

The Finance Committee convened at Kellogg Center at 7:00 a.m. for breakfast. Following breakfast, the meeting took place.

The following members were present:

Messrs. Brody, Harlan, Rouse, Smith, Stevens, Vanderploeg; Dr. Bartlett, President Hannah and Secretary McDonel

Absent: Treasurer May

1. Scudder, Stevens and Clark and Earl Cress recommend with approximately \$50,000 of the \$150,000 presently remaining available for such purposes in the Pension and Retirement Fund for purchase of 750 shares Republic Steel at approximately \$68 per share to yield 4.4%

Investment recommendations

On motion of Mr. Brody, seconded by Mr. Rouse, it was voted to approve Item 1.

2. Recommendation from Earl Cress that the Board authorize a borrowing from the National Bank of Detroit of \$3,650,000 at an interest rate of 3-3/4% to be repaid within 5 years. The security pledged to pay this loan will be the net income from 400 apartments of the 800 units in Spartan Village plus a second lien on the 1948 dormitory borrowing of reduced to \$2,500,000 and which will be paid off within 7 years, plus any excess income from the 400 apartment units in Spartan Village which are pledged to cover the apartment loan.

Approval of two resolutions relative to borrowing funds for November and December payrolls

The purpose of this loan is to reduce the construction loan now outstanding to the National Bank of Detroit from \$4,500,000 to \$2,225,000 or a payment on this note of \$2,225,000 plus a reimbursement to Michigan State University for advances made to cover construction costs of this project in the amount of \$1,400,000.

When the government loan is completed covering the 400 units of this project in the amount of \$3,750,000 that money will be used to retire the balance of the construction loan that will then be owing to the National Bank of Detroit in the amount of \$2,250,000, and the balance of \$1,500,000 will be used to repay the University for the balance of the construction costs advanced by the University during the construction period.

On motion of Dr. Smith, seconded by Mr. Stevens, it was voted to approve the following resolution of the Board authorizing borrowing funds from the National Bank of Detroit and executing term loan agreement:

WHEREAS, The State Board of Agriculture, in the exercise of its constitutional duties, has constructed on lands owned by it in East Lansing, Michigan known as "Spartan Village", 72 apartment buildings, in which are located 396 one-bedroom apartment units and 404 two-bedroom apartment units, and has furnished and equipped the same, to provide housing facilities for students attending Michigan State University; and

Approval of resolution authorizing borrowing funds from National Bank of Detroit and Executing Term Loan Agreement

WHEREAS, this Board has advanced from its own and borrowed funds approximately \$7,400,000.00 on a temporary basis, to pay such costs of constructing, furnishing and equipping of such apartment units; and

WHEREAS, the United States of America, through the Housing and Home Finance Agency, has agreed to loan to the Board the sum of \$3,750,000.00, to be used to reimburse this Board, in part, for the sums expended by it for the cost of constructing the apartment buildings; which loan is to be secured by a pledge of the net income derived from the operation and renting of the apartment units located in 36 of the apartment buildings above described, which apartment buildings are numbered as follows: 1612 through 1632, inclusive; 1523 through 1525, inclusive; 1550 and 1551; 1565 through 1574, inclusive, and contain 192 one-bedroom apartment units and 208 two-bedroom apartment units; and

WHEREAS, Ann Arbor Trust Company, of Ann Arbor, Michigan, hereinafter sometimes referred to as "Agent", has submitted for the consideration of this Board a form of Term Loan Agreement, under the terms of which this Board may borrow from National Bank of Detroit, hereinafter sometimes referred to as "Bank", the sum of \$3,650,000.00, which sum is the amount required, when taken together with funds to be borrowed from the United States of America, to reimburse the Board for the sums advanced by it to pay the costs of constructing, furnishing and equipping the 72 apartment buildings above referred to; which sum will be secured by a pledge of net income derived from the operation of and renting of the apartment units located in 36 of the apartment buildings above referred to, which buildings are numbered as follows: 1429 through 1436, inclusive; 1440 through 1452, inclusive; and 1535 through 1549, inclusive, and contain 204 one-bedroom apartment units and 196 two-bedroom apartment units.

NOW, THEREFORE, BE IT RESOLVED BY THE STATE BOARD OF AGRICULTURE that a Term Loan Agreement, substantially in the form presented to this Board, be entered into with National Bank of Detroit and Ann Arbor Trust Company, as Agent, which agreement shall be dated as of November 1, 1958, and pursuant to which the sum of \$3,650,000 may be borrowed from the Bank under the following terms:

1. Amount of Loan \$ 3, 650,000.00
2. Interest Rate: 3-3/4 per annum
3. Term: All principal and accrued interest to be paid on or before November 1, 1963.

Finance Committee Meeting Items, continued:

Resolution authorizing borrowing funds from Nat. Bank of Det.

2. Resolution authorizing borrowing of funds from National Bank of Detroit, etc., continued:

4. Security: To secure the payment of principal and interest under the terms of the Term Loan Agreement, the Agent shall have:

- (a) A first lien upon the Student Apartments Net Income derived from the operation of the apartment units located in the apartment buildings numbered as follows: 1429 through 1436, inclusive; 1440 through 1452, inclusive; and 1535 through 1549, inclusive;
- (b) A second lien on Net Income pledged to secure Michigan State College of Agriculture and Applied Science Dormitory Revenue Bonds, 1948 Series, issued pursuant to a Trust Agreement made and entered into by and between this Board and Ann Arbor Trust Company, as Trustee, dated as of December 15, 1948.
- (c) The covenants and agrees to pay to the Bank such excess funds as shall be earned through the operation of the apartment buildings, the net income from which will be pledged under the terms of a Loan Agreement to be entered into between this Board and the United States of America, which shall not be required for the purposes of paying debt service, creating reserves and other specified purposes designated in said agreement.

BE IT FURTHER RESOLVED that any two of the following officers of Michigan State University, to-wit: John A. Hannah, its President; Karl H. McDonel, its Secretary; and Philip J. May, its Vice President and Treasurer, be and they are hereby authorized, empowered and directed, in the name of The State Board of Agriculture and as its corporate act and deed, to execute and enter into the aforementioned Term Loan Agreement between The State Board of Agriculture, National Bank of Detroit, and Ann Arbor Trust Company, as Agent; and they are further authorized, empowered and directed to execute the promissory note of the Board as evidence of said loan.

