



COMMENCEMENT 1968

MICHIGAN STATE UNIVERSITY

THE COMMENCEMENT COMMITTEE

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Student Representative

Following the close of the 1968 Winter term, approximately seven weeks are required to complete the processing of academic records and the preparation of diplomas. Based on this schedule, diplomas will be mailed in May, 1968.



COMMENCEMENT 1968

Sunday, March 10

University Auditorium, East Lansing

ACADEMIC COSTUME

The pageantry and color at commencement exercises reveal a record of academic achievement of the various individuals taking part in the exercises. The following brief description is given that the audience might more readily interpret such achievement.

In 1895, the Intercollegiate Commission, a group of leading American educators, met at Columbia University to draft a code which would serve to regulate the design of gowns and hoods indicating the various degrees as well as the colors to indicate the various faculties. This code has been adopted by most of the colleges and universities in America and its use has made identification of scholastic honors an immediate activity.

Three types of gowns are indicated by the code. Those worn by the bachelors are made of black worsted material and have long, pointed sleeves. Those worn by masters may be made either of black silk or black wool and have long, closed sleeves with the arc of a circle near the bottom. The arm goes through a slit, giving the appearance of short sleeves for the master's gown. Doctor's gowns are made of black silk and are faced with velvet. The sleeves are full, round and open with three bars of velvet on each sleeve. The velvet facing of bars on the sleeves may be black or the same color as the binding of the hood.

Hoods are made of material identical with the gown and are lined in the official academic color of the institution conferring the degree. If the institution has more than one color, the chevron is used to introduce the second color. Colored velvet or velveteen binds the hoods and indicates the department or faculty to which the degree pertains.

Historical associations of color have been continued to signify the various faculties. Art and letters can be recognized by the white, taken from the traditional white fur trimming of the Oxford and Cambridge Bachelor of Arts hoods. Red, long traditional of the church, indicates theology. The royal purple of the King's court signifies law. The green of medicinal herbs immediately identifies a medical degree. Philosophy is signified by the color of wisdom and truth, blue. Because through research untold wealth has been released to the world, science is identified by golden yellow. Oxford pink indicates music and russet brown, the color of dress worn by ancient English foresters, indicates forestry.

The color of the velvet of the hood is distinctive of the subject to which the degree pertains. For example, the trimming for the degree of Master of Science in Agriculture should be maize, representing agriculture, rather than golden yellow, representing science.

At Michigan State University, it is customary to identify the bachelors graduating from the different departments of study by tassels of the official department color as established by the Intercollegiate Code.

COLLEGE OF AGRICULTURE
AND NATURAL RESOURCES *Maize*
Forest Products,
Forestry, Packaging *Russet*
COLLEGE OF ARTS AND
LETTERS *White*
Music *Pink*
Philosophy *Navy Blue*
COLLEGE OF BUSINESS *Drab*
Economics *Copper*
COLLEGE OF
COMMUNICATION ARTS..... *Royal Blue*
Journalism *Crimson*
Speech *Silver Gray*
COLLEGE OF EDUCATION..... *Light Blue*
COLLEGE OF ENGINEERING..... *Orange*

COLLEGE OF
HOME ECONOMICS *Maroon*
COLLEGE OF
HUMAN MEDICINE *Green*
JAMES MADISON COLLEGE *Citron*
JUSTIN MORRILL COLLEGE *White*
LYMAN BRIGGS
COLLEGE *Golden Yellow*
COLLEGE OF
NATURAL SCIENCE *Golden Yellow*
Nursing *Apricot*
COLLEGE OF
SOCIAL SCIENCE *Citron*
COLLEGE OF
VETERINARY MEDICINE *Dark Gray*

ORDER OF CEREMONIES

PROCESSIONAL

Selections from *THE GOOD SHEPHERD SUITE* — *G. F. Handel-Beechem*
The University Symphony Orchestra, conducted by Leon Gregorian

AMERICA — *Smith*

The Orchestra and Audience

INVOCATION

THE REVEREND HERBERT C. JACKSON, Ph.D.
Associate Professor of Religion, Michigan State University

ADDRESS

LOGAN WILSON, A.M., Ph.D., LL.D.
President, American Council on Education

SPECIAL MUSIC

SCHERZO FOR PIANO AND ORCHESTRA — *Hubert Arnold*
Conducted by the composer

CONFERRING OF DEGREES

JOHN A. HANNAH, D.Agr., LL.D., L.H.D., D.Sc.
President, Michigan State University

Music by the University Brass Choir
Professor Douglas Campbell, *Director*

ALMA MATER — *Traynor*

M.S.U., we love thy shadows
When twilight silence falls,
Flushing deep and softly paling
O'er ivy-covered halls.
Beneath the pines we'll gather
To give our faith so true,
Sing our love for Alma Mater
And thy praises, M.S.U.

