



COMMENCEMENT 1965
MICHIGAN STATE UNIVERSITY



COMMENCEMENT 1965

Saturday, December 11
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.....	<i>Maize</i>	COLLEGE OF EDUCATION.....	<i>Light Blue</i>
Forest Products,		COLLEGE OF ENGINEERING.....	<i>Orange</i>
Forestry, Packaging.....	<i>Russet</i>	COLLEGE OF	
COLLEGE OF ARTS AND		HOME ECONOMICS.....	<i>Maroon</i>
LETTERS.....	<i>White</i>	COLLEGE OF NATURAL	
Music.....	<i>Pink</i>	SCIENCE.....	<i>Golden Yellow</i>
Philosophy.....	<i>Navy Blue</i>	Nursing.....	<i>Apricot</i>
COLLEGE OF BUSINESS.....	<i>Drab</i>	COLLEGE OF	
Economics.....	<i>Copper</i>	SOCIAL SCIENCE.....	<i>Citron</i>
COLLEGE OF		COLLEGE OF	
COMMUNICATION ARTS.....	<i>Royal Blue</i>	VETERINARY MEDICINE.....	<i>Dark Gray</i>
Journalism.....	<i>Crimson</i>		
Speech.....	<i>Silver Gray</i>		

ORDER OF CEREMONIES

PROCESSIONAL

FESTAL MARCH — *Thomas*

Michigan State University Band, Professor Leonard Falcone, *Director*

AMERICA — *Smith*

My country, 'tis of thee,
Sweet land of liberty,
Of thee I sing;
Land where my fathers died,
Land of the pilgrims' pride,
From ev'ry mountain side,
Let freedom ring!

INVOCATION

PROFESSOR SYLVAN H. WITTWER

*Director, Agricultural Experiment Station, Michigan State University
President, Lansing Stake, Church of Jesus Christ of Latter-day Saints*

ADDRESS

THE HONORABLE JOHN C. MACKIE, CLASS OF 1942
Member of Congress, Seventh District of Michigan

SPECIAL MUSIC

FINALE FROM SYMPHONY NO. 4 — *Tschaikowsky*

CONFERRING OF DEGREES

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

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.

BENEDICTION

DR. WITTWER

RECESSIONAL

TRIUMPHAL MARCH — *Mancinelli*

The escorts for the procession are members of Mortar Board, the honor society for senior 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 WARREN M. HUFF, <i>Chairman</i>	<i>Plymouth</i>
THE HONORABLE FRANK MERRIMAN	<i>Deckerville</i>
THE HONORABLE C. ALLEN HARLAN	<i>Southfield</i>
THE HONORABLE CONNOR 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>

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 111th 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 2,500 staff members engaged in teaching, research and public service, 429 buildings, and 4,900 acres of land, including 1,440 acres in the campus and housing area and 420 more in planned 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 young people today. Michigan State now has the School for Advanced Graduate Studies and 13 colleges — Agriculture, Arts and Letters, Business, Communication Arts, Education, Engineering, Home Economics, Human Medicine, Justin S. Morrill, 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 212 Merit Scholars in this year's freshman class. This figure represents more than ten per cent 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 a stimulating academic environment. Seven of these residence halls are now occupied and one more is under construction. Each of these halls is the center of curricular and noncurricular activities for a college, creating a "college within a college" atmosphere.

The "small college within the larger university" concept was advanced in 1965 by the establishment of the Justin S. Morrill College, which offers a limited enrollment liberal education program with an international emphasis. The college does not have departments as such, and attention is centered on quality teaching within small groups. In addition to an intensive program in foreign languages, the college requires sequences of study in the humanities, social science, natural science, a field of concentration, senior independent study, and electives.

MICHIGAN STATE UNIVERSITY

(continued)

Today, more than 35,000 students attend the University at East Lansing. About 80 per cent are from Michigan, representing every section of the state. Students also come from every state in the nation and 80 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 1,700 individual projects are in progress. The University's research tools include the giant Control Data 3600 Computer and a 50-million-volt cyclotron which began operations this year. Facilities completed recently include a \$6 million chemistry building, a \$5.2 million biochemistry laboratory, an \$862,000 psychology research building, and a \$4.7 million veterinary medicine building.

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 about 90 persons and an annual budget of about \$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 at 21 educational institutions 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 DEGREES

JOHN CURRIE MACKIE

Your achievements as an engineer, administrator, and public official have been extraordinary. During your tenure as State Highway Commissioner, Michigan acquired a position of national leadership in highway planning and construction. The rapid extension of our interstate highway system, our state freeways, and other arteries of transportation provide impressive evidence of the vision and energy which you brought to the responsibilities of that office. You were honored by your colleagues in the other forty-nine states when they elected you as president of the American Association of State Highway Officials. Your election to the United States Congress is indicative of the esteem in which you are held by your fellow citizens. In recognition of your distinguished career and the honor which you have brought to yourself, to this university and to our state, Michigan State University is proud to confer upon you the degree of Doctor of Laws.

SUNDARAM KRISHNAMURTHI

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Since your graduation from Michigan State University nearly two decades ago, you have built a distinguished career as an educator, research scientist, and civil servant. Your patient labors in the field of horticultural research have contributed notably to the agricultural and economic progress of your native land. Your many accomplishments as an administrator and writer have added to your reputation not only throughout India but also in other parts of the world. As Director of Agriculture in Madras and as a prominent member of other educational and governmental agencies, your exemplary leadership has conspicuously advanced methods of agricultural production. Because of your initiative and dedication to the social and economic welfare of the people of India, Michigan State University proudly confers upon you the degree of Doctor of Science.

W.S.K.

THE CANDIDATES FOR DEGREES

1965 CLASS ROSTER

This includes the names of candidates for degrees for December, 1965, including Summer Doctoral Candidates.

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

DONALD VAN ADAMS, Ed.D.

B.A., State College of Iowa; M.A., Michigan State University.
Education. Major Professor: Walter F. Johnson, Professor.
Thesis: An Analysis of Student Subcultures at Michigan State University.

MARVEL JUNE ALLARD, Ph.D.

B.A., M.A., Michigan State University.
Psychology. Major Professor: Eugene H. Jacobson, Professor.
Thesis: Correlates of Language Attitudes of Students from India.

IVAN LUIS BARRIENTOS-MONZÓN, Ph.D.

Licenciatura en Filosofía, Facultad de Humanidades, Universidad de San Carlos de Guatemala.
Education. Major Professor: Carl H. Gross, Professor.
Thesis: 'Life', 'Culture', and 'Higher Education' in the Philosophy of Jose Ortega y Gasset.

JAMES STUART BEADLE, Ph.D.

B.S., Western Michigan University; M.S., University of Michigan.
Education. Major Professor: Harold J. Dillon, Professor.
Thesis: A Survey and Analysis of the Educational Program of the Academic School of the State Prison of Southern Michigan, Jackson, Michigan, and its Implications for the Rehabilitation of Released Inmates.

MEHDI BEHZAD, Ph.D.

B.S., University of Tehran; M.S., Michigan State University.
Mathematics. Major Professor: Edward A. Nordhaus, Professor.
Thesis: Graphs and their Chromatic Numbers.

EDWARD JEROME BICKNELL, Ph.D.

D.V.M., Kansas State University; M.S., Michigan State University.
Botany and Plant Pathology. Major Professor: C. Kenneth Whitehair, Professor.
Thesis: Experimental Ammonia Toxicosis in the Pig.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES – Continued

- NICHOLAS J. BORRELLI, Ph.D. B.A., University of Rochester; M.A., Michigan State University.
Psychology. Major Professor: Bill L. Kell, Professor.
Thesis: The Client's Perception of Therapist's Potency and Changes in Psychotherapy.
- ROBERT WINDSOR BROWN, Ph.D. B.A., Adrian College; M.A., Michigan State University.
Education. Major Professor: William H. Roe, Professor.
Thesis: A Study of Institutional Purposes and Practices as They Relate to the Christian Tradition in the Methodist Four Year College.
- MICHAEL DANIEL BYER, Ph.D. B.S., University of Massachusetts; M.S., Michigan State University.
Botany and Plant Pathology. Major Professor: John E. Cantlon, Professor.
Thesis: Pattern Analysis Along a *Pinus-Chamaedaphne* Transition as a Key to Vegetational Structure and Organization.
- REXFORD E. CARROW, Ph.D. B.S., M.S., Michigan State University
Anatomy. Major Professor: Roger E. Brown, Assistant Professor.
Thesis: Fiber Size and Capillary to Fiber Ratio in the Gastrocnemius Muscle of Exercised Rats.
- JOHN A. CENTRA, Ph.D. A.B., New York State College of Education at Albany; M.A., Columbia University.
Education. Major Professor: William W. Farquhar, Professor.
Thesis: Student Perceptions of Total University and Major Field Environments.
- VENKAREDDY CHENNAREDDY, Ph.D. B.S., M.S., Andhra University.
Agricultural Economics. Major Professor: Glenn L. Johnson, Professor.
Thesis: Present Values of Expected Future Income Streams and Their Relevance to Mobility of Farm Workers to the Nonfarm Sector in the United States, 1917-62.
- JOHN W. CHILDS, Ph.D. B.S., Central Michigan University; M.A., Michigan State University.
Education. Major Professor: Horace C. Hartsell, Professor.
Thesis: A Study of the Belief Systems of Administrators and Teachers in Innovative and Non-Innovative School Districts.
- KENT M. CHRISTIANSEN, Ph.D. B.S., M.S., Brigham Young University.
Education. Major Professor: William W. Farquhar, Professor.
Thesis: The Relationship of Educational-Occupational Background, Stereotypy, Traditional-Emergent Values, Sex, and Academic Aptitude of College Students to Counseling Pursuit.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES – Continued

HENRY CO, Ph.D.	M.S., University of California. Food Science. Major Professor: Pericles Markakis, Associate Professor. Thesis: Biosynthetic Precursors of Pelargonidin 3-glucoside in the Strawberry Fruit.
KEITH DALMAIN COX, Ph.D.	A.B., Eastern Michigan University; A.M., University of Michigan. Communication. Major Professor: Erwin P. Bettinghaus, Associate Professor. Thesis: An Investigation of the Interaction of Printed and Spoken Words.
RICHARD EDWARD CZARNECKI, Ph.D.	B.S., M.B.A., University of Detroit. Business Administration. Major Professor: James Don Edwards, Professor. Thesis: Selected Applications of Managerial and Financial Accounting to the Roman Catholic Church.
CHESTER L. DAVIS, Ph.D.	B.S., Western Michigan University; M.S., University of Michigan. Mathematics. Major Professor: Lawrence E. Malvern, Professor. Thesis: Iterative Solutions of Plane Elastostatic Problems.
ROBERT ALLAN DAVIS, Ph.D.	B.S., M.S., Michigan State University. Plant Pathology. Major Professor: Donald J. deZeeuw, Professor. Thesis: Effects of Fungicide Treatment of Soil on Certain Components of the Soil Microflora.
HAROLD LEE DOWELL, JR., Ph.D.	B.S.M.E., University of Oklahoma; M.S.M.E., University of North Dakota. Mechanical Engineering. Major Professor: R. T. Hinkle, Professor. Thesis: Practical Limitations To Analytic Synthesis Of A Four-Link Mechanism Function Generator.
DEMPSEY MIDDLETON DUPREE, Ph.D.	B.B.A., M.B.A., University of Michigan. Business Administration. Major Professor: Charles J. Gaa, Professor. Thesis: An Evaluation of Tax-Qualified Retirement Plans for Self-Employed Individuals.
PAUL MONTGOMERY DUPREE, Ph.D.	B.S., St. Lawrence University. Inorganic Chemistry. Major Professor: Robert N. Hammer, Associate Professor. Thesis: Preparation of Silyl and Siloxanyl Chromates.
GEORGE DANIEL EASTMAN, Ed.D.	A.B., University of Washington; M.S., New York University. Education. Major Professor: Harold J. Dillon, Professor. Thesis: An Analysis of Words and Terms Relevant and Important to the Study and Teaching of Police Organization and Management in the American Municipal Police Service and Recommended Definitions.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — Continued

ALBERT WALDEN ENDS, JR., Ph.D.