BE IT FURTHER RESOLVED that any two of said officers be and they are hereby authorized, empowered and directed, in the name of The State Board of Agriculture and as its corporate act and deed, to perform all acts and deeds and execute all instruments and documents necessary, expedient and proper in connection with the borrowing of said sum of Three Million, Six Hundred Fifty Thousand Dollars, in accordance with the terms and conditions of said Term Loan Agreement, and the pledging of the security above described.

BE IT FURTHER RESOLVED that any two of said officers be and they are hereby authorized, empowered and directed, for and in the name of The State Board of Agriculture and as its corporate act and deed, to make, consent to and agree to any changes in the terms and conditions of said Term Loan Agreement which they may deem necessary, expedient and proper, prior to or at the time of the execution of said Term Loan Agreement, but no such amendments shall change the provisions therein for the amount to be borrowed, the interest to be paid thereon, or the security pledged.

BE IT FURTHER RESOLVED that said officers, either in said Term Loan Agreement or in the note to be executed as evidence of the loan by the Bank, shall not pledge the credit of or create any liability on the part of the State of Michigan, The State Board of Agriculture, or any member or officer of this Board, or of their successors, other than to pledge the security above described.

BE IT FURTHER RESOLVED that any two of said officers be and they are hereby authorized, empowered and directed, for and in the name of The State Board of Agriculture and as its corporate act and deed, to accept the commitment of National Bank of Detroit.

MINUTES OF THE MEETING
of the
STATE BOARD OF AGRICULTURE
November 20, 1958

Present: Dr. Smith, Chairman; Messrs. Brody, Harlan, Rouse, Stevens, Vanderploeg; Dr. Bartlett, President Hannah and Secretary McDonel

Absent: Treasurer May

The meeting was called to order at 10:25 a.m.

The minutes of the previous meeting were approved.

SPECIAL MISCELLANEOUS

1. Approval of the Finance Committee Items above.

On motion of Mr. Brody, seconded by Mr. Rouse, it was voted to approve the Finance Committee Items.

Approval
Finance
Committee
Items

SPECIAL MISCELLANEOUS, continued

2. Ordinarily the legislative appropriation is received in 12 equal monthly installments. The State of Michigan has been unable to meet this commitment in recent months. The allocation which would normally have been received in early September was received in late October. The payment that would normally have been received in early October in the amount of \$2,109,583 has not yet been received. The November allocation in the same amount has not been received, and there is some indication that the December 1 allocation will also be delayed. As of today, the state is back in its payments in the amount of \$4,219,166, and after December 1 the total amount will be \$6,328,749.

Approval of two resolutions re: borrowing money to meet November and December payroll.

If we are to meet our labor payrolls and our salary payrolls, pay our employees for travel, and discount our bills, it will be necessary for us to go to the Michigan banks and borrow substantial sums of money to get us through the month of November and the month of December. After we have used our available resources plus our continuing income, it will be necessary for us to borrow approximately \$900,000 in order to keep our month-end commitments for November and an additional \$2,555,000 in December. If we receive one monthly allocation from the state during December, the December borrowing can be reduced by the amount of the payment, or by \$2,109,000.

It is recommended that the Board approve resolutions which have been drawn by the Board's attorney, Mr. Leland Carr, which will authorize and permit the necessary borrowing in the amount of up to \$900,000 at the end of November and up to an additional \$2,555,000 at the end of December. The Michigan National Bank will loan us the amount required at the end of November at an interest rate of $3\frac{1}{2}\%$ for the period of the loan. The December borrowing will be negotiated as necessary from Michigan banks on the basis of the most favorable terms available.

On motion of Mr. Brody, seconded by Mr. Vanderploeg, it was voted to approve the above recommendation and the following resolutions:

Resolution No. 1:

WHEREAS, the financial condition of the State is such that the Treasurer, in his capacity as disbursing officer, has declined to make payment to this Board of the appropriation of the Legislature covering the month of November, 1958, and

WHEREAS, it will be necessary, because of the situation thus created, for this Board in order to meet current expenses including payroll, bills and other obligations, to borrow money for such purposes,

NOW THEREFORE, BE IT RESOLVED that the President, Vice President for Business Affairs and Secretary of Michigan State University or any of them be and hereby are authorized and empowered to negotiate for the borrowing of necessary funds in an amount not to exceed nine hundred thousand (\$900,000.00) dollars for the month of November, 1958, under the most favorable terms with interest not to exceed three and one-half ($3\frac{1}{2}\%$) percent.

BE IT FURTHER RESOLVED that said officers or any of them are authorized and empowered to execute all evidences of indebtedness incident thereto, pledging for payment thereof the anticipated revenues from the State of Michigan in accordance with the appropriation of the Legislature for the current fiscal year and such other security as may be necessary.

Resolution No. 2:

WHEREAS, the financial condition of the State is such that the Treasurer, in his capacity as disbursing officer, has indicated that payment to this Board of the appropriation of the Legislature covering the month of December, 1958, will not be made, and

WHEREAS, it will be necessary, because of the situation thus created, for this Board in order to meet current expenses including payroll, bills and other obligations, to borrow money for such purposes,

NOW THEREFORE, BE IT RESOLVED that the President, Vice President for Business Affairs and Secretary of Michigan State University or any of them be and hereby are authorized and empowered to negotiate for the borrowing of necessary funds in an amount not to exceed two million five hundred fifty-five (\$2,555,000.00) ^{thousand} dollars for the month of December, 1958, under the most favorable terms with interest not to exceed that declared by the Federal Reserve Board for said month.

BE IT FURTHER RESOLVED that said officers or any of them are authorized and empowered to execute all evidences of indebtedness incident thereto, pledging for payment thereof the anticipated revenues from the State of Michigan in accordance with the appropriation of the Legislature for the current fiscal year and such other security as may be necessary.

NEW BUSINESSResignations and Terminations

Resignations

1. Clayton C. Ingerson, Associate Agricultural Agent, October 31, 1958 to enter private business.
2. Edna E. Sommerfeld, Assistant Professor, Extension, January 15, 1959 to accept a position at Pennsylvania State University.
3. Cancellation of the appointment of J. W. Creighton, Professor of Forest Products, January 1, 1959.

NEW BUSINESS, continued

Resignations

Resignations and Terminations, continued

4. Daris D. Moyer, Instructor (Ext.) in Poultry Science, December 8, 1958 to accept a position as Turkey Specialist for A. E. Staley Manufacturing Company at Decatur, Illinois.
5. Edwin B. Sprague, Instructor in Natural Science, December 31, 1958 to accept a position with industry.
6. Carolyn B. Middleton, Assistant Professor of Textiles, Clothing and Related Arts, December 31, 1958, to become a full time homemaker.
7. Branford P. Millar, Professor of English, January 31, 1959 to become President of Portland, Oregon State College.
8. Aileen Brothers, Textbook Editor, M.S.U. Press, November 30, 1958 to accept a position with J. B. Lippincott Company in Chicago.
9. Rudolf E. Nobel, Psychiatrist, Health Service, November 30, 1958 to spend full time in private practice.