When from these scenes we wander
And twilight shadows fade,
Our mem'ry still will linger
Where light and shadows played.
In the evening oft we'll gather
And pledge our faith anew,
Sing our love for Alma Mater
And thy praises, M.S.U.

(The Orchestra and Audience)

BENEDICTION

THE REVEREND DOCTOR JACKSON

RECESSIONAL

Selections from *THE GOOD SHEPHERD SUITE* — *G. F. Handel-Beechem*
The University Symphony Orchestra, conducted by Leon Gregorian

The escorts for the procession are members of Mortar Board, Tower Guard and Alpha Lambda Delta, honor societies for University women.

The audience is requested to remain seated while those in the procession are entering and leaving the auditorium.

BOARD OF TRUSTEES

Michigan State University operates under the jurisdiction of a constitutional body known as the Board of Trustees. The eight elected members serve eight-year terms. Two are elected biennially from the state at large.

The President of the University is appointed by the Board and is by constitutional provision the presiding member of the body.

The Board likewise appoints a Secretary and a Treasurer.

The Board has general supervision of the University and the control and direction of all expenditures of University funds.

THE HONORABLE C. ALLEN HARLAN	<i>Southfield</i>
THE HONORABLE CONNER D. SMITH	<i>Pinconning</i>
THE HONORABLE STEPHEN S. NISBET	<i>Fremont</i>
THE HONORABLE DON STEVENS	<i>Okemos</i>
THE HONORABLE FRANK HARTMAN	<i>Flint</i>
THE HONORABLE CLAIR WHITE	<i>Bay City</i>
THE HONORABLE FRANK MERRIMAN	<i>Deckerville</i>
THE HONORABLE KENNETH W. THOMPSON	<i>Birmingham</i>

JOHN A. HANNAH, <i>Ex Officio, President</i>	<i>East Lansing</i>
JACK BRESLIN, <i>Secretary</i>	<i>East Lansing</i>
PHILIP J. MAY, <i>Treasurer</i>	<i>East Lansing</i>

MICHIGAN STATE UNIVERSITY

Michigan State University, one of the leading land-grant universities and the first agricultural college in America, strives for excellence in affording liberal and practical education for its students in a broad range of human endeavors.

MSU also serves people of the state, nation and world through its numerous research, extension and international programs.

Now in its 114th year, Michigan State has grown from three buildings and six faculty members to one of the ten largest universities in the nation. It has approximately 3,000 staff members engaged in teaching, research and public service, 439 buildings, and approximately 5,000 acres of land of which 2,010 acres are in existing or planned campus development.

Founded in 1855 to educate youth for the major occupation of that day — farming — MSU has broadened its offerings to meet the educational needs of today. Michigan State now has the School for Advanced Graduate Studies and 15 colleges — Agriculture and Natural Resources, Arts and Letters, Business, Communication Arts, Education, Engineering, Home Economics, Human Medicine, James Madison, Justin S. Morrill, Lyman J. Briggs, Natural Science, Social Science, Veterinary Medicine and the University College — which offer basic courses for all freshmen and sophomores. Nearly 200 areas of specialization are available to undergraduates; approximately 300 are offered for graduate students.

The Honors College, which enables superior students to waive normal graduation requirements and undertake individual programs, attracts many of the nation's finest young scholars. The Merit Scholarship Program, of which Michigan State University is a prominent sponsor, enrolled nearly 200 Merit Scholars in this year's freshman class. This figure represents more than seven percent of the nation's total of this unusually select group.

One of the newest of many innovations in higher education made by Michigan State University is its coeducational academic residence halls. Incorporation of classrooms and faculty offices with living, dining and recreational facilities has given these giant new dormitories, now nine in number, a stimulating academic environment. Each of these halls is the center of curricular and noncurricular activities, creating a "college within a college" atmosphere.