A.B., San Jose State College; M.A., San Francisco State College.
Education. Major Professor: George R. Myers, Associate Professor.
Thesis: An Examination of the Interrelation Among Authoritarian Personality, Critical Practicality and Selected Variables of Teacher Behavior.

OWEN EDWARD FINNEGAN, Ph.D.

B.A., Weston College; M.A., Boston College; S.T.B., Woodstock College.
Communication and Philosophy. Major Professor: H. Kumata, Professor.
Thesis: An Historical and Metaphysical Study of Natural Law Theory Applied to Questions of Freedom of Expression in The United States.

JOSEPH MURRAY FIRESTONE, Ph.D.

B.A., Cornell University; M.A., Michigan State University.
Political Science. Major Professor: Charles R. Adrian, Professor.
Thesis: Political Conflict: A Theory in Comparative Analysis in Five Cultures.

IMOGENE JOHNS FREER, Ph.D.

B.S., Southwestern State; M.S., Oklahoma State University.
Education. Major Professor: Harold J. Dillon, Professor.
Thesis: A Study of the Effect of a College Reading Program Upon Grade Point Average in Odessa College, Odessa, Texas.

RAYMOND GERKOWSKI, Ph.D.

B.A., M.A., Western Reserve University.
Education. Major Professor: Harold J. Dillon, Professor.
Thesis: A Study of Music Offerings in Thirty Public School Adult Education Programs in the United States.

MAURICE B. GOUDZWAARD, Ph.D.

B.A., M.B.A., Michigan State University.
Business Administration. Major Professor: Roland I. Robinson, Professor.
Thesis: The Effect of Rate Structure Upon the Availability of Credit at Consumer Finance Companies.

EDWARD FRANCIS GRITSAVAGE, Ph.D.

B.S., King's College; M.S., Catholic University.
Microbiology and Public Health. Major Professor: Frank R. Peabody, Associate Professor.
Thesis: The Cytochemical Effect of Freezing on *Escherichia Coli* (ATCC #11303).

SAMU-NEGUS HAILE-MARIAM, Ph.D.

B.S., Haile Selassie I University; M.S., University of California.
Horticulture. Major Professor: Sylvan H. Wittwer, Professor.
Thesis: Mechanisms of Foliar Penetration, and Translocation of Mineral Ions with Special Reference to Coffee (*Coffea arabica* L.).

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — Continued

JAMES HENRY HAND, Ph.D.

B.A., Grinnell College.

Chemistry. Major Professor: Richard H. Schwendeman, Associate Professor.
Thesis: Microwave Spectra, Molecular Structure, Quadrupole Coupling, Dipole Moment, and Ring Bending Vibration of 1, 3, 2, — Dioxaborolane.

JOHN WARREN HANKS, Ph.D.

B.S., Antioch College; M.S., University of Chicago.

Education. Major Professor: Harold J. Dillon, Professor.

Thesis: Esther Middlewood: Adult Educator and Ambassador for Mental Health.

DALE ELTON HEATH, Ph.D.

A.B., Greenville College; B.D., Asbury Theological Seminary.

History. Major Professor: Richard E. Sullivan, Professor.

Thesis: A Transcription and Description of Manuscript Vatican Greek 2061 (Gregory 048).

DENNIS RAY HELDMAN, Ph.D.

B.S., M.S., Ohio State University.

Agricultural Engineering. Major Professor: Carl W. Hall, Professor.

Thesis: Transport of a Bacterial Aerosol in Turbulent Mixing Regions.

JORDAN MILES INGRAM, Ph.D.

B.S., MacDonald College; M.S., McGill University.

Biochemistry. Major Professor: Willis A. Wood, Professor.

Thesis: The Mechanism of Action of 2-Keto-3-Deoxy-6-Phosphogluconate Alodlase of *Pseudomonas fluorescens*.

JOSEPH WELDON JENNINGS, JR., Ph.D.

B.S., Roosevelt University; M.A., Michigan State University.

Psychology. Major Professor: Maurice Ray Denny, Professor.

Thesis: Approach Learning and Extinction as a Function of Avoiding Predatory Attacks.

MAMDOUH YEHIA KAMEL, Ph.D.

B.S., M.S., Cairo University.

Biochemistry. Major Professor: Richard L. Anderson, Assistant Professor.

Thesis: New Reactions Instrumental in the Metabolism of Common Hexoses.

BETTY JUNE KEEM, Ph.D.

B.S., Cincinnati Conservatory; M.S., American Conservatory of Music.

Education. Major Professor: Harold J. Dillon, Professor.

Thesis: A Study of the Process and Outcomes of Related Arts Therapy with the Adult Schizophrenic Patient.

ROBERT KERTZER, Ph.D.

B.S., Brooklyn College; M.S., University of Illinois.

Education. Major Professor: Wayne D. Van Huss, Professor.

Thesis: Effects of Prolonged Training on the Resistance to Radiation — Induced Changes in Male Albino Rats.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES – Continued

RHYN H. KIM, Ph.D.

B.S.E., Seoul National University; M.S.M.E., Michigan State University. Mechanical Engineering. Major Professor: M. Z. V. Krzywoblocki, Professor.
Thesis: Transonic Similarity Rule in Magnetogasdynamics.

YOON C. KIM, Ph.D.

B.S., College of Pharmacy; M.S., University of North Carolina. Chemistry. Major Professor: Harold Hart, Professor.
Thesis: Synthesis of Polyfunctional Cyclopropanes.

PHILIP J. KLUKOFF, Ph.D.

M.A., Michigan State University; B.A., Allegheny College. English. Major Professor: Arthur Sherbo, Professor.
Thesis: Smollett and the *Critical Review*: Criticism of the Novel.

JOHN LOUIS KOMIVES, Ph.D.

B.S., University of Detroit; M.B.A., University of Detroit. Business Administration. Major Professor: Dalton E. McFarland, Professor.
Thesis: Some Characteristics of Selected Entrepreneurs.

DAVID ALAN KOPPLIN, Ph.D.

A.B., Lawrence College; M.A., Michigan State University. Psychology. Major Professor: Clarence L. Winder, Professor.
Thesis: Eliciting Responses in Client-Therapist Interaction: A Content Analysis of Initial Psychotherapeutic Interviews.

HENRY ANTON KUSKA, Ph.D.

B.S., Cornell College. Chemistry. Major Professor: Max T. Rogers, Research Professor.
Thesis: Electron Spin Resonance of Transition Metal Complexes.

JEAN YVES LORTIE, Ph.D.

B.E., L.V.G., University Laval, Quebec. Psychology. Major Professor: S. Howard Bartley, Professor.
Thesis: Visual Acuity as Affected by Adjacent Borders in a Target.

NORMAN RICHARD LUTTBEG, Ph.D.

B.S., Illinois Institute of Technology; M.A., Michigan State University. Political Science. Major Professor: Charles R. Adrian, Professor.
Thesis: Belief Conflict in the Community: Leader and Follower Differences in Policy Preferences.

ALVIN MAGID, Ph.D.

B.A., Hunter College; M.A., Michigan State University. Political Science. Major Professor: Wm. John Hanna, Professor.
Thesis: District Councillorship in an African Society: A Study in Role and Conflict Resolution.

CARY KAN-KEI MAK, Ph.D.

B.S., M.S., University of California. Civil Engineering. Major Professor: Robert K. Wen, Associate Professor.
Thesis: Non-Linear Behavior of Cylindrical Shells.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES – Continued

GERALD CHARLES MARTIN, Ed.D.

A.B., Ed.S., Western Michigan University; M.A., University of Michigan. Education. Major Professor: George R. Myers, Associate Professor. Thesis: A Study of the Adequacy of Professional Preparation for Teaching Disadvantaged Children as Perceived by Selected Elementary Teachers.

FRANCIS LEON McCONKEY, Ed.D.

B.S., Elizabethtown College; M.Ed., University of Alaska. Education. Major Professor: Charles F. Schuller, Professor. Thesis: A Communications Method of Non-Theatrical Film Production: A Description and a Demonstration.

WILLIAM L. MILLER, Ph.D.

B.S., M.S., University of Illinois. Agricultural Economics. Major Professor: Glenn L. Johnson, Professor. Thesis: An Economic Analysis of Oil Palm Fruit Processing in Eastern Nigeria.

KEVIN MICHAEL MITCHELL, Ph.D.

A.B., Manhattan College; M.A., Kent State University. Psychology. Major Professor: Bertram P. Karon, Associate Professor. Thesis: An Elaboration of a Study of the Schizophrenogenic Mother Concept by Means of the Thematic Apperception Test.

SHIRLEY T. MOORE, Ph.D.

B.S., College of Medical Evangelists; M.S., Oregon State College. Education. Major Professor: Harold Dillon, Professor. Thesis: A Historical Study of Trends in the Methodology and Contents of Adult Education Programs in Nutrition in the United States.

ROBERT FABER MORGAN, Ph.D.

B.A., M.A., Michigan State University. Psychology. Major Professor: Stanley C. Ratner, Professor. Thesis: Temporal Conditioning in Humans as a Function of Intertrial Intervals and Stimulus Intensity.

JOHN STEPHEN MURRAY, Ph.D.

B.S.A., M.S.A., University of Toronto. Communication Arts. Major Professor: Hideya Kumata, Professor. Thesis: Influence of Self Concepts, Significant Others and Interactive Patterns on the Publication Activity of Agricultural Scientists.

SHEIKH MOHAMMAD ABDUN NOOR, Ph.D.

B. Ag., East Pakistan Agricultural Institute; M. Ag., Dacca University. Education. Major Professor: Guy E. Timmons, Associate Professor. Thesis: Perceptions of the In-Service Education Needs for Secondary Teachers in East Pakistan.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES – Continued

LYNN CLARENCE OBERLIN, Ed.D.

B.S., M.A., Western Michigan University.

Education. Major Professor: George R. Myers, Associate Professor.

Thesis: Actual and Ideal Roles in Curriculum Planning as Perceived by Teachers and Administrators of Selected Schools.

SISTER MARY DEPAUL PALASZEK, Ph.D.

B.A., Mercy College; M.S., University of Detroit.

Chemistry. Major Professor: Robert D. Schuetz, Professor.

Thesis: An Investigation of the Biosynthesis of Polythienyls in *Tagetes erecta* L.

CHUNG YEN PENG, Ph.D.

B.S., Washington State University; M. S., Michigan State University.

Food Science. Major Professor: L. R. Dugan, Associate Professor.

Thesis: Some Studies on the Composition and Structure of Phospholipids in Chicken Muscle.

THOMAS EUGENE PERFITT, Ph.D.

B.S., M.S., Michigan State University.

Electrical Engineering. Major Professor: Herman E. Koenig, Professor.

Thesis: An Extension and Application of Optimal Control Theory.

RUSSELL JOHN POEL, Ph.D.

A.B., Calvin College.

Chemistry. Major Professor: Harold Hart, Professor.

Thesis: Carbonium Ion Studies I. Acetylation of Norbornene. II. Deamination of Dicyclopropylcarbinylamine.

THOMAS JOSEPH POWERS, Ed.D.

B.A., University of Illinois; M.A., Michigan State University.

Education. Major Professor: Harold J. Dillon, Professor.