Leaves

Leaves--Sabbatical

1. A. J. Panshin, Professor and Head of Forest Products, with full pay from January 1, 1959 to March 31, 1959 to revise a textbook.
2. Philip J. Thorson, Assistant Professor of Mechanical Engineering with half pay from September 1, 1959 to August 31, 1960 to study for his Ph.D. at the University of Michigan.
3. Murray Jones, Associate Professor of Art, with half pay from September 1, 1959 to August 31, 1960 to study and travel in Japan.
4. Edith A. Doty, Assistant Professor of Foreign Languages, with half pay from September 1, 1959 to August 31, 1960 for study and travel in the Philippines and Spain.
5. Donald J. Montgomery, Professor of Physics and Astronomy, with half pay from September 1, 1959 to August 31, 1960 for study at the University of Grenoble, France.
6. Henry S. Leonard, Professor and Head of Philosophy, with half pay from September 1, 1959 to August 31, 1960 to write a book on logic.
7. Earl C. Richardson, Associate Professor, Information Services (Ext.) with full pay from April 1, 1959 to September 30, 1959 for study at M.S.U. and travel.
8. Wilson B. Paul, Director of the Lecture-Concert Series, with full pay from June 15, 1959 to September 30, 1959 to travel around the world.

Leaves--Other

1. Paul J. Deutschmann, Professor of Communication Arts, without pay from October 1, 1959 to December 31, 1959 to teach at Stanford University.
2. George L. Brandon, Associate Professor of Teacher Education, without pay from December 1, 1958 to December 15, 1958 to act as Consultant to the U. S. Office of Education.

Appointments

Appointments

1. Clark D. Paris, Instructor (Res.) in Horticulture, at a salary of \$5200 per year on a 12-month basis effective November 1, 1958 to October 31, 1959.
2. Constance B. Elliott, Assistant Instructor in Short Courses, at a salary of \$50 per month from November 1, 1958 to February 28, 1959.
3. B. C. Roberts, Lecturer in Economics at a salary of \$100 for the period December 4, 1958 to December 5, 1958.
4. Appointment of the following Lecturers in Social Work without salary effective September 1, 1958 to August 31, 1959:

Elmer M. Arneson
 Alfred C. Ball
 Robert A. Berles
 Ruth Mary Bertsch
 Irma M. Bradley
 William R. Brewer
 Helen I. Brown
 Rose T. Brunson
 Flora I. Burgess
 Clarence S. Cole
 Jane Cole
 Rheta M. Collins
 Berneita K. Ebert

Joseph R. Gorman
 Edith Hendrick
 Schuyler Henehan
 Dorothea K. Hunter
 Ruth T. Koehler
 Lorraine Lull
 Patricia A. Millar
 Adeana Peterson
 Marguerite M. Parrish
 Ted A. Pamaretos
 Rebecca Anthony Vaughn
 Elizabeth M. Ungvary
 William D. Rennie

5. S. Margaret Gillam, Assistant Professor of Foods and Nutrition and Continuing Education, at a salary of \$8000 from December 1, 1958 to November 30, 1959.
6. Michael Cimino, Assistant Instructor in Art, at a salary of \$234 for the period October 27, 1958 to December 8, 1958.

NEW BUSINESS, continuedAppointments, continued

7. William E. Field, Lecturer in Veterinary Pathology, at a salary of \$450 for each month December 10, 1958 to June 30, 1959.
8. George Karas, Director of the Physical Plant at Michigan State University-Oakland at a salary of \$7800 per year on a 12-month basis effective December 1, 1958.
9. James A. Matteson, Conference Coordinator in Continuing Education, at a salary of \$4200 per year on a 12-month basis effective November 1, 1958.
10. Robert S. Hanes, Assistant Auditor in the Business Office, at a salary of \$6500 per year on a 12-month basis effective November 10, 1958.

Appointments

Salary Changes

1. Increase in salary for Shigemi Honma, Assistant Professor (Res.) of Horticulture, to \$8200 per year, effective December 1, 1958.
2. Increase in salary for Elizabeth M. Drews, Associate Professor of Foundations of Education, to \$8500 per year effective December 1, 1958.
3. Increase in salary for Bernard Mikol, Instructor in Counseling, to \$7000 per year effective December 1, 1958.

Inc. in salaries for:

Shigemi Honma

Elizabeth M.
DrewsBernard
MikolMiscellaneous

1. Assignment of Margaret B. Harris to the Cooperative Extension Service at a salary of \$8000 per year on a 12-month basis, effective November 1, 1958, to fill position 84. Miss Harris has returned from assignment to the University of the Ryukyus.
2. Change in the effective date of the appointment of Robert Gustafson as Associate Professor (Research) of Agricultural Economics from November 1 to December 1, 1958.
3. Change in status of Trent R. Lewis, Instructor (Research) in Dairy, from a regular appointment under tenure to a temporary appointment ending December 31, 1959.
4. Change in status of Donald Hillman, Field Dairyman (Extension) in Dairy from half time at \$4300 per year to full time at \$8000 per year on a 12-month basis, effective January 1, 1959.
5. Change in status of Roland H. Ebel, Instructor in Political Science, from part-time at a salary of \$2400 on a 10-month basis to two-thirds time at a salary of \$4200 per year on a 12-month basis, effective November 1, 1958.
6. Designation of David K. Berlo as Head of the Department of General Communication Arts at the same salary of \$7700 per year on a 10-month basis, effective December 1, 1958.
7. Payment of \$1500 each to F. S. Tse and J. E. Lay, Associate Professors in Mechanical Engineering for attending summer institutes during the summer of 1958, paid one-half from Atomic Energy Commission grant, account 31-3801, and one-half from University General funds.
8. Change Aleksander Kivilaan from Instructor (Research) to Assistant Professor (Research) of Botany and Plant Pathology with a salary increase from \$5000 to \$5200 per year on a 12-month basis, effective November 1, 1958. Dr. Kivilaan's appointment expires on June 30, 1959.
9. Appointment of Paul D. Bagwell as Director of Scholarships, effective December 1, 1958.
10. Termination of military leave for James A. Matteson, Clerk III in Continuing Education, effective October 31, 1958.
11. Report of the death of George C. Kimball, Specialist in the Vietnam Project, on November 8, 1958.
12. Report of the death of Elwin L. Willett, Associate Professor (Research) of Dairy, on October 22, 1958. Dr. Willett was born on May 26, 1913, and had been a member of the staff since July 1, 1957.
13. Recommendation that the widow of E. L. Willett continue to receive his salary for one year from date of death to October 22, 1959.