The "small college within the larger university" concept was introduced in 1965 at MSU by the establishment of the Justin S. Morrill College, which offers a limited enrollment liberal education program with an international emphasis; an intensive program in foreign languages is required of all Justin Morrill Students. The concept was expanded in 1967 by the establishment and opening of the James Madison College and the Lyman J. Briggs College. James Madison offers a curriculum for the study of public policy problems within the framework of the social sciences and related disciplines. Lyman Briggs makes available a liberal curriculum for students especially interested in science and mathematics.

MICHIGAN STATE UNIVERSITY

(continued)

Today, nearly 39,000 students attend the University at East Lansing. About 80 percent are from Michigan, representing every section of the state. Students also come from every state in the nation and 78 foreign countries.

Looking to the future, Michigan State University is preparing for increasingly larger enrollments as the great number of children born after World War II reach college age. To meet this challenge, MSU is revising curriculums and developing new teaching techniques through its Educational Development Project.

In the land-grant tradition it pioneered, Michigan State University is concerned with research and service as well as teaching.

All colleges and the Agricultural Experiment Station are engaged in a wide range of research. Some 2,100 individual projects are in progress. The University's research tools include the giant Control Data 3600 Computer and a 50-million-volt cyclotron. Modern facilities include the following new buildings: Chemistry, biochemistry, psychology research, veterinary medicine, plant science research, and natural resources.

Through an agreement with the Atomic Energy Commission, MSU will become a national center for basic research on plants and their reactions to radiation. Involved is construction of a \$2 million building, a staff of approximately 90 persons and an annual budget of approximately \$1 million when the program is fully underway.

Benefits of the University are brought to every county in Michigan by the Cooperative Extension Service and the Continuing Education Service. Their programs, on and off campus, provide a wide range of technical information and formal course work for hundreds of thousands of Michigan citizens. The Kellogg Center for Continuing Education, one of the finest conference centers in the nation, annually hosts nearly 50,000 adults who come to the campus for some 600 conferences and other educational meetings.

Michigan State University's land-grant concept of service is international. Supported by grants from the federal government and private foundations, Michigan State University maintains research and technical assistance projects in Asia, Africa and Latin America. International projects have given many faculty members overseas experience, adding a new dimension to their teaching.

With more than a century of educational achievement behind it, Michigan State University continues to apply its academic and physical resources to the problems of today and the challenges of the future.

HONORARY DEGREE

LOGAN WILSON

As a teacher, scholar, and administrator you have given abundant evidence of your dedication to American education. As a social scientist you have shown the vision and compassion of a man deeply concerned with human welfare. Because of your energy and integrity you have succeeded in a broad range of educational responsibilities: As Dean at Tulane University, Vice President of The University of North Carolina, and President of the University of Texas. All of American higher education has gained from your distinguished leadership as President of the American Council on Education, as Director of the Center for Advanced Study of the Behavioral Sciences, and in many other capacities. You have consistently evidenced a devotion to knowledge and truth, and a gifted capacity for understanding the social and educational process. Because of your unusual accomplishments, your sustained faith in the tradition of American education and your continuing dedication to human values in the modern world, Michigan State University confers upon you the degree of Doctor of Laws.

THE CANDIDATES FOR DEGREES

1968 CLASS ROSTER

This includes the names of candidates for degrees for March, 1968.

Candidates are listed by School for Advanced Graduate Study and by colleges. The colleges are arranged in the order in which they were established.

SCHOOL FOR ADVANCED GRADUATE STUDIES

MILTON E. MUELDER, DEAN

CANDIDATES FOR THE DOCTORAL DEGREES

S. SAGHIR AHMAD, Ph.D.

B.A., Forman Christian College; M.A., University of the Punjab.
Sociology. Major Professor: John Useem, Professor.
Thesis: Class and Power in the Panjabi Village.

LUZ LAURELES ALMIRA, Ph.D.

B.S.E., University of Sto. Tomas; M.A., Michigan State University.
Education. Major Professor: Walter F. Johnson, Professor.
Thesis: Institutional Provisions for Faculty Development in Seven
Tax-Assisted Colleges of Education in Michigan 1966-1967.

MONA ANAND, Ph.D.

B.S., M.S., University of Bombay.
Chemistry. Major Professor: G. T. Karabatsos, Professor.
Thesis: Deamination of 1-Pentylamines and 1-Hexylamine.

RITA FEIERSTEIN BAKAN, Ph.D.

A.B., Brooklyn College; M.A., Michigan State University.
Education. Major Professor: Wilbur B. Brookover, Professor.
Thesis: The Relationship of Achievement-Variability to Academic
Performance and Self-Concept of Academic Ability.

