basic rates be established at \$139 per month for a one-bedroom apartment and \$147 per month for a two-bedroom apartment for the 1977-78 fiscal year, effective July 1, 1977. This is an increase of \$7 and \$9 per month, respectively, over the current rates.

University
Apartments
rates increased
effective
July 1, 1977

RESOLVED that the University Apartments rates be approved as recommended.

Motion was made by Trustee Radcliffe, seconded by Trustee Carrigan, to approve the above resolution. Carried by a vote of 7 to 1, Trustee Smydra voting No.

8. Trustees Carrigan, Martin, and Stevens moved to remove from the table Item 5, Information Items and Reports, of the April 22, 1977 Board meeting. Seconded by Trustee Smydra and unanimously carried.

February 25,
1972 resolution
re black student
athletes
rescinded

Trustee Carrigan, Martin, and Stevens moved approval of the following resolution:

WHEREAS, on February 25, 1972, the Board of Trustees by a vote of 5 to 3 (Stevens, Martin, and Carrigan in the negative) approved a resolution disapproving the action of three individuals at Michigan State University with regard to alleged institutional racism within Big Ten athletics; and

WHEREAS, subsequent efforts within the Big Ten appear to have satisfactorily resolved the problems that led to the original allegations; and

WHEREAS, at this late date, it serves no useful or fair purpose for the 1972 Board action to continue to stand on the record:

THEREFORE BE IT RESOLVED, that the Board of Trustees hereby rescinds its resolution of February 25, 1972 which disapproved the action of said three individuals,

AND BE IT FURTHER RESOLVED, that copies of this resolution be sent to the three individuals involved:

Dr. Robert L. Green, Professor, Counseling, Personnel Services and Educational Psychology, and Dean, College of Urban Development, Michigan State University;

Dr. Thomas S. Gunnings, Professor, Urban and Metropolitan Studies, and Psychiatry, and Assistant Dean, College of Human Medicine, Michigan State University;

Dr. Joseph McMillan, Assistant Vice President for Academic Affairs/Minority Affairs, University of Louisville.

Supported by Trustee Smydra.

Trustee Stack expressed dissatisfaction with the second and third paragraphs of the Resolution and it was unanimously voted to approve the Resolution with those paragraphs revised to read as follows:

WHEREAS, subsequent efforts within the Big Ten demonstrate progress in resolving the problems that led to the original allegations; and

WHEREAS, this Board continues its strong and essential commitment to democratic principles of academic freedom and free speech on the campus:

Information
Items and
ReportsAffirmative
Action CommitteeInvestment
Committee

Audit Committee

Health Programs
CommitteeLong-range
Planning
CouncilNational
Science Founda-
tion AwardsProcedures
for Property
Insurance
RenewalE. INFORMATION ITEMS AND REPORTS

May 26-27, 1977

1. Board Committee Reportsa. Affirmative Action Committee

Trustee Martin reported that Vice President Perrin and Assistant Vice President Bonner have requested that all colleges establish their affirmative action goals for the next three years by July 1, 1977. Assistant Vice President Bonner has been visiting the various colleges and will report to the Committee as soon as all colleges have been contacted. The Committee was informed that a self-evaluation procedure will be instituted in connection with the new handicappers regulations.

b. Investment Committee

Trustee Krolikowski reported that the Committee had met in two sessions May 26. Recommendations are in process and will be presented to the Board at the June meeting.

c. Trustee Audit Committee

Trustee Stack reported that the Committee has reviewed the questions regarding the Administrative Data Processing Department. It has been advised by the University Attorney that the Internal Auditor's final report on that department should be available as a public report but that the working papers should not be. Mr. Bruff added that the Committee accepted the Internal Auditor's report on the Administrative Data Processing Department and received a progress report from the Selection Committee for a permanent director of the department. Ernst & Ernst has advised against a further operational audit of the department but suggested that they work with the new director in setting up procedures and implementing recommended changes.

d. Health Programs Committee

Trustee Stack reported that the Committee discussed the subject of student health services generally and concentrated specifically on women's health services. A new development is the creation of an ad hoc Student Advisory Board which, it is hoped, will become a permanent board which will be very helpful to the Student Health Center. There is a feeling that the administrative structure for dealing with University health affairs is deficient and this concern will be dealt with in future meetings of the Committee.

2. Reports by the Presidenta. Long-range Planning Council

President Wharton reported that the Council has had two plenary sessions and one meeting of sub-groups on an experimental basis to review procedures for the conduct of the long-range planning process.

b. National Science Foundation Awards

President Wharton also announced that the University was in second place behind the University of Wisconsin in the Big Ten in the number of National Science Foundation awards for the past year. Over the past five years the University is still in first place in the Big Ten with 72 awards.