Reinstatement
Margaret Harris
at \$8000Ch. ef. date
appt. R.G.
Gustafson to
Dec. 1'58Ch. status
Trent Lewis
and
Donald Hillman

also

Roland H. Ebel

David Berlo
Hd. Dept. Gen
Communication
ArtsAdd. \$1500 pd
to F.S. Tse &
J. E. LayA. Kivilaan
changed to
Asst. Prof.
(Res.)Paul Bagwell
Dir. Scholar.Term. lve
Jas. MattesonReport death
Geo. KimballReport death
E. WillettWidow to
receive yr's
salary

On motion of Mr. Harlan, seconded by Mr. Brody, it was voted to approve Item 13 above.

14. Reclassification of a Clerk-Stenographer II to a Secretary' Departmental II position in International Programs. This position is paid from the Pakistan Project account 71-2234.
15. Request for authorization to use \$4500 of the Alterations and Improvements budget for alterations to the Westrom House on Hagadorn Road which is to be used to house the Michigan State University Press. The total estimate is \$7500 and the Press will pay the balance.
16. Bids for a transmitter house at the Onondaga location for WMSB-TV have been received as follows:

Reclassif.
Cl-Sten II
to Sec-Dept.
II position\$4500 approp
to remodel
Westrom House
for MSU PressContract for
transmitter
house let
to Reniger
Construction
Co.

Reniger Construction Company	\$73,682
Haussman Construction Company	74,617
Banta-Brooks, Inc.	78,000
North Construction Company	88,421

It is recommended that the contract be awarded to the low bidder, the Reniger Construction Company, in the amount of \$73,682 with the understanding that this approval is not finally concluded until the Circuit Court in Jackson officially enters the order dismissing the lawsuit brought in that court to enjoin the Board from proceeding with this construction.

NEW BUSINESS, continued

Miscellaneous, continued

17. Bids were received for three sets of farm buildings on the University Farm, as follows:

Contracts let
for removal
of farm
buildings
to low
bidders

Corner of Farm Lane and Mt. Hope

<u>Bidder</u>	<u>House</u>	<u>Tool Shed</u>	<u>Barn</u>
Wayne D. Chapman	\$856.00		
Clean G. Mengies	305.00		
Don Creyts	500.00	\$ 10.00	
Lewis E. Perkins	137.00	-8.00	-\$74.00
James Barnes		11.00	
Philip Byington		17.50	
Central Wrecking	-99.00	-24.00	- 99.00
Harley Cokonougher			50.00

Corner of Hagadorn and Mt. Hope

	<u>House</u>	<u>Garage</u>	<u>Shed</u>
C. M. Williams	\$ 25.00		
Lewis E. Perkins	-125.00	-\$21.00	-\$13.00
Central Wrecking	- 99.00	- 24.00	- 24.00
Philip Byington		22.50	12.75

3160 Bennett Road

Philip Byington	\$ 50.00		\$17.50
Lewis Perkins	-167.00		-6.00
Central Wrecking	- 99.00		-24.00
Henry Moore			10.00

The buildings have been sold in each case to the highest bidder:

Farm Lane and Mt. Hope

Wayne D. Chapman	House	\$856.00
Philip Byington	Tool Shed	17.50
Harley Cokonougher	Barn	50.00

Hagadorn and Mt. Hope

C. M. Williams	House	25.00
Philip Byington	Garage	22.50
	Shed	12.75

3160 Bennett Road

Philip Byington	House	\$50.00
	Shed	17.50

\$4100 approp
to alter
WKAR-TV
studios

18. Request for authorization to make alterations in the studios for WKAR-TV at an estimated cost of \$4100 to be charged to Alterations and Improvements 1958-59.

19. Receipt of the following resolution of the Michigan State Foresters' Alumni Association at the meeting held in East Lansing, Michigan, November 1, 1958:

Resolution
from Mich.
State Fores-
ters Alumni
Association
received

WHEREAS, Over 50 percent of the land in Michigan is forest land which is used for timber production, recreation, wildlife and water conservation and is the basic resource supporting the wood using and recreation industries of the state; and

WHEREAS, The Michigan State Foresters' Alumni Association is concerned with Michigan State University maintaining its high ranking as one of the outstanding forestry schools of the country; and

WHEREAS, Most of the other major forestry schools have new or modernized facilities while the existing physical facilities available to the Department of Forestry at Michigan State University have not been materially improved in over 40 years; and

WHEREAS, Unless modern adequate facilities are provided for the teaching of forestry, Michigan State University will not be able to maintain its status as a leading forestry school, hold competent faculty, and attract high quality students; and

WHEREAS, in recent years we have had reasonable assurance that adequate facilities for the Department of Forestry would be provided in the near future, and the press account of the proposed capital improvements budget to be submitted to the 1959 Legislature does not show a request for such facilities:

THEREFORE BE IT RESOLVED that the Michigan State Forester's Alumni Association urge that the State Board of Agriculture and the President of Michigan State University give immediate consideration to providing adequate modern facilities for the teaching of forestry at Michigan State University;

AND BE IT FURTHER RESOLVED that copies of this resolution be sent to the State Board of Agriculture and to Dr. John A. Hannah, President of Michigan State University.