ZIAEDDIN BANIHASHEMI, Ph.D.

B.S., University of Tehran; M.S., University of California.
Botany and Plant Pathology. Major Professor: Donald J. deZeeuw,
Professor.
Thesis: The Biology and Ecology of *Fusarium oxysporum* f. *melonis*
in Soil and the Root Zones of Host and Nonhost Plants.

JAMES ALLEN BAUMBACH, Ph.D.

B.S., Carroll College.
Chemistry. Major Professor: Carl H. Brubaker, Jr., Professor.
Thesis: Growth Studies of Vacuum Evaporated Thin Metal Films De-
posited on Amorphous Substrates.

VERYL EDWIN BECKER, Ph.D.

B.S., Gustavus Adolphus; M.S., South Dakota State University.
Botany and Plant Pathology. Major Professor: Clifford J. Pollard,
Assistant Professor.
Thesis: Studies on Nucleic Acids of Plants.
I. Deoxyribonucleic Acids of Plastids.
II. The Use of Nucleoside Phosphotransferase and (³²P)p-Nitro-
phenyl Phosphate for the Determination of 5'-linked Termini
of Ribosomal Ribonucleic Acid.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- DONALD CLARENCE BEITZ, Ph.D. B.S., M.S., University of Illinois.
Dairy and Biochemistry. Major Professors: J. William Thomas, Professor, Willis A. Wood, Professor.
Thesis: Characteristics of a Cell-Free Protein Synthesizing System Isolated From Lactating Bovine Mammary Glands.
- DAVID GORDON BENNETT, Ph.D. A.B., East Carolina College; M.A., Michigan State University.
Geography. Major Professor: Clarence W. Minkel, Professor.
Thesis: Population Structure and Mobility: A Study of Arkansas State Economic Area 7.
- MARVIN KENNETH BEUTE, Ph.D. B.S., Calvin College.
Botany and Plant Pathology. Major Professor: John L. Lockwood, Professor.
Thesis: Mechanism of Increased Root Rot in Virus-Infected Peas.
- EDSEL GEORGE BIXLER, Ph.D. B.S., Esc. Particular de Agric; M.S., University of Maryland.
Poultry Science. Major Professor: Robert K. Ringer, Professor.
Thesis: The Effects of Feed Restriction and Light Control in Turkey Reproductive Physiology.
- DARWIN GILBERT BRAUND, Ph.D. B.S., Pennsylvania State University; M.S., University of Wisconsin.
Dairy. Major Professor: John T. Huber, Associate Professor.
Thesis: Factors Affecting the Storage, Excretion, and Placental Transfer of Dieldrin in Dairy Cattle.
- JAMES LEE BREWBAKER, Ph.D. B.S., University of Michigan; M.S., University of Illinois.
Chemistry. Major Professor: Harold Hart, Professor.
Thesis: Cyclizations of 1,3-Bisdiazopropane and 3-Diazopropenes.
- WEBSTER RAGAN CALLAWAY, Ph.D. B.A., Bob Jones University; M.A., Ed.S., George Peabody College.
Education. Major Professor: William K. Durr, Professor.
Thesis: A Study of the Relationship of a Holistic Conception of Creativity to Intelligence.
- WEI-HSIEN CHANG, Ph.D. B.S., National Taiwan University.
Biochemistry. Major Professor: Nathan E. Tolbert, Professor.
Thesis: Excretion of Organic Acids During Photosynthesis by Synchronized Algae.
- JAMES ARTHUR CLARK, Ph.D. B.A., University of Michigan; M.A., M.S., Michigan State University.
Psychology. Major Professor: Bill L. Kell, Professor.
Thesis: Criterion Pattern Analysis: A Method for Identifying Predictive Item Configurations.
- THOMAS SCOTT CLEVINGER, Ph.D. B.S., M.S., Oregon State University.
Agricultural Economics. Major Professor: Harold M. Riley, Professor.
Thesis: An Analysis of Pricing and Marketing Practices of a Michigan Celery Producer Organization.
- CONSTANTINE DEMETRIOS CONSTANTINIDES, Ph.D. M.M., Indiana University.
Music. Major Professor: H. Owen Reed, Professor.
Thesis: Concerto for Violin, Violoncello, Piano, and Orchestra.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- RALPH DONALD CROSS, Ph.D. A.B., Eastern Michigan University; M.A., University of Oklahoma. Geography. Major Professor: Ian M. Matley, Professor.
Thesis: The Measurement and Spatial Variation of Modal Wheat Concentrations in the American Hard Winter Wheat Belt in 1964.
- PETER ROY ELLIS, Ed.D. B.S., M.A., Western Michigan University. Education. Major Professor: Donald J. Leu, Professor.
Thesis: A Study of the Director of Public Relations at Selected Michigan Private Colleges.
- EDWARD ARTHUR FERNALD, Ph.D. B.S., M.S., Florida State University. Geography. Major Professor: Paul C. Morrison, Professor.
Thesis: An Optimum Land Use Model for a Delimited Area Contiguous to the Cross-Florida Barge Canal.
- ROBERT DEAN FOX, Ph.D. B.S., M.S., Michigan State University. Agricultural Engineering. Major Professor: Sverker P. Persson, Associate Professor.
Thesis: A Strength Criterion for Granular Materials With Special Reference to Arch Formations in Seeds.
- DOUGLAS JAMES GERRARD, Ph.D. B.S., M.S., University of Toronto. Forestry. Major Professor: Victor J. Rudolph, Professor.