Thesis: Benjamin Franklin and His Views and Opinions on Education.

LLOYD DELL REED, Ed.D.

B.S., M.S., Kansas State Teachers College.

Education. Major Professor: Max S. Smith, Professor.

Thesis: Jesse Parker Bogue: *Missionary for Two-year College*.

RICHARD JOSEPH RIORDAN, Ph.D.

B.S., M.A., University of Detroit; M.A., Michigan State University.

Education. Major Professor: Buford Stefflre, Professor.

Thesis: Feminine Sex Role Concepts Among High School Counselors and Students.

CLAYTON DURWARD ROA, Ph.D.

B.A., Lawrence College; C.T., Luther Theological Seminary; M.A., New York University.

Education. Major Professor: John E. Jordan, Associate Professor.

Thesis: An Investigation of Factors Leading to the Withdrawal of Waldorf Junior College Freshmen.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES – Continued

- GEORGE EDDIE ROSSMILLER, Ph.D. B.S., M.S., Montana State College.
Agricultural Economics. Major Professor: David H. Boyne, Associate Professor.
Thesis: Farm Real Estate Value Patterns in the United States, 1930-1962.
- ROBERT C. ROWE, Ed.D. B.A., Hillsdale College; M.S., Michigan State University.
Education. Major Professor: Harold J. Dillon, Professor.
Thesis: The Development of Television and its Potential Role in State University of New York.
- ALLAN L. SCHIFFER, Ph.D. B.B.A., City College of New York; M.S., City University of New York.
Psychology. Major Professor: Norman Abeles, Associate Professor.
Thesis: The Effectiveness of Group Play Therapy as Assessed by Specific Changes in a Child's Peer Relations.
- DAVID HENRY SCHULERT, Ph.D. B.S., M.A., Michigan State University.
Education. Major Professor: John M. Mason, Professor.
Thesis: A Study of a Laboratory Centered Ninth Grade Physical Science Course.
- ROBERT THOMAS SEDGWICK, Ph.D. B.S., Tri-State College; M.S., Michigan State University.
Mechanical Engineering. Major Professor: Terry Triffet, Professor.
Thesis: An Investigation of Acoustic Emission from Coated and Uncoated Ionic Crystals.
- FRED WILLIAM SMITH, Ph.D. B.A., M.A., Wheaton College.
Education. Major Professor: William W. Farquhar, Professor.
Thesis: A Cluster Analysis of An Objective Measure of Academic Motivation.
- CHARLES VINCENT SPANIOLO, Ph.D. B.A., M.A., Michigan State University.
History. Major Professor: Frederick D. Williams, Associate Professor.
Thesis: Charles Anderson Dana: His Early Life and Civil War Career.
- DONALD EDWARD STANBURY, Ph.D. B.S., Eastern Michigan University; M.A., University of Michigan.
Education. Major Professor: Harold J. Dillon, Professor.
Thesis: A Study of the Administration of Michigan Junior Colleges.
- JOHN D. STEVENS, Ph.D. B.S., Clarkson College of Technology.
Chemical Engineering. Major Professor: Carl M. Cooper, Professor.
Thesis: Development of Pseudocritical Mixture Rules Applicable to Thermodynamic Calculations in the Critical Region.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES – Continued

- RICHARD ANDREW STEVENSON, Ph.D. B.B.A., St. Bonaventure University; M.B.A., Syracuse University.
Business Administration. Major Professor: Adolph E. Grunewald, Professor.
Thesis: The Reacquisition of Corporate Stock.
- KENNETH HARVEY SUMMERER, Ed.D. B.A., Western Michigan University; M.A., University of Michigan.
Education. Major Professor: Herbert C. Rudman, Professor.
Thesis: A Study of Social Status and Selected Factors Represented by
Entering Freshmen and Students Completing Two Years of College Work
at Flint Community Junior College.
- LETA NELLE THOMASON, Ph.D. B.M., B.M.E., M.M., Texas Christian University.
Music. Major Professor: James Niblock, Professor.
Thesis: Structural Significance of the Motive in the String Quartets of
Béla Bartók.
- PATRICIA ANN ASIALA TRAVIS, Ph.D. B.S., Michigan State University.
Geology. Major Professor: Bennett T. Sandefur, Professor.
Thesis: An Analysis of Pleistocene Sediments in an Aquifer Recharge Area,
Kalamazoo, Michigan.
- DOUGLAS GRAHAM TROUT, Ph.D. B.A., DePauw University; B.D., McCormick Theological Seminary.
Education. Major Professor: Edward B. Blackman, Professor.
Thesis: The Changing Character of Ten United Presbyterian Church-
Related Colleges, 1914-1964.
- ELTON H. WALLACE, Ph.D. B.A., Pacific Union College; M.A., B.D., Andrews University.
Speech. Major Professor: David C. Ralph, Professor.
Thesis: Alfred E. Smith, the Religious Issue: Oklahoma City, September 20,
1928.
- GLEN ROBERT WARD, Ph.D. B.S., M.A., Utah State University.
Education. Major Professor: Norman Kagan, Associate Professor.
Thesis: Educating Counselors by Videotapes Using the Interpersonal Process
Recall Technique.
- JERRY B. WATERS, Ph.D. B.S., Kansas State College; M.S., Michigan State University.
Political Science. Major Professor: Robert H. Horwitz, Professor.
Thesis: The Conflicts in Agricultural Policy Making.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES – Continued

HENRY FREDERICK WILLIAMS, Ph.D.

B.S., University of Santa Clara; M.S., University of Notre Dame.
Electrical Engineering. Major Professor: Herman E. Koenig, Professor.
Thesis: Performance Characteristics of a System as a Function of Its Structure.

EDWARD J. WLADYKA, Ph.D.

B.S., Ontario Agricultural College; M.S., Michigan State University.
Food Science. Major Professor: Lawrence E. Dawson, Professor.
Thesis: Changes in the Amino Acid Composition of Chicken Meat and Drip During Frozen Storage.

CECIL JARVIS WOTRING, Ed.D.

B.A., Adrian College; M.A., University of Michigan.
Education. Major Professor: John H. Suehr, Assistant Professor.
Thesis: Teacher Morale and Evaluation of Teachers.

JACK FREDERICK ZOOK, Ph.D.

B.S., M.Ed., Wayne State University.
Education. Major Professor: Harold J. Dillon, Professor.
Thesis: The Adult Education Program of the UAW Local 412 Technical Training.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE EDUCATIONAL SPECIALIST DEGREE

ROBERT NEIL BRACKSTONE, Ed.S.	B.A., M.A., Michigan State University. Education. Major Professor: Clyde M. Campbell, Professor.
ROBERT LESTER COURTRIGHT, Ed.S.	A.B., Michigan State University; M.A., University of Michigan. Education. Major Professor: Herbert C. Rudman, Professor.
WILLIAM KENNETH FLOTTMANN, Ed.S.	B.S., M.A., Missouri University. Education. Major Professor: Norman Kagan, Associate Professor.
LOUISE E. KOHRING, Ed.S.	B.E., Chicago Teachers College; M.A., Michigan State University. Education. Major Professor: William J. Walsh, Associate Professor.
JOHN FRANCIS OLMSTEAD, Ed.S.	B.S., M.S., Michigan State University. Education. Major Professor: Richard L. Featherstone, Professor.
HARVEY RIBBENS, Ed.S.	B.A., M.A., Western Michigan University. Education. Major Professor: Stanley E. Hecker, Professor.
HERBERT ELMER RYAN, Ed.S.	A.B., Western Michigan University; M.Ed., M.A., Wayne State University. Education. Major Professor: John E. Jordan, Associate Professor.
ARNOLD SOLOMON, Ed.S.	B.S., M.E., Wayne State University. Education. Major Professor: Harold J. Dillon, Professor.
AUGUST VAN EERDEN, Ed.S.	A.B., Hope College; M.A., University of Michigan. Education. Major Professor: John J. McNicholas, Jr., Assistant Professor.
WALTON HARRIS VEURINK, Ed.S.	B.A., Wheaton College; M.A., Michigan State University. Education. Major Professor: John E. Jordan, Associate Professor.
LYLE BURTON WELCH, Ed.S.	B.S., M.S., Kansas State University. Education. Major Professor: Norman Kagan, Associate Professor.

SCHOOL FOR ADVANCED GRADUATE STUDIES

Graduated as of September 3, 1965

DOCTORAL DEGREES

MARTHA GILCHRIST ANDREWS, Ph.D.

B.A., M.A., Michigan State University.
Psychology. Major Professor: L. C. Rau, Associate Professor.
Thesis: Peer Imitation in Three and Four Year Old Children as a Function of Three Conditions of Task Familiarity.

KURT RAMON ANSCHEL, Ph.D.

A.B., Oberlin College; B.S., M.S., Michigan State University.
Agricultural Economics. Major Professor: G. L. Johnson, Professor.
Thesis: Economic Aspects of Peasant Rubber Production in Midwestern Nigeria.

JAMES ROBERT APPLETON, Ph.D.

B.A., Wheaton College; M.A., Michigan State University.
Education. Major Professor: W. F. Johnson, Professor.
Thesis: A Comparison of Freshmen Commuter Students with Resident Students on Selected Characteristics, Experiences, and Changes.

ALAN ARIAN, Ph.D.

A.B., Western Reserve University; M.A., Michigan State University.
Political Science. Major Professor: R. Scigliano, Professor.
Thesis: Ideological Change in Israel: A Study of Legislators, Civil Servants and University Students.

PATRICIA LOUISE AUSTIN, Ph.D.

B.A., University of Toronto; M.A., Teachers College, Columbia University.
Education. Major Professor: J. A. Wessel, Professor.
Thesis: A Conceptual Structure of Physical Education for the School Program.

E. MARTIN BASIC, Ph.D.

B.S., Illinois Institute of Technology; M.B.A., Western Michigan University.
Business Administration. Major Professor: C. McMillan, Jr., Professor.
Thesis: Development and Application of a Gamma-Based Inventory Management Theory.

CLEMENS SILVANUS BERNHARDSON, Ph.D.

B.A., University of Saskatchewan; M.A., University of Alberta.
Psychology. Major Professor: M. R. Denny, Professor.
Thesis: Stimulus Change Versus Stimulus Satiation and Forcing Versus Nonforcing in Relation to Alternation.

ALAN C. G. BEST, Ph.D.

B.A., University of Nebraska; M.A., Michigan State University.
Geography. Major Professor: H. J. de Blij, Associate Professor.
Thesis: The Swaziland Railway: A Study in Politico-Economic Geography.