NEW BUSINESS, continuedGifts and GrantsGifts and
Grants

1. Gift of a butter dispenser valued at \$150 from the Great Lakes Hotel Supply Company of Detroit for experimental use in the Food Service Industry Research Center.
2. Gift of a set of 50 plants from Asia valued at \$12.50 from I. W. Knobloch of the Natural Science Department to be used for scientific purposes in herbarium in Botany and Plant Pathology.
3. Gift of cricket culture and cricket rearing equipment valued at \$400 from Arol J. Fast of Lansing to be used in Entomology for instruction in insect biology.
4. Gift of 8 volumes of "Psychological Review" valued at \$50 from A. G. Dietze in the Psychology Department to improve the departmental library facilities.
5. Gift of one Hedera Helix Var. Kirschner valued at \$10 from G. Clifton Sammis of Long Island, New York, to be used in Grounds to observe adaptability and landscape characteristics.
6. Grant of \$1500 from the Knights Templar of Wisconsin of Milwaukee to provide a loan to a student who is presently enrolled.
7. Grants for scholarship purposes, as follows:
 - a. To provide grants for specified students:
 - 1) \$125 from Rochester Polish People's Home, Inc. of Rochester, New York
 - 2) \$333.33 from the Samuel Friedland Family Foundation of Miami, Florida
 - 3) \$255 from Denstaedt's Shop-Rite Market of Lansing
 - 4) \$500 from the Jessie Smith Noyes Foundation, Inc., of New York City
 - 5) \$3300 from the Nigeria Liaison Office of Washington, D. C.
 - b. To be credited to established scholarships:
 - 1) \$25 from Carolyn Greve of Rochester, New York, to be added to the Elizabeth Daniels Scholarship Fund, 31-3212
 - 2) \$300 from the Fred Harvey Company of Chicago
 - 3) \$660 from The Detroit Edison Company of Detroit
 - 4) \$500 from the National Starch Products of New York City
 - 5) to be credited to the Michigan Bankers' Association Short Course Scholarship Fund, account 31-3348:
 - a) \$100 from Imlay City State Bank
 - b) \$50 from Midland National Bank
 - c) \$150 from the First National and Chemical State Savings Banks of Midland
 - d) \$100 from the Metamora State Savings Bank
 - c. \$500 from The Willey Foundation of Detroit to establish a Willey Foundation scholarship for a needy or worthy female student in Home Economics; or if such a student is not available, the scholarship shall be granted to a needy or worthy student of either sex in Business Administration.
8. Grant of \$100 from the J. C. Penney Stores of Northern Michigan of Petoskey to be used under the direction of R. G. Mawby in 4-H Clubs for the expenses of one 4-H leadership delegate to the 1958 Club Congress in Chicago.
9. Grant of \$784.50 from the New York Central Railroad Company of New York City to be used under the direction of R. G. Mawby in 4-H Clubs for 4-H Clover awards and for 4-H leaders luncheon at the State 4-H Show.
10. Grant of \$15,028 from the United States Department of Agriculture of Washington, D. C., to be used under the direction of L. J. Bratzler in Animal Husbandry to study and improve the quality and processing characteristics of frankfurter and bologna-type sausage-like products through the use of dry milk solids. Provision is made for special graduate research assistants.
11. Approval of a memorandum of agreement with the General Foods Corporation of Battle Creek covering a grant of \$1200 to be used under the direction of J. W. Goff in Forest Products for testing the score quality of corrugated box boards.
12. Renewal of a memorandum of agreement with the Modern Packaging Corporation of New York City covering a grant of \$2000 to be used under the direction of A. J. Panshin in Forest Products to establish the Modern Packaging Fellowship Award for a teaching assistantship in the School of Packaging.
13. Approval of a memorandum of agreement with the Apple Advisory Committee of Cherry Growers, Inc., of Traverse City covering a grant of \$500 to be used under the direction of A. L. Kenworthy, D. H. Dewey, and H. B. Tukey in Horticulture to secure and disseminate information on factors associated with the incidence of bitter pit in North Spy apples.
14. Renewal of a memorandum of agreement with the Michigan State Florists Association of Lansing covering a grant of \$1700 to be used under the direction of P.R. Krone in Horticulture to employ a half-time typist.
15. Renewal of a memorandum of agreement with the National Apple Institute of Washington, D.C. covering a grant of \$500 to be used under the direction of E. H. Lucas in Horticulture for an apple feeding experiment.
16. Renewal of a memorandum of agreement with the International Minerals and Chemical Corporation of Chicago covering a grant of \$3000 to be used under the direction of Kirkpatrick Lawton, J. F. Davis, and R. L. Cook in Soil Science to study the magnesium status of Michigan soils and to determine the needs of various crops for magnesium fertilizers. The agreement provides for a special graduate research assistant.

NEW BUSINESS, continuedGifts and
GrantsGifts and Grants, continued

17. Grant of \$591.04 from the National Restaurant Association of Chicago to be used under the direction of Leon Newcomer in Hotel, Restaurant, and Institutional Management for the purchase of laboratory equipment for the Food Service Industries Research Center.
18. Renewal of a memorandum of agreement with the United Community Chest of Ingham County covering a grant of \$1,000 to be used under the direction of E. B. Harper in Social Work to provide a graduate fellowship.
19. Renewal of a memorandum of agreement with the Sears-Roebuck Foundation of Chicago covering a grant of \$1,000 to be used under the direction of Myles Boylan in Urban Planning and Landscape Architecture for graduate student teaching assistants and visual aids.
20. Renewal of a memorandum of agreement with the Educational Television and Radio Center of Ann Arbor covering a grant of \$15,000 to be used under the direction of Malcolm S. MacLean, Jr. in the Communications Research Center to study the content of Educational Television Center films and audience reactions to aspects of content.
21. Approval of a memorandum of agreement with the National Dairy Council of Chicago covering a grant of \$4,000 to be used under the direction of Gale Mikles in Health, Physical Education, and Recreation to study the effect of milk consumption on athletic performance. The agreement provides for a special graduate research assistant.
22. Grant of \$3,000 from the Bendix Aviation Corporation of Detroit to be used in the College of Engineering to provide assistance to a capable graduate student in electronics or a related field.
23. Grant of \$300 from the National Retail Merchants Association of New York City to be used under the direction of Marion A. Niederpruem in Textiles, Clothing, and Related Arts to complete a cooperative research project in retailing.
24. Grant of \$14,600 from the National Science Foundation of Washington, D.C. to be used under the direction of E. A. Hiedeman in Physics and Astronomy for a study of the diffraction of light by transparent solids vibrating at ultrasonic frequencies. Provision is made for special graduate research assistants.
25. Grant of not to exceed \$3,955 from the Eastman Kodak Company of Rochester, New York, to be used in the Department of Physics and Astronomy for a terminal fellowship for a high-ranking Ph.D. student.
26. Renewal of a memorandum of agreement with the United States Air Force Office of Scientific Research of Washington, D. C., covering a grant of \$16,310 to be used under the direction of G. B. Beard and W. H. Kelly in Physics and Astronomy to continue the investigation of the properties of low-lying nuclear energy levels. The agreement provides for special graduate research assistants.
27. Grant of \$25 from Dr. L. E. Fisher of Berwyn, Illinois, to be used under the direction of Dean Armistead in Veterinary Medicine for the benefit of the teaching program in Veterinary Medicine.
28. Grants as follows to be used under the direction of H. R. Neville in Continuing Education to support the Christmas Adventure in World Understanding Program:
 - \$500 from Consumers Power Company of Lansing
 - \$400 from Michigan Bell Telephone Company of Detroit
 - \$500 from The Detroit Edison Company of Detroit
29. Grant of \$140 from the Corn Products Company of Chicago to be credited to the discretionary gifts fund as an expression of their appreciation for the contribution made in training their personnel.
30. Grant of \$1600 from St. Luke's Hospital Board of Directors of Saginaw to be used under the direction of the Scholarship Director and the School of Nursing to provide 2 scholarships for 7 terms and maintenance for on-campus term in the senior year and during the public health nursing field experience.