Thesis: Competition Quotient: An Index of the Competitive Stress Affecting Individual Forest Trees.
- LOUIS HOMER GROSSMAN, Ph.D. B.A., University of Michigan; M.B.A., Michigan State University. Business Administration (Marketing). Major Professor: Stanley C. Hollander, Professor.
Thesis: A Case Study Investigation of Changes in Department Store Merchandising Strategies.
- JOHN McDONELL HALLOIN, Ph.D. B.S., University of Wisconsin; M.S., University of Minnesota. Botany and Plant Pathology. Major Professor: Clifford J. Pollard, Assistant Professor.
Thesis: The 5'-Linked Termini of Plant Ribosomal Ribonucleic Acids.
- PAUL RUDOLPH HASBARGEN, Ph.D. B.S., M.S., University of Minnesota. Agricultural Economics. Major Professor: Glenn L. Johnson, Professor.
Thesis: The Competitive Position of Cattle Feeding in the Northern Corn Belt.
- FRANCIS HOWARD HILDEBRAND, Ph.D. B.S., Kent State University; M.S., University of Illinois. Education. Major Professor: Calhoun C. Collier, Professor.
Thesis: An Approach to Teaching Mathematical Induction to Adolescent Boys.
- AXEL ALFRED JOHNSON, III, Ph.D. B.A., M.S.W., Michigan State University. Education. Major Professor: Dale V. Alam, Assistant Professor.
Thesis: A Study of the Relationship Between Nonpromotion and the Male Student's Self-Concept of Academic Ability and His Perceived Parental, Friends', and Teachers' Evaluations of his Academic Ability.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- MANLEY FRANK JOHNSON, Ed.D. B.S., State University of New York; M.A., University of California. Education. Major Professor: George R. Myers, Professor.
Thesis: A Study of Criteria for Selection of Supervising Teachers in Secondary Schools as Perceived by Student Teaching Administrators in Big Ten Universities.
- TIMOTHY EDWARD JOSLING, Ph.D. B.S., Wye College; M.S., University of Guelph. Agricultural Economics. Major Professor: Dale E. Hathaway, Professor.
Thesis: The United Kingdom Grains Agreement (1964): An Economic Analysis.
- ERIC PHILIP KAFKA, Ph.D. B.A., M.A., State University of New York. Education. Major Professor: William W. Farquhar, Professor.
Thesis: The Effects of Overseas Study on World Mindedness and Other Selected Variables of Liberal Arts Students.
- HAROLD FREDERICK KAISER, Ph.D. B.S., M.S., Iowa State University. Forestry. Major Professor: Lee M. James, Professor.
Thesis: The Michigan Furniture Industry and Its Utilization of Wood Products.
- NORMAN EDSSEL KELKER, Ph.D. B.S., Hiram University; M.S., Purdue University. Microbiology and Public Health. Major Professor: David T. Clark, Professor.
Thesis: The Utilization of Nucleic Acid Precursors by Malaria Parasites.
- HARRY W. KEPPELER, Ph.D. B.A., Heidelberg College; M.S., University of Michigan. Horticulture. Major Professor: Richard S. Lindstrom, Associate Professor.
Thesis: Factors in Growth of Axillary Buds in *Chrysanthemum Morifolium*.
- DADI N. KERAWALA, Ph.D. B.S., M.S., Poona, India. Horticulture. Major Professor: Donald H. Dewey, Professor.
Thesis: Fruit Factors Affecting Gas Exchange and the Development of Brown Heart in Jonathan Apples Stored in Controlled Atmospheres.
- VADAKKENCHERRY NARAYANAN KRISHNAN, Ph.D. B.A., M.A., B.L., University of Madras. Economics. Major Professor: Subbiah Kannappann, Associate Professor.
Thesis: An Analysis of Wage Trends in Manufacturing Industries in India, 1950-1960.
- GEOFFREY Z. KUCERA, Ph.D. B.A., M.A., University of Florida. Communication. Major Professor: Walter Emery, Professor.
Thesis: Broadcasting in Africa: A Study of Belgian, British and French Colonial Policies.
- RONALD PATON LANE, Ph.D. B.S., M.S., University of Georgia. Horticulture. Major Professor: Clinton E. Peterson, Professor.
Thesis: Nutritive Value and Culinary Quality of Some Breeding Lines of Carrot, *Daucus Carota*, as Determined in Bioassay by the Meadow Vole, *Microtus Pennsylvanicus*.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- JOSEPH THEODORE LUNDQUIST, JR., Ph.D. B.S., M.S., Michigan State University.
Chemistry. Major Professor: Richard S. Nicholson, Associate Professor.
Thesis: Theory and Application of the Potential Step-Linear Scan Electrolysis Method. Kinetics and Mechanism of Reduction of Substituted Azobenzene Compounds.
- MARILYN H. MACKENZIE, Ph.D. B.A., San Jose State College; M.A., Michigan State University.
Psychology. Major Professor: Lucy R. Ferguson, Associate Professor.
Thesis: The Interpersonal Behavior of Normal and Clinic Family Members.
- FLOYD JOSEPH MALVEAUX, Ph.D. B.S., Creighton University; M.S., Loyola University.