B. NUREL BEYLERYAN, Ph.D.

B.S., M.S., Robert College (Turkey).
Civil Engineering. Major Professor: R. K. Wen, Associate Professor.
Thesis: Elastic-Plastic Response of Beams Including Effects of Shear and Rotatory Inertia.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

- NILAMBAR BISWAL, Ph.D. B.S., Punjab College (India); M.S., Michigan State University. Microbiology and Public Health. Major Professor: C. H. Cunningham, Professor. Thesis: The Hemagglutinin of Infectious Bronchitis Virus.
- ALICE BLITCH, Ph.D. B.A., University of Missouri; M.A., University of Tennessee. English. Major Professor: A. Williams, Professor. Thesis: Etymon and Image in the *Faerie Queene*.
- IRWIN MURRAY BRODO, Ph.D. B.S., City College of New York; M.S., Cornell University. Botany and Plant Pathology. Major Professor: H. A. Imshaug, Associate Professor. Thesis: The Lichens of Long Island, New York: A Vegetational and Floristic Analysis.
- DALE LEE BRUBAKER, Ph.D. B.A., Albion College; M.A., Michigan State University. Education. Major Professor: C. S. Brembeck, Professor. Thesis: A Comparative Cultures Approach to the Teaching of Vocational and Citizenship Education in Secondary Schools.
- DAVID RONALD BURKE, Ph.D. B.A., M.A., University of New Mexico. Philosophy. Major Professor: H. T. Walsh, Associate Professor. Thesis: An Examination of Jean-Paul Sartre's Conception of Freedom.
- WALTER A. BUSBY, Ed.D. B.S., Millersville State College; M.A., Michigan State University. Education. Major Professor: H. J. Dillon, Professor. Thesis: A Multivariate Analysis of the Relationship of Academic Motivation Aptitude, Socio-Economic Status, and Age to Persistence in an Adult Evening School.
- ROBERT BRUCE CARLSON, Ph.D. B.S., University of Minnesota; M.S., Michigan State University. Entomology. Major Professor: J. W. Butcher, Professor. Thesis: Aspects of Ecology and Population Dynamics of the Zimmerman Pine Moth, *Dioryctria zimmermani* (Grote).
- HOLLIE LEE COLLINS, Ph.D. B.S., Wisconsin State University; M.S., Michigan State University. Zoology. Major Professor: C. J. Braddock, Professor. Thesis: Nurturing Experiments with Regard to "Adult Imprinting" and Recognition of Young in the Cichlid Species *Tilapia sparrmani* and *Aequidens latifrons*.
- EUGENE EDWARD COMISKEY, Ph.D. B.S., Eastern Michigan University; M.B.A., Michigan State University. Business Administration. Major Professor: C. Lawrence, Professor. Thesis: A Study of Loan Cost Behavior in Consumer Finance Companies.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

ORVAL MAX CONNER, Ph.D.

B.S., M.Ed., University of Nebraska.

Education. Major Professor: C. A. Blackman, Associate Professor.

Thesis: The Effect of Neuro-Muscular Activity on Achievement and Intelligence of Kindergarten Children.

JAMES WILLIAM DIDIER, Ph.D.

B.A., Alma College; B.D., Th.M., Northern Baptist Theological Seminary.

Education. Major Professor: J. E. Jordan, Associate Professor.

Thesis: The Role of the Baptist Parish Minister in the State of Michigan.

JAMAL SHARIF DOUGRAMEJI, Ph.D.

B.S., Agricultural College of Baghdad (Iraq); M.S., Michigan State University.

Soil Science. Major Professor: A. E. Erickson, Professor.

Thesis: Soil-Water Relationships in Stratified Sands.

LESLIE CLINTON DREW, Ph.D.

B.S., M.S., Michigan State University.

Zoology. Major Professor: T. W. Porter, Professor.

Thesis: The Spider Fauna of Beaver Island, Its Composition, Ecological Distribution and Origin.

SURJIT SINGH DULIA, Ph.D.

B.A., M.A., Punjab University (India).

Comparative Literature. Major Professor: H. Weisinger, Professor.

Thesis: The White Man's Burden in Anglo-Indian Fiction.

JACK BARRY ELLIS, Ph.D.

B.S., University of Toronto; M.S., University of London.

Electrical Engineering. Major Professor: H. E. Koenig, Professor.

Thesis: Description and Analysis of Socio-Economic Systems by Physical Systems Techniques.

JOHN ERNEST FELTY, Ph.D.

B.S., M.S., University of Washington.

Education. Major Professor: John E. Jordan, Associate Professor.

Thesis: Attitudes Toward Physically Disabled In Costa Rica and Their Determinants: A Pilot Study.

JIM M. FENDRICH, Ph.D.

B.A., Seattle University; M.A., University of Notre Dame.

Sociology. Major Professor: S. F. Camilleri, Associate Professor.

Thesis: A Study of Whites' Attitudes, Commitment and Overt Behavior Toward Members of a Minority Group.

MARVIN J. FINE, Ph.D.

B.A., University of Western Ontario; M.A., University of Detroit.

Education. Major Professor: L. V. Shepard, Professor.

Thesis: The Security of Educable Mentally Retarded Boys in Relation to Special Class Placement.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

CAL J. FLEGAL, Ph.D.

B.S., M.S., Michigan State University.
Poultry Nutrition. Major Professor: P. J. Schaible, Professor.
Thesis: The Relative Biopotency of Fermentation Beta-Carotene, Crystalline Beta-Carotene and Vitamin A for Poultry.

ROGER WILLIAM FOX, Ph.D.

B.S., M.S., University of California.
Agricultural Economics. Major Professor: D. E. Hathaway, Professor.
Thesis: Some Possible Production and Trade Effects of the EEC's Common Agricultural Policy for Grains.

ALBERT HENRY GABRIEL, JR., Ph.D.

B.S., Central State College of Oklahoma; M.S., University of Oklahoma.
Education. Major Professor: H. H. Green, Professor.
Thesis: An Experiment Using Programed Instruction in Teaching One Area of Written Business Communications to College-Level Students and Middle-Management-Level Industrial Employees to Determine the Feasibility of Using Programmed Instruction with These Two Groups.

CASTELLE GARLAND GENTRY, Ed.D.

B.S., M.A.T., Michigan State University.
Education. Major Professor: C. A. Blackman, Associate Professor.
Thesis: Relative Effectiveness of Discovery and Expository Methods of Teaching Concepts Through the Single-Concept Film.

OTTO ERNEST GILBERT, Ph.D.

B.A., M.A., Louisiana State University.
Education. Major Professor: J. E. Jordan, Associate Professor.
Thesis: An Assessment of the Usefulness of the Wartagg Drawing Completion Test as a Cross-Cultural Non-Language Predictor of Academic Achievement Among Elementary School Children in Guatemala.

ALBERT RUDOLPH GILGEN, Ph.D.

A.B., Princeton University; M.A., Kent State University.
Psychology. Major Professor: P. Bakan, Professor.
Thesis: The Squares Test and Leveling-Sharpening: A Study of Instructional Set and Sex Differences.

JOHN THOMAS GOODMAN, Ph.D.

B.A., M.A., Michigan State University.
Psychology. Major Professor: B. L. Kell, Professor.
Thesis: Primary Process Thinking in Children.

ROBERT EARL GUSTAFSON, Ph.D.

B.A., Northern Michigan University; M.A., University of Michigan.
Education. Major Professor: W. A. Mann, Professor.
Thesis: A Study to Compare the Effectiveness of Instruction in the All State Good Driver Trainer and on the Multiple Car Off-Street Driving Range with the Multiple Car Off-Street Driving Range.

LEIGHTON ERNEST HARRELL, JR., Ph.D.

B.A., University of Maryland; B.D., The Divinity School of Duke University.
Education. Major Professor: J. E. Jordan, Associate Professor.
Thesis: A Pilot Study of Prediction of Marriage for Engaged Couples.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

JAMES ALBERT HARTLAGE, Ph.D.

B.S., Bellarmine College; M.S., Xavier University.
Chemistry. Major Professor: H. Hart, Professor.
Thesis: Synthesis and Reactions of Benzocyclobutene Derivatives.

FRED TRUBY HICKSON, Ph.D.

B.S., M.S., Indiana University.
Microbiology and Public Health. Major Professor: D. E. Schoenhard, Professor.
Thesis: Genetic Studies of an *Escherichia coli* With a Suppressed R Factor and Physical Studies of a Nucleoprotein from an *E. coli* Containing the Unsuppressed R Factor.

PAUL CAMERON HOLMAN, Ph.D.

B.S., M.S., Illinois State Normal University.
Education. Major Professor: H. J. Dillon, Professor.
Thesis: Community School Leaders Functioning as Personal Influence Leaders.

GEORGE ANTHONY HOUGH, 3RD, Ph.D.

B.A., University of Wisconsin; M.A., Michigan State University.
English. W. W. Heist, Professor.
Thesis: Structures of Modification in Contemporary American English.

LOREN HENRY HOUTMAN, Ed.D.

B.A., M.A., Michigan State University.
Education. Major Professor: C. H. Gross, Professor.
Thesis: Response of Detroit Public Schools to Immigrant Groups.

EUGENE LEE HUDDLESTON, Ph.D.

A.B., Marshall University; M.A., Ohio University.
English. Major Professor: R. B. Nye, Professor.
Thesis: Topographical Poetry in America, 1783-1812.

ELAINE HICKMAN HURST, Ph.D.

B.S., M.A., Western Michigan University.
Botany and Plant Pathology. Major Professor: G. W. Prescott, Professor.
Thesis: Investigation of Extrametabolites Produced by Algae in Culture.

FRANCIS IMBRAGULIO, Ph.D.

B.M., University of Southern Mississippi; M.M., Michigan State University.
Music. Major Professor: P. Luboshutz, Professor.
Thesis: Suite for Piano and Chamber Orchestra.

J. RAY INGALLS, Ph.D.

B.S., M.S., University of Vermont.
Dairy. Major Professor: J. W. Thomas, Professor.
Thesis: Nutritive Value of Several Forage Species as Measured by In Vitro and In Vivo Methods.

DOUGLAS EDGAR INKSTER, Ed.D.

B.B.A., University of Miami; M.A., Michigan State University.
Education. Major Professor: J. E. Jordan, Associate Professor.
Thesis: A Follow-up Study of Hemiplegic Patients Discharged from the Rehabilitation Institute of Chicago.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

THEODORE MICHAEL JACKANICZ, Ph.D.

B.S., Northwestern University.
Biochemistry. Major Professor: R. U. Byerrum, Professor.
Thesis: The Incorporation of Aspartate and Malate into the Pyridine Ring of Nicotine.

JO ANNE JOHNSON, Ph.D.

B.A., Denison University; M.A., Indiana University.
Education. Major Professor: W. F. Johnson, Professor.
Thesis: Residence Halls Goals and Objectives: Perceptions of Students and Staff.

JOHN L. JOHNSON, Ed.D.

B.S., M.Ed., Wayne State University.
Education. Major Professor: W. V. Hicks, Professor.
Thesis: Classroom Behavior Styles Reported by Teachers of Emotionally Disturbed Children.

THOMAS J. KEWLEY, Ph.D.

B.S., University of Notre Dame; M.B.A., DePaul University.
Business Administration. Major Professor: R. I. Robinson, Professor.
Thesis: Comparative Investment Policy and Performances of National Unions' General and Special Funds.

TREVA BENNINGTON KIRK, Ed.D.

B.A., Hillsdale College; M.A., University of Michigan.
Education. Major Professor: F. J. Vescolani, Professor.
Thesis: Behaviors of Teachers New to a Building in Relation to the Climate of the School and the Dogmatism of the Teachers.

KARL LEOPOLD KRUMEL, Ph.D.

B.S., Grinnell College; M.S., DePauw University.
Chemistry. Major Professor: G. J. Karabatsos, Associate Professor.
Thesis: Part I. The Mechanism of the Liquid Phase Pyrolysis of Diaklyl Oxalates. Part II. Nuclear Magnetic Resonance Studies of N-Methylphenylhydrazones.

DAVID ROBERT LAMB, Ph.D.

B.A., State College of Iowa; M.A., Michigan State University.
Education. Major Professor: W. D. Van Huss, Professor.
Thesis: The Role of Hepatic Glucose-6-Phosphatase in Adaptation to Exercise and Electrical Stress in Adult Male Albino Rats.

MILTON ERVING LARSON, Ed.D.

B.B.A., M.A., University of Minnesota.
Education. Major Professor: L. Borosage, Professor.
Thesis: A Study of the Characteristics of Students, Teachers, and the Curriculum of Industrial-Technical Education in the Public Community Junior Colleges of Michigan.

WILLIAM BRADSHAW LASHBROOK, Ph.D.