Alteration &
improvement
items approvedReports for Board Members

1. Alteration and improvement items approved since the October Board meeting:

a. Place hall lights in Education, Library, and Student Services on key switch	\$680
b. Refinish seven tables in Room 107, Agricultural Engineering	45
c. Install women's rest room, Engineering Shops	670
	\$1395

Add. payments
to salaried
employees
approved

2. Payments to salaried employees, as per list on file.

On motion of Dr. Smith, seconded by Mr. Rouse, it was voted to approve all items of New Business on which action does not already appear.

ADDITIONAL ITEMSResignations and Terminations

1. Archie R. Ayers, Associate Professor of Continuing Education, November 19, 1958 to accept a position with the U. S. Office of Education.

Resignations

Leaves--Other

1. Thomas H. Osgood, Dean of Graduate Studies, without pay from January 16, 1959 to March 31, 1960, to accept a foreign assignment.

Leaves

Appointments

1. O. H. Brownlee, Lecturer in Economics, at a salary of \$220 for the period November 12, 1958 to November 15, 1958.

Appointments

Salary Changes

1. Hideya Kumata, Associate Professor in the Communications Research Center to \$9000 per year effective December 1, 1958.
2. Increase in salary for Robert J. Battin, Assistant Agricultural Editor, in Information Services to \$6000 per year effective December 1, 1958.
3. Increase in salary for Donald Hayworth, Professor of General Communication Arts, to \$9000 per year effective December 1, 1958.

Salary inc.
Hideya Kumata

Robert Battin

Don Hayworth

Miscellaneous

1. The following actions are recommended by the Department Heads and the Deans in accordance with the tenure rules:

Approval of
tenure
recommenda-
tions

- a. Associate Professors who have served their probationary terms and acquire tenure with this reappointment, effective September 1, 1959:

Richard J. Aldrich	Agricultural Experiment Station
*Clinton E. Meadows	Dairy (Extension)
Fred C. Elliott	Farm Crops
Carlton M. Edwards	Forest Products
Donald P. White	Forestry
Jonathan W. Wright	Forestry
Clarence E. Lewis	Horticulture
Lawrence H. Battistini	Social Science
Arnold Brekke	Social Science
J. Leon Newcomer	Hotel, Rest. and Inst. Mgt.
Ralph D. Wilson	Hotel, Rest. and Inst. Mgt.
Stanley C. Hollander	Marketing and Transportation
Winston Oberg	Personnel and Production Adm. and Cont. Educ.
Charles A. Rogers	Personnel and Production Administration and Labor and Industrial Relations Center
Joseph D. Nicol	Police Administration and Public Safety
Alfred C. Schaur	Police Administration and Public Safety
Alfred G. Meyer	Political Science
Bruce L. Smith	Political Science
Hideya Kumata	Communications Research Center
Malcolm MacLean, Jr.	Communications Research Center
J. Colby Lewis, III	Television, Radio, and Film
Thomas Clinton Cobb	Administrative and Educational Services
Elizabeth M. Drews	Foundations of Education
Stanley Paul Wronski	Foundations of Education and Division of Social Science
Joachim E. Lay	Mechanical Engineering
Barbara Wilcox	Nursing
Bill L. Kell	Psychology and Counseling Center
Charles F. Wrigley	Psychology
Moreau S. Maxwell	Museum and Sociology and Anthropology
George E. Peterson	Placement Bureau and Education

*Subject to completion of Ph.D. degree.

- b. Assistant Professors who have served their probationary terms and acquire tenure with this reappointment, effective September 1, 1959:

Harry K. Bell	Horticulture
Harold J. Raphael	Forest Products
Charles C. Sheppard	Poultry Science
Wade W. McCall	Soil Science
Kenneth Macrorie	Communication Skills
Ralph Renwick, Jr.	Communication Skills
Aurelius L. Thurman	Communication Skills
Frank E. Pellerin	Intercollegiate Athletics

ADDITIONAL ITEMS, continued

Miscellaneous, continued

Approval of
tenure recom-
mendations

1. Recommended actions in accordance with tenure rules, continued:

b. Assistant Professors who have served their probationary terms and acquire tenure with this reappointment, effective September 1, 1959, continued:

John H. Reinoehl	Humanities	Henry Krause	Mechanical Engr.
Karl F. Thompson	Humanities	Roland L. Fischer	Entomology
Wilbert E. Wade	Natural Science	Henrietta Eppink	Nursing
Jack E. Ryan	Police Adm. & Pub. Safety	Russell E. Friedewald	Music
W. Cameron Meyers	Journalism	Edgar L. Kirk	Music
Frederick G. Alexander	Speech	James L. Dye	Chemistry
Jed H. Davis	Speech	Alvin C. Gluek, Jr.	History
Ralph Leutenegger	Speech	Gwendolyn Norrell	Counseling Center
James B. Tintera	Adm. & Educ. Serv.		

c. Second probational appointment as Assistant Professors for three years from Sept. 1, 1959:

Lester V. Manderscheid	Agric. Econ.	Richard W. Bishop	Teacher Educ.
Frederick H. Buelow	Agric. Engr.	Charles A. Blackman	Teacher Educ.
Richard C. Nicholas	Agric. Engr.	Calhoun C. Collier	Teacher Educ.
Robert J. Deans	Animal Husbandry	Weldon H. Frase	Teacher Educ.
Elwyn R. Miller	Animal Husbandry	Peter G. Haines	Teacher Educ.
Duane E. Ullrey	Animal Husbandry	Wm. J. Walsh, Jr.	Teacher Educ.
Sanford M. King	F. Crops & Soil Sci.	Clement A. Tatro	Applied Mech.
Forrest D. Freeland	Forestry	Wm. A. Blackwell	Elec. Engr.
Richard S. Lindstrom	Horticulture	John V. Jeffries	Elec. Engr.
Lloyd P. Coburn	Communication Skills	Edw. L. McMahon	Elec. Engr.
H. Kelly Crockett	Communication Skills	Samuel M. Futral, Jr.	Mech. Engr.
John R. Kirk	Communication Skills	Anita J. Dean	Foods and Nutrition
Elbert R. Moses, Jr.	Communication Skills	Evelyn M. Jones	Foods and Nutrition
Jerry J. West	Communication Skills	John H. Beaman	Botany & Plant Path.
Arvo E. Juola	Evaluation Services	Geo. W. Gillett	Botany & Plant Path.
Lincoln C. Pettit	Natural Science	Henry A. Imshaug	Botany & Plant Path.
Dennis W. Strawbridge	Natural Science	Howard W. Potter	Botany & Plant Path.
Fauzi M. Najjar	Social Science	Marvin M. Hensley	Zoology
Milton S. Goldberg	Acct. & Fin. Adm.	Robert F. Unkefer	Music and Psychology
Gardner M. Jones	Acct. & Fin. Adm.	Howard E. Campbell	Mathematics
John L. O'Donnell	Acct. & Fin. Adm.	W. Eugene Deskins	Mathematics
Kenneth O. Alexander	Economics	Henrich Larcher	Mathematics
Thomas Mayer	Economics	Robert H. Oehmke	Mathematics
W. Paul Strassman	Economics	Gerard P. Weeg	Mathematics
Robert J. Wolfson	Economics	Wm. G. Hammerle	Physics and Astron.
Ruben V. Austin	Ins. Law & Real Es. Adm.	Julius S. Kovacs	Physics and Astron.
James J. Cavanaugh	Ins. Law & Real Es. Adm.	Charles H. Kraft	Statistics
E. L. Marietta	Ins. Law & Real Es. Adm.	Charles W. Boas	Geography
Edward W. Smykay	Market. & Transp-Con Ed	Richard S. Rudner	Philosophy
Richard F. Gonzales	Pers. & Prod. Adm.	Abram M. Barch	Psych. & HTSC
Victor G. Strecher	Pol. Adm. & Pub. Safety	Mary R. Haworth	Psychology
Robert G. Scigliano	Pol. Sci. & BurSoc & Pol Res	Gerald F. King	Psych. & HTSC
Carl Goldschmidt	Ur. Plan & Lands Arch	Jay W. Artis	Soc. and Anthropol.
Huber Ellingsworth	Speech	Jack J. Preiss	Soc. and Anthropol.
James W. Costar	Adm. & Educ. Serv.	John E. Nellor	Physiol. & Pharm.
Roy A. Edelfelt	Adm. & Educ. Serv.	Frank N. Elliott	Museum and History
Wm. W. Farquhar	Adm. & Educ. Serv.	Sheldon Cherney	Continuing Educ.
Robert Mayberry	Health, Phys. Ed. & Rec.	Forrest L. Erlandson	Counseling Center

d. Promote to Assistant Professor effective September 1, 1959:

*John M. Fohr Insurance, Law, and Real Estate

*Subject to completion of Ph. D. degree.

e. Third probationary appointment as Instructors for a period of three years from September 1, 1959:

Denio Caul	Cooperative Ext. Serv.	Barbara R. Southward	H. Phys. & Rec.
Richard G. Pfister	Agric. Engineering	Norma R. Stafford	H. Phys. & Rec.
Rolland E. Wheaton	Agric. Engineering	George W. Ferns	Teacher Educ.
Gordon G. Smith	Communication Skills	Robert O. Nolan	Teacher Educ.
Edward W. Natharius	Humanities	Lorn L. Howard	Elec. Engr.
Howard J. Pollman	Humanities	John J. LaRue	Elec. Engr.
Alfred Wolf	Humanities	Burton H. Wayne	Elec. Engr.
William P. Pielou	Natural Science	Edwin C. Bergmann	Mech. Engr.
Robert E. Smolker	Natural Science	Kenneth W. Lahr	Mech. Engr.
Oscar Glantz	Social Science	Mary C. Coleman	Foods and Nut.
George D. Bedell	Hotel, Res. & Inst. Mgt.	Rachelle Schemmel	Foods and Nut.
Wm. D. Stafford	Hotel, Res. & Inst. Mgt.	Vonciel Zankel	Home Mgt. & Ch. Dev.
Merton J. Turck, Jr.	Adm. & Educ. Serv.	Grace Masuda	Inst. Adm. & Dorm F S
Stanley Drobac	Health, Phys. Ed. & Rec.	Mabel R. Cooper	T C R A
Jean T. Leety Horwood	" " " "	Margaret E. Werner	T C R A
Jean C. McIntyre	" " " "	Clifford C. Beck	Surgery & Med.
Herbert W. Olson	" " " "	Neal R. Cholvin	Surgery & Med.
		David J. Ellis	Surgery & Med.

ADDITIONAL ITEMS, continued

Miscellaneous, continued

Approval of
tenure recom-
mendations

1. Actions in accordance with tenure rules, continued:

f. Second probationary appointment as Instructors for a period of two years from September 1, 1959:

Earl H. Brown	Agric. Economics (Ext.)	Edwin R. Baltimore	Acc. & Finan Adm.
Malcolm L. Wood	Agric. Economics (Ext.)	Wm. L. Ferrara	" " " "
Ralph E. Morrow	Animal Husbandry	Joseph P. Miles	Bus. Educ. & Off. Adm.
Leslie M. Reid	Resource Development	Clayton Millington	" " " " "
Boyd G. Ellis	Soil Science	Warren S. Theune	" " " " "
David D. Anderson	Communication Skills	Emily S. Hobbs	Home Mgt. and Ch. Dev.
Marilyn M. Culpepper	Communication Skills	Josephine Oudyn	Home Mgt. and Ch. Dev.
C. Gratton Kemp	Communication Skills	Rita Adroske	T C R A
Martin Kornbluth	Communication Skills	Barbara A. Spilker	T C R A
Charles A. McKee	Communication Skills	Ruth J. Snure	Nursing
C. Eugene Osborne	Communication Skills	Rita M. Fuszek	Music
R. Edw. Richeston, Jr.	Communication Skills	Chas. McDermid	Music & Cont. Educ.
Charles I. Switzer	Communication Skills	Michael J. Dark	Anatomy
Irvin J. Lehmann	Evaluation Services	Donald L. Piermattei	Surgery and Medicine
Jean A. Gross	Natural Science	Charles F. Hall	Veterinary Path.
Daniel K. Stewart	Natural Science	Robert J. V n Ryzin	Veterinary Path.
Oscar Taboada	Natural Science	Clayton H. Wells	Continuing Educ.
William V. D'Antonio	Social Science	Norman Abeles	Counseling Center
Lloyd G. Ritzema	Mechanical Engineering		