Microbiology and Public Health. Major Professor: Charles L. San Clemente, Professor.
Thesis: Purification, Characterization, and Localization of Staphylococcal Acid Phosphatase.
- RICHARD THOMAS MARKS, Ph.D. B.S., University of Montana; M.S., Montana State College.
Forestry. Major Professor: Lee M. James, Professor.
Thesis: A Study of the Direct Users of the Gallatin National Forest, U.S. Forest Service, Region 1, Bozeman, Montana.
- JACK KINRADE MAWDSLEY, Ed.D. B.S., M.S., Southern Illinois University.
Education. Major Professor: Richard L. Featherstone, Professor.
Thesis: A Study of the Delegation of Administrative Tasks by Principals of the Large High Schools in Michigan as Related to Selected Variables.
- PHILIP EDWIN MCCLAIN, Ph.D. B.S., University of Missouri; M.S., Louisiana State University.
Food Science. Major Professor: Albert M. Pearson, Professor.
Thesis: Physical and Chemical Characterization of Epimysial Connective Tissue.
- NEIL FRANKLIN MEADOR, Ph.D. B.S., University of Missouri; M.S., Virginia Polytechnic Institute.
Agricultural Engineering. Major Professor: Merle L. Esmay, Professor.
Thesis: Withdrawal Resistance of a Pile Type Foundation.
- JACK EDWARD MEEDER, Ed.D. B.A., M.A., Michigan State University.
Education. Major Professor: Clyde M. Campbell, Professor.
Thesis: A Study of Attitudes and Problems Relating to State-Wide Tenure and Compulsory Bargaining for Teachers in Michigan.
- MARK SAMUEL MOUNT, Ph.D. B.S., Illinois Wesleyan University.
Botany and Plant Pathology. Major Professor: Albert H. Ellingboe, Associate Professor.
Thesis: Environmental Effects and Transfer Events During Primary Infection of Wheat by *Erysiphe Graminis*.
- LEONARD PAUL MURTAUGH, Ed.D. B.S., M.S., Indiana State University.
Education. Major Professor: Carl Hereford, Professor.
Thesis: Participation in Adult Education Programs and Attitudes Toward Public Schools.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- ROBERT MORRIS NAGLE, Ph.D. A.B., Albright College; M.A., Michigan State University.
Psychology. Major Professor: Norman Abeles, Professor.
Thesis: Personality Differences Between Graduate Students in Clinical and Experimental Psychology at Varying Experience Levels.
- CECIL D. NICKELL, Ph.D. B.S., Purdue University.
Crop Science. Major Professor: John E. Grafius, Professor.
Thesis: An Analysis of a Negative Response to Selection for High Yield in Winter Barley, *Hordeum Vulgare*.
- CHESTER EUGENE ORZECZ, JR., Ph.D. B.S., Illinois Institute of Technology.
Chemistry. Major Professor: G. T. Karabatsos, Professor.
Thesis: Part I. Proton $-^{13}\text{C}$ Spin-Spin Coupling.
Part II. Carbonium Ion Rearrangements in the *n*-Propyl and Neopentyl Systems.
- OLIVER HILTON OSBORNE, Ph.D. B.S., Hunter College; M.S., New York University.
Anthropology. Major Professor: Charles C. Hughes, Professor.
Thesis: The Egbado of Egbaland.
- AHMED ABDULLAHI OSMAN, Ph.D. B.S., University of Khartoum; M.S., University of Oxford.
Agricultural Economics. Major Professor: Lawrence W. Witt, Professor.
Thesis: Planning, Agricultural Policies, and Policy Implementation in the Republic of the Sudan.
- ROBERT STEVEN PATTERSON, Ph.D. B.E., M.E., University of Alberta.
Education. Major Professor: Carl H. Gross, Professor.
Thesis: The Establishment of Progressive Education In Alberta.
- PHILIP ANTHONY PILATO, Ph.D. B.S., Canisius College.
Chemistry. Major Professor: Harry A. Eick, Professor.
Thesis: High Temperature Mass Spectrometry: Samarium Dicarbide and Neodymium (III) Monotelluro Oxide.
- DAVID ERNEST POLSON, Ph.D. B.S., M.S., Utah State University.
Crop Science. Major Professor: Maurice W. Adams, Professor.
Thesis: The Physiologic-Genetic Study of the Differential Response of Navy Beans (*Phaseolus Vulgaris* L.) to Zinc.
- RICHARD LA VERN POWELL, Ph.D. B.S., Central Michigan University; M.A., University of Michigan.
Audiology and Speech Science. Major Professor: Oscar I. Tosi, Assistant Professor.
Thesis: Vowel Recognition Threshold as a Function of Temporal Segmentation.
- ROBERT JOSEPH REMINGTON, Ph.D. B.A., M.A., University of Kentucky.
Psychology. Major Professor: Terrence M. Allen, Professor.
Thesis: Analysis of Sequential Effects in Choice Reaction Times.
- RODGER REID RICE, Ph.D. A.B., Calvin College; M.A., Michigan State University.
Sociology. Major Professor: J. Allan Beegle, Professor.
Thesis: Metropolitan Dominance and the Persistence of the Urban-Rural Fertility Differential: A Distributive Approach to the Study of Factors Affecting Urban-Rural Fertility in the United States, 1960.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