B.S., M.A., University of Kansas.
Speech. Major Professor: D. C. Ralph, Professor.
Thesis: A Descriptive-Analytical Study of the Basic Public Speaking Course at Michigan State University.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

JAMES JOHN LEACH, Ph.D.

A.B., Heidelberg College; M.A., Trinity University.
Philosophy. Major Professor: H. T. Walsh, Associate Professor.
Thesis: Historical Explanation and Value-Neutrality.

BRUCE THOMAS LECKART, Ph.D.

B.A., M.A., Michigan State University.
Psychology. Major Professor: P. Bakan, Professor.
Thesis: Looking Time: The Effects of Stimulus Complexity, Stimulus Familiarity, and the Familiarization-Exploration Interval.

FENG-YAO LEE, Ph.D.

B.A., National Taiwan University; M.S., Michigan State University.
Economics. Major Professor: T. R. Saving, Associate Professor.
Thesis: An Econometric Analysis of the Demand for Basic Living Materials in Japan.

MILBURN LEWIS LEROHL, Ph.D.

B.S., University of Alberta; M.S.A., University of British Columbia.
Agricultural Economics. Major Professor: G. L. Johnson, Professor.
Thesis: Expected Prices for U.S. Agricultural Commodities, 1917-62.

RONALD JOHN LEWIS, Ph.D.

B.A., M.A., Wayne State University.
Business Administration. Major Professor: G. W. Jones, Professor.
Thesis: Accounting Consequences of Physical Distribution System Changes.

WALTER FRED LOEB, Ph.D.

D.V.M., University of Pennsylvania; M.S., Ohio State University.
Pathology. Major Professor: C. C. Morrill, Professor.
Thesis: Studies of Four Enzyme Systems in Canine Neoplasia.

DAVID CAMERON MACLEAN, Ph.D.

B.S., University of Connecticut; M.S., Michigan State University.
Horticulture. Major Professor: D. R. Dilley, Associate Professor.
Thesis: The Interacting Effects of 3-Indoleacetic Acid, Gibberellic Acid and 6-Benzyladenine on Respiration, Growth and Nitrogen Assimilation in Excised Embryos of Pea (*Pisum sativum*, L.)

FLORA ZAIBUN MAJID, Ph.D.

B.S., M.S., University of Dacca.
Botany and Plant Pathology. Major Professor: E. S. Beneke, Professor.
Thesis: Carbohydrate Utilization and its Relation to the Production of Antitumor Substance in *Suillus luteus*.

MICHAEL GEORGE MAKSUD, Ph.D.

B.S., University of Illinois; M.A., Syracuse University.
Education. Major Professor: W. D. Van Huss, Professor.
Thesis: The Effects of Electrical Stress and Physical Activity on Blood Cholesterol Levels, Whole Blood Coagulation Time, and Several Organ Weights of Adult Male Rats.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES – Continued

- GEORGE PHILLIP MANSOUR, Ph.D. B.A., Marshall University; M.A., Michigan State University.
Spanish Language and Literature. Major Professor: J. A. Ramsey, Professor.
Thesis: The *Don Juan Tenorio, Zarzuela*, of Zorrilla: The Progression and Modulation of a Theme.
- MELVIN JUSTINIAN MASON, Ed.D. B.A., Cuttington College; M.A., Yale University.
Education. Major Professor: T. L. Stearns, Professor.
Thesis: The Role of Cuttington College in the Development of Liberia.
- MICHAEL R. C. MASSIE, Ph.D. B.S., Michigan Technological University; M.S., University of New Hampshire.
Forestry. Major Professor: L. M. James, Professor.
Thesis: Marketing Timber Products in Selected Areas of the North Central Region.
- JAMES PETER MATHIE, Ph.D. B.A., Marquette University; M.A., Michigan State University.
Psychology. Major Professor: M. R. Denny, Professor.
Thesis: Verbal Conditioning by Avoidance Learning, An Experimental Analogue to a Particular Interpersonal Situation.
- JARY S. MAYES, Ph.D. B.S., Oklahoma State University; M.S., Michigan State University.
Biochemistry. Major Professor: R. G. Hansen, Professor.
Thesis: Inborn Errors of Metabolism. I. The Presence of an Inactive Enzyme and *in utero* Toxicity in Galactosemia. II. Urinary Mucopolysaccharides in Patients with Hurler's Syndrome, Their Families and Normal Man.
- HELEN LOUISE McCONNELL, Ph.D. B.S., M.A., New York State University Teachers College.
Education. Major Professor: M. W. Vossbrink, Associate Professor.
Thesis: A Critical Analysis of the Implications of Selected Philosophies of Education for Home Economics Education.
- S. CLARK McPHAIL, Ph.D. A.B., Pasadena College; M.A., University of Oklahoma.
Sociology. Major Professor: R. L. Stewart, Professor.
Thesis: Self Identification Within a Specific Context of Experience and Behavior.
- JOHN J. MEEDER, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: C. H. Gross, Professor.
Thesis: The Treatment, in American History High School Textbooks, of the Management and Control of Industry and Labor as Consequences of Industrial Change.
- KO-WANG MEI, Ph.D. B.A., M.A., Washington State University.
Political Science. Major Professor: C. R. Adrian, Professor.
Thesis: The Theory and Practice of Modern Guerrilla Warfare.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

JEAN MÉRAL, Ph.D.

Baccalauréat, University of Bordeaux; Licence et Lettres, University of Toulouse.

French Language and Literature. Major Professor: L. P. Cormier, Associate Professor.

Thesis: L'utopie Dans la Littérature Française du Six-Sèptieme Siècle.

DOUGLAS TAYLOR MILLER, Ph.D.

B.A., Colby College; M.A., Columbia University.

History. Major Professor: G. M. Ostrander, Associate Professor.

Thesis: The Rise of Aristocracy in the State of New York 1830-1860.

BRIJ MOHAN MITRUKA, Ph.D.

B.S., Rajashan College; M.S., Michigan State University.

Microbiology and Public Health. Major Professor: R. N. Costilow, Professor.

Thesis: Arginine, Citrulline, and Ornithine Catabolism by *Clostridium botulinum* Type 62-A.

MAURICE GENE MOORE, Ph.D.

B.S., M.S., Indiana State University.

Education. Major Professor: H. J. Dillon, Professor.

Thesis: An Analysis and Evaluation of Planetarium Programming as it Relates to the Science Education of Adults in the Community.

MICHAEL EDWARD MYSEWSKI, Ph.D.

B.S., Wisconsin State University; M.S., Michigan State University.

Zoology. Major Professor: A. F. Yanders, Associate Professor.

Thesis: Differential Survival Among Sperm Populations from Heterozygous Male *Drosophila melanogaster*.

KEYVAN NAZERIAN, Ph.D.

D.V.M., Tehran University; M.S., Michigan State University.

Microbiology and Public Health. Major Professor: C. H. Cunningham, Professor.

Thesis: Electron Microscopic Studies of Infectious Bronchitis Virus.

LAURNIE WAYNE NELSON, Ph.D.

D.V.M., Iowa State University; M.S., Michigan State University.

Pathology. Major Professor: C. K. Whitehair, Professor.

Thesis: Nitrite Toxicosis and the Gastric Ulcer Complex in Swine. Part I. Nitrite Toxicoses. Part II. Gastric Ulcer Complex.

ROBERT NICHOLAS NICOLICH, Ph.D.

A.B., Fordham University.

French Language and Literature. Major Professor: T. A. McGuire, Associate Professor.

Thesis: Mme de Sévigné and the Problem of Reality and Appearances.

KENNETH ARTHUR PERKINS, Ph.D.

B.S., University of Wisconsin; M.A., Michigan State University.

Psychology. Major Professor: J. Reyher, Associate Professor.

Thesis: Repression, Psychopathology, and Drive Representation: An Experimental Hypnotic Investigation of the Management of Impulse Inhibition.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES – Continued

- LEONARD WARREN PHILLIPS, Ed.D. B.S., University of California; M.A., Humboldt State College.
Education. Major Professor: W. B. Brookover, Professor.
Thesis: A Study of the Relations Between Tentative Occupational Choice-Vocational Interests Congruency and Selected Variables.
- DARREL HARVEY PLAUNT, Ph.D. B.S., McGill University; M.S., University of Kentucky.
Agricultural Economics. Major Professor: G. L. Johnson, Professor.
Thesis: Methodology for Evaluating Economic Theories.
- ALFRED JOHN REYNOLDS, Ph.D. B.A., Calvin College; M.A., University of Michigan.
Education. Major Professor: J. L. Saupe, Professor.
Thesis: An Empirical Comparison of Three Distributions of Item Difficulty with Respect to the Reliability and Validity of the Resulting Measures.
- RONALD ROY RHOADE, Ph.D. B.S., M.S., Purdue University.
Agricultural Economics. Major Professor: J. R. Brake, Associate Professor.
Thesis: Adjusting Farm Account Data for Representative Research Use.
- THEODORE ALLEN ROTTMAN, Ph.D. A.B., Calvin College; M.A., Michigan State University.
Sociology. Major Professor: J. B. McKee, Professor.
Thesis: Metropolitan Community Sub-Systems as Reference Groups in a Suburban Annexation Ballot Decision.
- CARLOSTADIO SANCHEZ, Ph.D. B.S., Palmira Agricultural College (Colombia); M.S., North Carolina State College.
Soil Science. Major Professor: L. S. Robertson, Professor.
Thesis: Evaluation of Certain Chemical Transformations of Soluble Fertilizer Phosphorus Applied to Three Michigan Soils.
- ALTON BERNARD SHERIDAN, Ed.D. A.B., Calvin College; M.A., University of Michigan.
Education. Major Professor: D. J. Leu, Professor.
Thesis: An Analysis of Differences in Backgrounds, Activities, and Attitudes Among Full Time, Part Time, and Extension Students in Educational Administration.
- KUDRAT SOEMINTAPOERA, Ph.D. B.S., Institute Teknologi; M.S., Michigan State University.
Electrical Engineering. Major Professor: H. G. Hedges, Associate Professor.
Thesis: The Image Parameter Method for the Design of the Frequency Unsymmetrical Band-Pass Ladder Filters Using Special Types of Elementary Sections.
- JOSEPH SPIELBERG, Ph.D. B.A., M.A., University of Texas.
Anthropology. Major Professor: B. Gallin, Associate Professor.
Thesis: SAN MIGUEL MILPAS ALTAS: An Ethnographic Analysis of Interpersonal Relations in a Peasant Ladino Community of Guatemala.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

RALPH ROHRER SWARR, Ph.D.

A.B., Franklin and Marshall College; M.A., Michigan State University.
Psychology. Major Professor: B. L. Kell, Professor.
Thesis: An Exploratory Study of Masculinity and the Attribution of Dominance and Love to Parents.

SALAH A. TAHOUN, Ph.D.

B.S., Cairo University; M.S., Utah State University.
Soil Science. Major Professor: M. M. Mortland, Professor.
Thesis: Complexes of Montmorillonite with Primary, Secondary, and Tertiary Amides.

WARREN DAVID TENHOUTEN, Ph.D.

B.A., M.A., Michigan State University.
Sociology. Major Professor: D. Gottlieb, Associate Professor.
Thesis: Socialization, Race, and the American High School.

DAVID GLEN TOPEL, Ph.D.

B.S., University of Wisconsin; M.S., Kansas State University.
Food Science. Major Professor: R. A. Merkel, Associate Professor.
Thesis: Role of the Adrenal Cortex and Thyroid Gland Function upon Some Physical and Chemical Properties of Porcine Muscle.

ROBERT WAYNE TYSL, Ph.D.

B.A., Westminster College; M.A., University of Michigan.
Speech. Major Professor: A. Weld, Jr., Associate Professor.
Thesis: Continuity and Evolution in a Public Symbol: An Investigation into the Creation and Communication of the James Dean Image in Mid-Century America.