2. Reappointment of the following individuals who have served their probationary periods, effective for one year from September 1, 1959:

A. Nicholas Vardac, Associate Professor	Television, Radio, and Film
Pauline A. Hess, Instructor	Health, Phys. Educ. and Recreation
Fritz B. Harris, Assistant Professor	Mechanical Engineering
Phillip J. Thorson, Assistant Professor	Mechanical Engineering
Mary L. Rosencranz, Instructor	T C R A
Edward Richmond, Instructor	Music
Lawrence A. Schmid, Assistant Professor	Physics and Astronomy
Irving J. Dahljelm, Instructor	Microbiology and Public Health
James A. Williams, Instructor	Veterinary Pathology

3. Removal of William H Carter from the tenure system and change in title from Instructor to School Plant Specialist in Administrative and Educational Services, effective Sept. 1, 1959.

4. The following individuals are not recommended for reappointment and thereby terminate employment on August 31, 1959:

Ralph M. Grimes, Assistant Professor	Agricultural Chemistry
Robert E. Dennis, Instructor	Short Courses
Edgar A. Schlueter, Instructor	Natural Science
Bernard F. Aschbacher, Assistant Professor	Acct. and Finan Adm.
Doris Berry, Instructor	Business Education and Office Adm.
Charles Soltis, Assistant Professor	Personnel and Prod. Adm.
Jack M. Carter, Instructor	Speech
Orville K. Larson, Assistant Professor	Speech
James A. Stitzel, Assistant Professor	Speech
Wilson E. Schwahn, Assistant Professor	Foundations of Education
Alpheus C. Bemis, Instructor	Applied Mechanics
James C. Sternberg, Assistant Professor	Chemistry
William J. Mathey, Jr., Associate Professor	Veterinary Pathology

On motion of Mr. Brody, seconded by Mr. Stevens, it was voted to approve the recommendations in Items 1, 2, 3 and 4 relative to tenure actions.

5. Report that E. W. Weidner, Director of the Institute of Research on Overseas Programs, had returned from overseas and his salary is to revert to \$13,600 per year, effective October 1, 1958.

E.W. Weidner
salary to be
\$13,600
Oct. 1'58

6. Recommendation that the name of the Engineering Experiment Station be changed to the Division of Engineering Research, effective December 1, 1958.

Engr. Exp. Sta
to be Div.
Engr. Res.

7. Recommendation that J. W. Hoffman, now Associate Director of Engineering Experiment Station, be designated Director of the Division of Engineering Research, effective December 1, 1958.

J. W. Hoffman
designated
Dir. Div.
Engr. Res.

9. At the last Board meeting in connection with the preparation of our budget request that has been submitted to the state legislature, comparative salary information comparing our salaries with other Big 10 schools and the University of California were presented to the Board. These figures showed that at the professor level Michigan State ranked 9th among the Big 10 schools, at the associate professor level we ranked 5th, at the assistant professor level we ranked 5th, and at the instructor level we ranked 1st.

Salary
comparisons
with other
Big 10
schools

At the annual meeting of the American Association of Land-Grant Colleges and State Universities last week in Washington, the U.S. Office of Education distributed information covering all land-grant colleges and universities. This material shows that all land-grant colleges and

ADDITIONAL ITEMS, continuedMiscellaneous, continued

9. Comparative salaries, continued:

universities averaged an increase in salaries by more than 8% this year over last year with varying percentages for the other ranks. This further points up the problem we face due to the fact that our salary schedules are actually lower for the current year than they were the previous year, and we now find ourselves in a most unfavorable salary position as compared to other universities. No problem faces Michigan State University of higher priority than the one of more adequate salaries for the members of our teaching staff.

Approval lve
T. H Hamilton
Jan. 16-Mar.1
to spend month
at Univ. of
Philippines

10. The University of the Philippines urgently requests that we permit Vice President Hamilton to spend one full month at the University of the Philippines in the near future. It is recommended that the Board authorize Mr. Hamilton to make this trip at the expense of the International Cooperation Administration, leaving here about January 16 and returning about March 1.

On motion of Mr. Stevens, seconded by Mr. Harlan, it was voted to approve a leave of absence for Vice President Hamilton from January 16 to March 1, 1959.

Report of
Dean Muelder
& Dr. Haynes
rePlans for
cyclotron

11. Report from Mr. Varner on progress at MSU-O.
12. Dean Muelder and Professor Haynes of the Physics Department met with the Board to outline the progress that is being made in the development of plans for a cyclotron and the progress in acquiring outside funds from the Atomic Energy Commission and the National Science Foundation to assist in financing it.

Gifts and
Grants

Gifts and Grants

1. Grant of \$150 from The Southbridge Exchange Club of Southbridge, Massachusetts to continue an educational grant for a student enrolled during the fall term.
2. Approval of a memorandum of agreement with the Detroit Metropolitan Area Regional Planning Commission of Detroit covering a grant of \$197.63 to be used under the direction of L. M. Reid in Resource Development to initiate a program of cooperative survey work and research in the field of park and recreational planning with the Detroit Metropolitan Area Regional Planning Commission.
3. Approval of a memorandum of agreement with the Michigan Turfgrass Foundation of East Lansing covering a grant of \$2,000 to be used under the direction of James Tyson in Soil Science to study the effects of controllable factors on the oxygen supply in the root zone and on the growth and distribution of the roots of grasses used in putting greens.
4. Grant of \$180,900 from the National Science Foundation of Washington, D.C., to be used under the direction of F. B. Dutton in the Science and Mathematics Teaching Center to provide additional instruction in the fields of science and mathematics to in-service high school and junior college teachers in the summer school of 1959. Provision is made for special graduate research assistants.
5. Grants to be used under the direction of H. R. Neville in Continuing Education to support the Christmas Adventure in World Understanding Program, as follows:

\$100 from H. E. Renaud of Lansing
\$ 50 from the Woman's National Farm and Garden Association of Jackson
\$ 50 from the United Church Women of Flint
\$ 75 from the Woman's National Farm and Garden Association of Saginaw

On motion of Mr. Rouse, seconded by Mr. Stevens, it was voted to approve all Additional Items on which action does not already appear.

The Board adjourned at 12:10 p.m.

The next meeting will be held Thursday, December 18, 1958.

John A. Hannah

President

Carl H. McDonald

Secretary