3. Report on Property Insurance Bid Proposal

The University's property insurance policy expires November 9, 1977. This was originally a three-year policy and the University exercised an option to renew it for an additional three years.

Following past directives of the Board of Trustees, the Administration is in the process of developing procedures and establishing specifications to receive competitive bidding for the University insurance program.

The following outlines the procedures and states the schedule for receiving these bids:

May 31

A questionnaire (copy on file in the Secretary's Office) will be mailed to all agents who have previously expressed an interest in negotiating for or bidding on the University's program. Additionally, the large brokerage firms known to have the capability of handling and servicing an account as large and diverse as Michigan State University's will be mailed a copy of the questionnaire. Finally, to assure that no interested party is overlooked, we will ask the Independent Insurance Agents of Michigan and the Michigan Association of Mutual Insurance Agents, which together include all licensed insurance agents in the state of Michigan, to solicit inquiry by any interested party.

June 13

Completed questionnaires will be reviewed by a committee consisting of the Vice President for Business and Finance, the Assistant Vice President for Finance, the Controller, and the Insurance Manager to determine which agents meet the qualifications as prescribed by the questionnaire and to assign qualified agents to the insurance markets for which they have indicated a preference. The University's insurance consultant will advise the committee in this process.

E. INFORMATION ITEMS AND REPORTS, cont.

May 26-27, 1977

Information
Items and
Reports

3. Report on Property Insurance Bid Proposal, cont.

June 13-17

The firm of Warren McVeigh, Griffen, and Huntington, risk management consultants, will develop bid specifications for the University's program. They will also advise the above-stated committee in the assignment of agents to markets.

Property
Insurance
Renewal

July 22

Bid specifications submitted for Board approval.

October 3

Formal bid opening.

October 28

Recommendation to the Board of Trustees on the successful bidder.

4. Trustees' Expenses

Trustees'
Expenses

Trustees' expenses paid in March 1977 totaled \$2,602.08, broken down as follows:

	<u>Bruff</u>	<u>Carrigan</u>	<u>Krolikowski</u>	<u>Martin</u>	<u>Radcliffe</u>	<u>Smydra</u>	<u>Stack</u>	<u>Stevens</u>
Long-distance Telephone Charges	\$ 66.93	\$ 64.22	\$16.32	\$ 7.54	\$.34	\$ 186.32	\$15.76	\$ 19.26
Travel	172.50	105.30		132.00	90.00	197.40		113.25
Lodging and Subsistence	22.15	22.75	20.99				53.07	61.75
University Entertainment	1.44	11.85			9.09	551.73		9.03
Printing	168.90	209.70	-	104.85				
Other						155.64		13.00
Total	\$431.92	\$413.82	\$36.31	\$244.39	\$99.43	\$1,091.09	\$68.83	\$216.29

F. ADDITIONAL ITEMS

Additional
Items

1. Provost Candidates Interviews

Provost
Candidate
Interviews

Trustee Smydra moved that the final three candidates for Provost be subject to interview by the Board of Trustees in an open meeting.

In discussion of the motion, several Trustees and representatives of the Faculty Liaison Group expressed their belief that support of this motion would be improper since an open interview was not contemplated at the time applicants were sought for the position.

Motion failed for lack of a second.

Recessed for lunch at 1:15: p.m.

The meeting reconvened at 2:35 p.m. in the Heritage Room, Kellogg Center.

1. Report on College of Engineering

Report on
College of
Engineering

Dean Von Tersch continued his report on the College of Engineering.

2. 1977-78 Budget

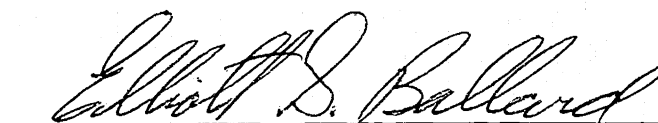
1977-78
Budget

President Wharton reviewed the memorandum which he had distributed earlier (copy on file in the Secretary's Office) summarizing 1977-78 budget considerations. Associate Provost Winder presented a verbal report on salary anomalies in academic departments among certain categories of the faculty. Assistant Vice President Groty gave the Board a report on salary problems among non-Board appointees.

Adjourned at 4:20 p.m.



President



Secretary

NOTE: Minutes of the June 3, 1977 Special Meeting will be found on page 9196.