HOWARD JAY VAN TILL, Ph.D.

B.S., Calvin College.
Physics & Astronomy. Major Professor: J. A. Arnold, Associate Professor.
Thesis: The Magnetic Susceptibility of Some Thiourea-Coordinated Transition Metal Halides in the Paramagnetic and Antiferromagnetic States.

RICHARD WILLIS VAUGHAN, Ph.D.

B.S., Hope College; M.S., Michigan State University.
Microbiology & Public Health. Major Professor: D. E. Schoenhard, Professor.
Thesis: Studies on the Galactose Loci of *Salmonella pullorum*.

JAMES WALTER VILLAR, Ph.D.

B.S., M.S., Michigan State University.
Geology. Major Professor: J. W. Trow, Professor.
Thesis: Metamorphic Petrology of the Animikie Series in the Republic Trough Area, Marquette County, Michigan.

CHARLES WESLEY VLCEK, Ed.D.

B.S., M.S., Stout State College.
Education. Major Professor: C. F. Schuller, Professor.
Thesis: Assessing the Effect and Transfer Value of a Classroom Simulator Technique.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES – Continued

NICHOLAS GENE VREDEVELD, Ph.D.

B.A., Calvin College; M.S., Michigan State University.
Microbiology & Public Health. Major Professor: R. P. Scheffer, Professor.
Thesis: Selective Action of Pentachloronitrobenzene on Soil Fungi.

CLIFFORD MAJOR WETMORE, Ph.D.

B.S., M.S., Michigan State University.
Botany & Plant Pathology. Major Professor: H. A. Imshaug, Associate Professor.
Thesis: The Lichen Flora of the Black Hills of South Dakota and Wyoming.

FRED BRITTEN WIEGMAN, Ph.D.

B.S., Eastern Michigan University; M.S., University of Michigan.
Education. Major Professor: H. J. Dillon, Professor.
Thesis: An Analysis and Appraisal of the Adjustment of Selected Graduates of the Michigan Training Unit at Ionia, Michigan.

RALEIGH JAMES WILKINSON, Ph.D.

B.S., M.S., Southern Illinois University.
Food Science. Major Professor: L. E. Dawson, Professor.
Thesis: Relationships between Cooked Temperature and Tenderness or Juiciness of Boneless Turkey Rolls as Measured by Physical, Sensory and Chemical Methods.

LEON WARREN WOODFIELD, D.B.A.

B.S., M.B.A., University of Utah.
Business Administration. Major Professor: G. W. Jones, Professor.
Thesis: An Experiment in Application of Monte Carlo Method for Simulating Capital Budgeting Decisions Under Uncertainty.

ARVIN LEROY WORKMAN, Ph.D.

B.S., M.S., Indiana State University.
Speech. Major Professor: G. L. Thomas, Professor.
Thesis: A Rhetorical Analysis of Selected Speeches of James Russell Lowell.

SCHOOL FOR ADVANCED GRADUATE STUDIES

Graduated as of September 3, 1965

DIPLOMA FOR ADVANCED GRADUATE STUDIES

HAROLD KENETH BRADSHER	B.A., M.A., Michigan State University. Education. Major Professor: N. Kagan, Associate Professor.
KATHLEEN SMITH FREEMAN	B.A., M.A., Michigan State University. Education. Major Professor: B. H. Van Roekel, Professor.
RUTHERFORD MARTIN HAWKINS	B.A., Xavier University; M.A., New York University. Education. Major Professor: N. Kagan, Associate Professor.
EDYTHE ANDERSON HAYNES	B.S., M.A., Northern Michigan University. Education. Major Professor: C. M. Campbell, Professor.
CHARLES EDWARD HAZEL	B.S., M.A., Michigan State University. Education. Major Professor: R. L. Featherstone, Professor.
WENDELL PRICE HILL	B.A., M.A., Western Michigan University. Education. Major Professor: C. A. Blackman, Associate Professor.
JOHN VICTOR KOCZMAN	B.A., M.A., Eastern Michigan University. Education. Major Professor: J. H. Suehr, Assistant Professor.
JOHN JOSEPH KOTLARK, JR.	B.S., Central Michigan University; M.A., Michigan State University. Education. Major Professor: C. M. Campbell, Professor.
MAYNARD GLEN LEWIS	B.A., M.Ed., Idaho State University. Education. Major Professor: Norman I. Kagan, Associate Professor
GERALD EDWARD MCADAMS	B.S., Michigan State University; M.Ed., Eastern Michigan University. Education. Major Professor: C. A. Blackman, Associate Professor.
JOHN C. MEYER	B.S., M.A., Central Michigan University. Education. Major Professor: S. E. Hecker, Professor.
WARREN GILMAN MOCK	B.S., M.A., West Virginia University. Education. Major Professor: S. E. Hecker, Professor.
FLORENCE ANN SCHABEL NEARPASS	B.S., M.A., Michigan State University. Education. Major Professor: C. A. Blackman, Associate Professor.

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DIPLOMA FOR ADVANCED GRADUATE STUDIES — Continued

LEVELL REED

B.S., M.S., Southern Illinois University.
Education. Major Professor: T. L. Stearns, Professor.

JOHN BURTON VERMILYA

B.S., Defiance College; M.A., Western Michigan University.
Education. Major Professor: J. J. McNicholas, Jr., Assistant Professor.

DONALD CARL WATERSTREET

B.S., M.S., Stout State College.
Education. Major Professor: William W. Farquhar, Professor.

GENEVIEVE MARIE WILKOWSKI

B.A., M.A., University of Michigan.
Education. Major Professor: C. A. Blackman, Associate Professor.

CARROLL JOHN WOLFF

B.S., Ferris State College; M.A., Michigan State University.
Education. Major Professor: W. H. Roe, Professor.

LESTER BARRON YANCY

B.S., Southern University; M.A., Michigan State University.
Education. Major Professor: J. E. Heald, Associate Professor.

COLLEGE OF AGRICULTURE

THOMAS K. COWDEN, DEAN

DEGREE OF MASTER OF SCIENCE

Agricultural Economics

Neville John Gambier
Doherty
Lynn J. Maish

Animal Husbandry

Joseph Akonji Atekwana
Patrick Donald Vitlo

Biochemistry

Joseph B. Fashakin
Morris Dexter Seymour
Richards

Food Science

Richard Jay Embs
Leo Wilhelm Quirk
Edward Daniel Schmidt

Forest Products

James Louis Bowyer
Richard James Frank
Duke Yung Yoon

Forestry

John Frederick Marzec
Arthur William Reese

Resource Development

Jack Anderson Donnan
Vernon Ross Murray
Marie Eva Shepard
Oliver Ray Stanton III
Wayne Harris Verspoor

DEGREE RECOMMENDED
JOINTLY WITH THE COLLEGE
OF ENGINEERING

Agricultural Engineering

Fred Vernon Nummerger
Frederick Warner Wheaton

DEGREE OF BACHELOR OF SCIENCE

Agricultural Economics

Simon Albert Scholtens
Lawrence Lee Treadwell

Agricultural Mechanization

Donald Frank Orban

Animal Husbandry

Marvin G. Appleton
Lewis Aaron Barr
Lawrence Allan Carncross
A. Conrad Gliniecki
Allen Floyd Parr
James Bernard Rybinski

Building Construction

Lawrence M. Dragich
Carman Arthur Washburn

Crop Science

Samuel James Woods

Dairy

Daniel Allen Berry
Ralph Albertus Hoxie II
Raza Ali Khan
William Howard Salisbury
Dale Edward Sheltrown

Fisheries & Wildlife

Gaylord John Bober
H* Eugene Howard Buck
Roy Alan Castle
John Eugene Fletcher
David Bruce Harkness
Thomas Vincent Havard
Larry Leroy Langdon
Ronald Paul Papsdorf
Michael Francis Petitpren
Ronald Bair Willson
Kenneth James Wright

Floriculture

Leonard Dean Fisher
Malcolm Graham

Food Science

Paul Douglas Halladay
Arthur Lynn Miller

Forestry

John Edgar Baumgras
Richard Earl Denney
Bruce Ray Earl
Arikpo Egede Ettah
Hooshang Farahbakhsh
James Edwin Frederick
*Dennis J. Gilleran
Robert Herman Hass

John Dennis Jurczak
*Douglas Watson MacCleery
Clifton Clarence Patton
W. William Rudolph
Lincoln Peter Ruhinen
Erwin Topper
James Matheson White

Horticultural Management

*James Lee Alsip
John Frederick Schwartz

Packaging

William David Hanson
R. Dale Kennedy
Christopher John Kepus
Burton Alec Lee McGregor
Thomas Patrick McKay, Jr.
Edwin James McLean
H* Drew Hiemenz Moore
Verner H. Nelson
Douglas Henry Novakoski
H* David Pegaz
George Cornell Ray, III
Jerry L. Rossow
David R. Spille
John Edward VanBrunt
Wayne S. Whitaker
*Richard Fred Witte

H Honors College
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COLLEGE OF AGRICULTURE

DEGREE OF
BACHELOR
OF SCIENCE

Park Management

Dorian James Dobias
Albert Irving Johnson
William Daniel Necker
Clarence Randolph Peyton
Roy Matthew Rautiola
Terry Michael Sheehan

Poultry Science

Norman Jay Gruizenga

Wood Processing and Technology

Ronald Charles Prucha

DEGREE RECOMMENDED
JOINTLY WITH THE COLLEGE
OF EDUCATION

Agricultural Education

Bert Jay Cook

H Honors College
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°° With High Honor

COLLEGE OF ENGINEERING

JOHN D. RYDER, DEAN

DEGREE OF MASTER OF SCIENCE	<i>Chemical Engineering</i> Timothy Gordon Greening Terence Kenneth Kett	<i>Electrical Engineering</i> Arvindkumar Chimanlal Desai Richard Alan Florence Tito Cúneo Inope Larry R. Lafler Gregory Rodman Michalkow George Stuart Pearce Larry E. Rittenhouse Merton L. Vincent Mervin C. Vincent	<i>Mechanical Engineering</i> Vinod Nyalchand Dagly Surinder Kapur Wayne Kenneth Shaffer
	<i>Civil Engineering</i> Edward A. Kruppa Frederick Loceff Bachubhai Maganbhai Patel		<i>Sanitary Engineering</i> Harry Lincoln Smith
DEGREE OF BACHELOR OF SCIENCE	<i>Civil Engineering</i> Gary Arnold Culver	<i>Mechanical Engineering</i> Philip Joseph Akers *Bruce Edward Campbell Martin Joseph Koss *Thomas Charles Kreger *Leo James LaFrance Richard Arnold Musolf H*Gerald James VanFossen, Jr.	James Brown Carlton *Daniel Marvin Noble
	<i>Electrical Engineering</i> *Orville Charles Barr H**Michael Lee Darooge Alan Gerard Robert Hutcheson Raymond William Maltby John Mitchell Russ Thomas Wayne Ruster	<i>Metallurgical Engineering</i> Francis Thomas Bromley	DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF AGRICULTURE <i>Agricultural Engineering</i> Herman Allen Cease, Jr. Eudell G. Vis George Harvey Zeilinger

H Honors College
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** With High Honor

COLLEGE OF HOME ECONOMICS

JEANNETTE A. LEE, DEAN

DEGREE OF
MASTER
OF ARTS

Child Development
Bernadette McBride Randall
*Education for Home and
Family Living*
Margaret Jean Slingerlend