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| DONALD JAY RYNBRANDT, Ph.D. | B.A., Hope College.
Biochemistry. Major Professor: John C. Speck, Jr., Professor.
Thesis: Glycosidase-Substrate Interactions, Glycoside Model Hydrolysis Rates and Lysozyme-Substrate Reactions. |
| KANAK R. SAMADDAR, Ph.D. | B.S., President College; M.S., C. U. College of Science.
Botany and Plant Pathology. Major Professor: Robert P. Scheffer, Professor.
Thesis: Mechanism of Action of the Primary Determinant of Pathogenicity from <i>Helminthosporium Victoriae</i> . |
| MADHABANANDA SAR, Ph.D. | B.V.S., Bihar University; M.S., Michigan State University.
Physiology. Major Professor: Joseph Meites, Professor.
Thesis: Studies of the Neuroendocrine Control of Prolactin Secretion in Rats. |
| ALLEN E. SHAPLEY, Ph.D. | B.S., M.S., Cornell University.
Agricultural Economics. Major Professor: Karl T. Wright, Professor.
Thesis: Alternatives in Dairy Farm Technology with Special Emphasis on Labor. |
| DENNIS BURTON SHINN, Ph.D. | B.S., M.S., University of New Hampshire.
Chemistry. Major Professor: Harry A. Eick, Professor.
Thesis: Structural and Phase Investigations.
I. Crystal Structure of Lanthanum Carbonate Octahydrate.
II. Phase Analyses of Lanthanide Oxide Fluorides. |
| DUDLEY TEMPLETON SMITH, Ph.D. | B.S., M.S., University of Maryland.
Crop Science. Major Professor: William F. Meggitt, Professor.
Thesis: Movement and Persistence of a Herbicide, 5-amino-4-chloro-2-phenyl-3 (2H)-pyridazinone (Pyrazon), in Soil. |
| THEODORE NOSS SMITH, Ph.D. | B.A., Central College; M.A., University of Missouri.
Speech and Theatre. Major Professor: David C. Ralph, Professor.
Thesis: A Rhetorical Analysis of the Pleading in United States v. Dennis <i>et al.</i> |
| ALLAN DANIEL STEEVES, Ph.D. | B.S., M.S., University of Toronto.
Sociology. Major Professor: Denton Morrison, Assistant Professor.
Thesis: The Impact of Non-Farm Occupations Upon Selected Attitude Characteristics of Farm Residents. |
| JOHN EDWARD STEINHAUER, Ph.D. | B.S., M.S., Purdue University.
Food Science. Major Professor: Lawrence E. Dawson, Professor.
Thesis: Quantitative Determination of Certain Short-Chain Acids in Frozen Whole Eggs by Gas-Liquid Chromatography. |
| WILEY ERNEST THOMPSON, Ph.D. | M.S., Michigan State University.
Electrical Engineering. Major Professor: Herman E. Koenig, Professor.
Thesis: Stability of Interconnected Systems. |