Home Management
Mary Janice Hogan
Alice Mills Morrow

Textiles and Clothing
Carol Joanne Heynen
Darlene Miriam VanTiem

DEGREE OF
MASTER
OF SCIENCE

Home Economics Extension
Catherine Barton Love

Institution Administration
Mary Blanche Barrett
Francisca Quiaoit Martinez

DEGREE OF
BACHELOR
OF SCIENCE

General Clothing and Textiles
Anne Stillwell Frost
Linda Louise Lilliom Salati

General Home Economics
Susan Anne Burgdorfer
Jean Elizabeth McDermid

*Home Economics with
Communication Arts*

*Deanna Lee Caul

Interior Design

Bonnie Maas Morrison
Nancy Nell Normington
Jo Ellyn Radebaugh
Helen Elizabeth Valentine

*Retailing of Textiles and
Clothing*

Dorothy Deanna Arnette
Sandra Joy Titus Nelson
Jacquelyn Sheila Pavella
JoAnn Marie Reducha
H** Jeanne Louise Robar
Karan Darleen Siuru

DEGREE RECOMMENDED
JOINTLY WITH THE COLLEGE
OF EDUCATION

*Child Development and
Teaching*

H** Karen Smith Copeland
Verna Joan Held

Jill K. Spurway
Donna Jean Waskul

Home Economics Teaching

Carolyn Margaret Cronin
Beverly Kay Ferris
Bonnie Rose Friend
Julia Anne Harty
Pamela Monette Lascko
Carolyn Bowers McLachlan
Rachel Rebecca Roberts
**Sara Haddon Robinson
Sandra Ann Swan

H Honors College
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COLLEGE OF VETERINARY MEDICINE

WILLIS W. ARMISTEAD, DEAN

DEGREE OF
MASTER
OF SCIENCE

Pathology

William James Cyril Donnelly
Ernest Eugene McConnel
Robert Louis Michel
Horst Hermann Schimmelpfennig

DEGREE OF
BACHELOR
OF SCIENCE

Medical Technology

Marilyn Burns
Carol Marie Hansen

Veterinary Medicine

Roger Lee DeHaan
Trevor Delevante Dewdney
**William P. Robinson, Jr.

H Honors College
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** With High Honor

COLLEGE OF BUSINESS

ALFRED L. SEEYLE, DEAN

DEGREE OF

Economics

MASTER

Michael Richard Edgmand
Robert Goodman
Thomas Casimer Marcin
Mir Nezam Sadjadi

OF ARTS

DEGREE OF

Graduate School of Business Administration

MASTER

Sedat Akalin
Russell Leigh Arthur
Neil F. Barnhart
William Allen Beers, III
John Robert Bender
Gordan James Bingham
Winfield Andrew Boerckel
Barry Forrest Bone
Peter Phillip Botsakis
James Roy Brier
John Terry Burgon
Roy Norman Carlson
Don James Carter, Jr.
Elwyn Scott Carter
Roger Chutter
Dennis Henry Collette

OF BUSINESS

ADMINISTRATION

Ivan Russell Cottrell
David H. Crumb
William John Cunningham
C. Raymond Curtis
John William Ennest
Arthur William Eulitz
Richard Wellington Holmes
James Samuel Jackson
Ravendra Kumar Jain
Stephen William Klausner
Allen Harvey Klein
Paul Warren Larson
Edwin Robert Laueremann
David Allan MacFarlane
William E. Malpass, Jr.
John David Marion
John William McCabe, III
Phillip Howard McDonald

William Emiry McLeod
James Manley Moss
William Francis Naughton, Jr.
John Peter O'Gorman
Alfred Oppenheimer
Raymond Laurence Pearson
Robert Keith Peters
Robert Charles Porter
Kenneth M. Reichle, Jr.
David Lee Rendel
Robert Allan Robison
Jeffry Lynn Rogers
Arlindo Braga Senna
Huron Smith, Jr.
George Edgar Stanton
William Arthur VerHulst
Jerry David Voorheis
George William Walker
Thomas Robert Webb

DEGREE OF

Accounting

BACHELOR

OF ARTS

*John Trent Becker
Gregory Allen Blair
Kenneth Eugene Bristow
Jimmie Dale Cook
Donald John Dickinson
Floyd W. Gilbert, Jr.
H* David Max Hagen
Frederick William
Hartker, Jr.
Gene Frederick Lambert
Robert Samuel McLellan, IV
Walter Lee Morrill
Richard James Olson
David Corwin Palmer
Richard Gerald Pearce
H* Mickey Louise Perez
Roger Maynard Pierce
H* Russell Eldon Pigue
Michael Stephen Romano
Richard Arnold Schrage

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William Rollin Sherman
David Wm. Singer
Michael Lee Taggart
Rodney Kurtz Troyer
Gary L. Tyler
Jerome Vincent Wittkoski
*Gary Allen Zell

Economics

Richard Milton Britton
Laurence Bradford Campbell
Brian August Geissler, II
Peter Ho
James Edward Horsfield
Lawrence Komla Venyah

Executive Secretarial Administration

Joyce Ann Christensen
Norman John Duncan, Jr.

Financial Administration

Andrew Keith Drazin
Sandra Carole McSwaney
*Paul R. Nelson, II

Food Marketing

Paul Douglas Merrill

General Business Administration

Bruce Baker
Patrick William Benedict
Dorsey Eugene Blackorby
Eugene Keith Bond
James Michael Burns
James Franklin Chandler
Anthony James Copenhagen
Daniel LaVerne Doecker

COLLEGE OF BUSINESS

DEGREE OF BACHELOR OF ARTS

Steven Edwin Donley
Frederick Willard Engle
Daniel Roland Floberg
Richard Hargreaves
Cecil Clay Holmes
Walter Robert Kalberg
Peter August Klain
Larry Paul Lind
Robert Frederick Meyer
Paul Henry Reinhardt
John Michael Rusnik
Joseph George Singer
Thomas Kent Stebbins
Donald Harry Tibbits
John Francis Tinnick
John William Tysse
Richard Harold Welhusen
Edward Davis Wells, Jr.

General Marketing

Dale Kenneth Bufka
Ronald Arthur Cavallo
David Gordon Dobbins
David Lee Griem
Gary James Gwizdala
John David Hilliard
William Charles Holcomb
Robert Alan Marquart
Howard Dallas Miller
Richard Dell Morey
Ronald Norman Rademacher
Donald Lewis Ross
Wallace K. Waterbury

Hotel, Motel and Club Management

Richard Thomas Albee
Randolph William Dunham
Brent Frederic Heidel
Brian Herbert Heidel
Robert Avery Koegler
H* *Yerachmiel Kugel
Richard F. Luis
William Edward Maxwell
Milo Eugene Mayo
Norman Earl Peterson
Henry James Sillman
Steven Ira Weiner
Susan Michal Weiner

Hotel, Restaurant and Institutional Management

Charles Logan Hunton
Ernest Raymond Stokes

Industrial Administration

Warren Reid Cook, Jr.
James Ronald Daugherty
*Basil Alan Morgan
Russel Ben Raabe, Jr.

Personnel Administration

David William Eakin
Antonio Mario Faggion
James Arnold Riecks
Gerald A. Share

Purchasing

John Edward Ellward

Restaurant Management

James Raymond Dunwell
William Stephen Proops

Risk and Insurance

John Frederick Leblond
*Stephen Verne Moulton

Transportation Administration

Roger Don LaPratt

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Business and Distributive Teacher Education

*Janice Pesko Bicknell
Robert J. Bouck
Alice May Emerick
Janice Margaret Grasman
*Joanne Carol Kucy
Adrienne Lowe Lapish
Judith Lynn Marble
Kathleen Ann Sheahan
Stanley Anthony Theis
* *Patricia Weigel Utter

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COLLEGE OF EDUCATION

JOHN E. IVEY, JR., DEAN

Education

DEGREE OF
MASTER
OF ARTS

Elizabeth Adams
Agnes Syron Anderson
Paul Edwin Andrews
Chris Babler
Stanley Charles Beck
Frederick William Beckett, Jr.
Hayworth Lee Bradley
Sidney K. Bradley
Marcia D. Brandt
Shirley Moore Brewer
E. Thomas Brewster
Ruth Brown Brow
Rosemary Bentham Brown
William Crane Burke
Vera M. Calhoun
Vincent Carl Carlen
Virginia May Chamberlain
John Dallas Curell
Mary Ann Day
Carolyn Dommer
Margaret Elizabeth Doud
Mary Janice Drapeau
Sister Thomas More Emery
Jane Elaine Engel

Beverly Jean Fairbairn
Boonlua Fangviang
Linda Susan Fields
Sherill Jean Fordyce
Chester A. Francke
Charles Richard Fry
William Charles Frymire
Michael John Gilin
Ray Edwin Howard
Harold Wesley Huber
John Cornelius Ickes
Raymond Alex Jokipii
Alpha Estella Jordan
Wayne G. Joosse
Marie Foerch Kelley
Daniel C. LaFave
Phoebe Anderson Layton
Georgeen Lorraine Luecht
Howard George Malitz, Jr.
John George Manders
Ellen L. McKinley
David Lawrence Milanowski
Ronald Edward Mott
Patricia Ann Murphy
Drucilla Ann Namey
Vicki Schlegel NeSmith

Kathryn Louise Nolan
Thomas Arthur Nyquist
Frederick Moses Okatcha
Dolores Jeanne Overmyer
William David Peterson
Richard Thomas Paperd
Andrew Pochodylo, Jr.
Charles Frederick Pugh
Ellen Marie Shaw
Elisabeth Ann Smith
Floyd Milton Smith
Joyce Elizabeth Spalding
Theodore Anthony Sprangel
Carol Ann Stephenson
Carl Franklin Stevens
Nancy I. Stoddard
Viphavan Suvannin
Donald Thomas Thornton
William Leslie Thuemmel
Glen E. Townsend
Carl Edward Vaara
Philip Bruce VanderVelde
Ralph Carl Waara
Kenneth Elmer Walsh
Lewis Philip Warriner
Donald George Wylie

Elementary Education

DEGREE OF
BACHELOR
OF ARTS

Ellen Lee Anderson
*Virginia Louise Anderson
Sharon Anne Arbanas
Patricia Ann Atkinson
Cheryl L. Bagi
Judy Kay Baker
Martha Jane Baldwin
Susan Elizabeth Barbour
*Joan Lee Bauer
Maxine Edwina Bennett
H* Marjorie Hazel Bergstrom
Cherie Bollaert
Sherril Lee Brinker
H* Mary Kathleen Brown
*Emily Reva Bruck
Randall Lee Butterfield
Diane Marie Christensen
Janice Elaine Cogger
Barry Neil Cousino
*Susan Carolyn Darling
Peggy Louise DeLau
Joan Dines
Karen Lynn Dreifuss

Constance Elizabeth
Emshwiller
Nanette Lee Fedor
Janis Nevene Flanders
Sandra Kay Ford
H* Diana Lynne Fuller
Diane Marie Gaffke
Jean Lukens Gehringer
Chere Ann Good
*Nancy Marie Goodman
Barbara Rochelle Green
Richard David Greene
Jane F. Handy
Valerie Lynn Henrich
Janet Kay Henny
Michael Charles Hernacki
Susan Barbara Hill
Kathleen Veit Hirschman
**Richard Elliott Hoehlein
**Patricia Kaye Hofmeister
Carol Jean Horetski
Karen L. Horn
Jean Gayle Hughes
Joan Elaine Hughes
Pamela Jean Jane