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CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

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- BRUCE SÁNDOR VOGEL, Ph.D. B.A., Brooklyn College; M.A., Michigan State University. Psychology. Major Professor: Donald L. Grummon, Professor. Thesis: Amoral Responses to Transgression.
- JOSEPH MARTIN WHITE, JR., Ed.D. Ph.B., M.Ed., University of Detroit. Education. Major Professor: Donald J. Leu, Professor. Thesis: Effects on Teacher Attitude and Behavior When Teachers Plan the Student Teaching Program for Students Assigned to a Participating School in a Teaching Center.
- MILDRED LORRAINE WILLIAMS, Ed.D. B.A., M.A., Michigan State University. Education. Major Professor: Helen H. Green, Professor. Thesis: An Analysis and Comparison of the Shorthand Section of the Civil Service Stenographic Examinations and Public High School Business Teacher Shorthand Tests.
- ROGER ALLEN WOLTHUIS, Ph.D. B.A., University of Michigan; M.S., Michigan State University. Physiology. Major Professor: William D. Collings, Professor. Thesis: The Design and Use of a Dye-Dilution Technique for Continuous Measurement of Blood Flow in the Forearm and Hand of Man.

EDUCATIONAL SPECIALIST DEGREE

- JUNE GLORIA CHAPIN, Ed.S. B.S., Western Michigan University; M.B.A., University of Denver. Education. Major Professor: Laurine E. Fitzgerald, Associate Professor.
- MARY VIRGINIA HAGER, Ed.S. B.A., Wheaton College; M.A., Western Michigan University. Education. Major Professor: Walter F. Johnson, Professor.
- JOHN WALTER SANDERS, Ed.S. B.A., Beloit College; M.A., Michigan State University. Education. Major Professor: John H. Suehr, Professor.

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Kadhun Ibrahim Saied

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Bahman Ehdaie
Habibollah Fakhrail
Julius Alani B. Oyedokun
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Krishna Mohan Prasad

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Alycia Tirado

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	<i>Art Practice</i> Ieva Gezila Burkovskis Thomas James Esterline Dennis Edmund Kallek Poonsook Tevintarapakti	<i>French</i> Melanie Leroy Masset Mary Elizabeth Hill Whitten	<i>Philosophy</i> Daniel Lee Brodrick William Richard Connolly, Jr. Roger Lee Haverfield Clifford J. Hawkins Charles Michael Lebrato Harold J. Rood Walter Anthony Zilonis, Jr.
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DEGREE OF
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H**Margaret Susan Burrow

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The following students have completed their ROTC Education at Michigan State University and have received their commissions as reserve officers of the United States Air Force or the United States Army in the branches indicated.

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Robert W. Weston

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*Van E. Priest
Richard B. Thompson
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Artillery
Lawrence A. Gilley, Jr.

Chemical Corps
*Robert G. Snyder
Paul A. Wulff

Finance Corps
Douglas H. Baker

Infantry
Neil E. Childs
Walter R. Palmer

Military Intelligence
*Terry A. O'Connor

Signal Corps
Barry J. Johnson

Transportation Corps
Terrance A. Oemke
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