Kathleen M. Jones
Roberta Sue Kall
Karen Lee Katz
Yolonda Lou Kelley
Janice Hall Kietzmann
Alison Jeanne Kinkema
Judith Kaye Knappe
Maria Jo Knoth
*Ann Augusta Kometh
*Mary Ellen Kuffert
Barbara Byron Kwaizer
*Janis Marie Leckrone
Bryna Linden Leib
Robert Edwin Lilienthal
Mayra Ann Lowell
Donald Winston Maine
Peggy Arlene Mastenbrook
Barbara Ruth Matthews
H* Judith Waterbury Miller
Barbara Ann Elizabeth
Mortenson
Lola Naruye MaKogawa
Kay Jean Napper
Kathleen Susan Nelson
Marjorie Alexis Nelson
H* Barbara Ann Ondrias

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MaryLou Patrick
 H** Judith Bess Peterson
 Penelope Lyn Peterson
 Sandra Lee Ralph
 Merton Dean Reed
 Dietre Kaiser Riecks
 *Susan Kay Riser
 Shirley Irene Rix
 Edwardine Louise Schmanski
 Carol Lee Schmidt
 Diane Edith Schradel
 Gail Ann Schuhknecht
 Mary Jean Shackleton

Kent R. Skare
 Mary Gwen Slattery
 Carol Mercer Smith
 Gary Spinning Smith
 Gerald William Smith
 Lynn Frances Smith
 Marjory Ellen Stellberger
 H* *Dawn Lanette Stewart
 Elizabeth A. Stieler
 Mary Jo Sutton
 Ruth Ellen Swank
 *Otho Pence Thompson
 Valerie Jeanne Tolhurst

Susan Millicent Topor
 Carol Ann VanArkel
 Donna Marie VanSickle
 * *Gloria Lynn Wardie
 Sheryl Lynn Wendt
 Rita Anne Whaley
 Suellen Garner Whitson
 Bonnie Suzanne Willingham
 Barbara Frances Winkel
 Carol Lou Wooley
 Sharron Ann Yousoufian
 Linda Lou Zantop

DEGREE OF BACHELOR OF SCIENCE

Health, Physical Education and Recreation

James Alan Bannan
 V. Andree Bayliss
 Stuart Laurence Cameron, Jr.
 Lina May Centolella
 Mary Welch Corl
 Sharon Elizabeth Daly
 Toni C. Dean
 Dennis John Erickson
 Gerald Rodman Flynn

Joel Johann Garinger
 Patricia Agnes Goodrich
 Richard Eugene Gretzinger
 John Arland Lapiash
 Sherman Paul Lewis
 Allen Russell Marr
 Michael Grant Marshall
 Jack Lee McWilliams
 Phyllis E. Nix
 Andrew Robt. Palko
 Frederick Robert Pamenter
 David Joseph Porrell

Marcus Lowell Sanders
 Michael Joseph Senzig
 John Gary Smith
 Peggy Lynn (Fortune) Soth
 Scott Robert Soth
 * *Jerome Nicholas Stump
 Lynne Carol Willman
 Judy Ellen Winchell

Industrial Arts

*John N. Van Epps, Jr.

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COLLEGE OF COMMUNICATION ARTS

FRED S. SIEBERT, DEAN

DEGREE OF MASTER OF ARTS

Communication

Samir Najib Maamary

Journalism

Margaret Anne Fauver
Habib Rahman Hala

Speech

Joan B. Dolio
Charles Hunter Lindsay
Charles Stuart Packard

Television and Radio

Richard Henry Gerrero
Ronald Keith Salak

DEGREE OF BACHELOR OF ARTS

Advertising

Ronald Edward Clark
James Cairns Cook
Thomas William Hale
John Fred Hey
Lawrence Robert Kossack
David Baker Martens
Michael John McGill
Michael Robert McVeigh
*Judith Eve Mertz
Donald Victor Reuter
David John Sankovich
Robert Russell Stark
Richard Clair Taylor

Communication

*Katherine Powers deBlij

Journalism

G. Edward Bloom
Karin Mae Brams

**Virginia Haggard McIntosh
*Michael Kaye Morrison
William Henry Noack

Speech

William James Allred
H* Julia Anne Arnsman
Nancy Anne Merzlak
Dianne Disney Pfaff
Gerald Charles Thibault

Television and Radio

Douglas Cook Barker
Judy Lynn Caskey
Wayne LaVerne Corey, Jr.
John Paul Curran
Stuart Bruce Harris
Joseph Robert Hempstead
John J. Hunt
Dean Howard Kyburz

Dennis Lewin
Thomas Alan Moller
Timothy Andrew O'Brien, III
Joe Sal Porrevecchio
David Andrew Schafer
Richard Charles Vincent

DEGREE RECOMMENDED
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Speech

Rose Ann Campbell
Evelyn M. DeRusha
Nancie Elaine Grace
Joy Adele Hartfelder
Mary Kathryn Huber
Eileen Helen Marciniak
Rolyn Kay Schindler

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COLLEGE OF ARTS AND LETTERS

PAUL A. VARG, DEAN

DEGREE OF MASTER OF ARTS

Art

Joanne Marie Casey
Robert Herman Gertz
Selma D. J. Hollander
Leora Gail Manahan
Shirley Louise McKee
Mary Sue Kantz Preston
Donna Marie Reichert

English

Gwendolyn Parker Dhesi
Rip Gregory Economou
Marjorie L. Goodell
Donna Rita Lande
Oladipo Olusegun Ogundipe
George Wood Tuma

Sue Williams
Sandra Jean Yoviene

French

Robert Martin Farrington
Beverly Killingsworth
Petra Rodriguez-Roig

German

Else Eleonore Andretz
Anne Marie Fuhrig

History

Howard Haines Brown, III
Kenneth Daniel Ciszewski

John Hales Jefferies, Jr.
David Edward Munger
Anne McCabe Ousterhout
William Rumsey Parker
Okete Ellysham James
Shiroya

Philosophy

Bruce Gardner Buchanan
James I. Stepleton

Spanish

John Allan Bauserman
C. Yvonne Hively
Roosevelt Samuel Ruffin

DEGREE OF MASTER OF ARTS FOR TEACHERS

French

Susan Melissa Neal

History

Barbara Janice Brady
Harry Vance Ryerson

DEGREE OF MASTER OF FINE ARTS

Art

Norman Eugene Averill
Charles Leroy Deihl

DEGREE OF MASTER OF MUSIC

Applied Music

Emily Elizabeth Derr

Music Education

Margaret Ellen Adams

DEGREE OF BACHELOR OF ARTS

Art History

**Kathe Dennison Chipman

Art Practice

Emily Mae Dong
Jerry David Hoffman
Michael Joseph Krajniak
Jon Kent Pennington
Barbara Irene Smith
Susan Kaye Vigland
Paul Charles Weiner
Erli K. Welch
Sigurd Alexander Zobans

Arts and Letters

H**Lee Charles Ballance
Harry Thomas Bannister, Jr.
Mary Linda Barzler

English

Jane Adams
John Maury Dean
Carolyn Jane King
Katherine Stevens McClure
Marcia Paull
Roger Wilfred Rowen
*Ingrid Helene Tomey

French

Sophie Jeffries
Bonita Lynne Kelley
*Kathie Gene Torrans

German

Suzanne Margaret Malpass

History

Joy Davis Abele
**James Wood Diamond
Helen Worcester Jones

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COLLEGE OF ARTS AND LETTERS

DEGREE OF BACHELOR OF ARTS

Richard Allen Kleynenberg
Richard Wayne Krieger
Edward Patrick Murray
H* Judith M. Schiffman
Richard Emil Schulz

Humanities

William Richard Cavell
**David Lynn Ewing
Janet Marie Hitchcock
Victoria Ana Mejia
James H. Menton
David Roche Murphy
Richard Everett Van
Steenburg

Philosophy

David Allan Corns
Fred Baird Fischl
Charles Stephen Gurdin, Jr.

Religion

Harold Clifford Cogger, II

Russian

*Carole Lee Mason

Spanish

Franklyn Terry Cohen
Steven Rice Harry
Anselmo Lanoin Rodriguez
Jacqueline Mae Stowell

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Art Practice

Barbara Jill Cerkel
Roger William Duncan
Claire Zella LaMers
Nancy Jane Linn
Dorothy Jean Oleynik
Jane Steven Patris
Carol Ann Reid
H* Judith Elaine Reynolds
Mary Carlyne Seegraves
*Judy Ann Summers
Carol Ann Tanner

English

Carole Abajian Bryce
*Mary Hamlen Clark
Marcia Ann Courtney
Barbara Jo Damon
Joann Kathleen Doody
Francis John Fekete
Susan Olivia Gates
Virginia Dolores Greene
*Phyllis Ann Groenewoud
Nancy Louise Guthrie
*Donna Eddy Heiner
Judith Ann Hood
Vivian Kathleen Jackson
*Sandra Kay Kriesch
H* Donna S. Lunsford
Rosemary Martin
Susan Miriam Mermelstein
Merilee Griffin Pearson
Gloria Ann Peirsol
Gail Ellen Reese
Jefferson Frederic Riddell
H* Linda Kay Shellenbarger
Sharon Marie Smith
Lawrence Ellis Treppa

French

Barbara Ann Chapman
*Mila Jane Meeks
Katherine Elizabeth Remus
Nancy Carole Todd

History

Marcia Eileen Baird
*Elizabeth Brigham Baker
Barbara Ann Bohls
Ray Howard Chase
Diane Elizabeth Dymond
Robert Martin Field
Dennis Lee Gabel
H* Mary Michele Hamel
Mary Anne Moss
Suzanne Marguerite Perkins
Harvey Larry Rose
Michael W. Saunders
Cheryl Ann Schuster
Mary Ann Elizabeth Sudzina
Janet Kay Switzer
*Christ Thomas Tisheff
Michael Lewis Troyer
Jacqueline Ann Vidmar
H* Vicki Suzzette Waffle
William E. Wendorf
Elaine Joyce Zajdlik

Latin

Frederick Paul Partlow
Dolores Lasceski Vigeniski

Spanish

Jean Louise Downes
*Janet Gail Enyart
Sharon Frank
Sara Margaret Hudson
Annemarie Keenan
Kathryn Ann Levin

DEGREE OF BACHELOR OF FINE ARTS

Art Practice

H* Garry Russell Boyd
*Ieva G. Butterfield
*Patrick Martin Glance
**Russell David Kleis

DEGREE OF BACHELOR OF MUSIC

Applied Music

Judith Marie Anspach
Marion Carter Rosenson

Music Therapy

Joan Satterwhite Cartwright

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School Music

*Elizabeth Ann Barry
Richard Winston Blackford
John Roy Boren, III

Rebecca Pauline Brunton
H* Marsha G. Buck
Luann Evelyn Eslinger
James Robert Kot
*John Anthony Kuzmich, Jr.
Lynn Ann Reising
Karen Lee Schadel
*Myron Delford Welch

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COLLEGE OF NATURAL SCIENCE

RICHARD U. BYERRUM, DEAN

DEGREE OF MASTER OF ARTS

Mathematics

David Winfield Bash, Jr.

DEGREE OF MASTER OF ARTS FOR TEACHERS

Biological Sciences

Lillian E. Steiner

Mathematics

Clarence Arthur Powers

Physical Sciences

Karen Rodney Cranson

DEGREE OF MASTER OF SCIENCE

Biological Sciences

Lawrence Curtis Besaw
Jack Walter Boyer
Maryln G. Lawrence
Ward Curtis Stienstra
Sister Mary Pietro Woodward

Entomology

Robert Friedrich Wilhelm
Schroder

Microbiology and Public Health

Muazuz Abdullah Al Rawi

Botany and Plant Pathology

Carlos E. M. Bicudo
Isis Saad Mansour
Mark Samuel Mount

Geology

Christopher Paul Egan
Peter Humphrey Griggs
James Eugene Lowden
Allan Grant Richtmyer, Jr.
John Nicholas Roth
William Martin Whiting

Physics and Astronomy

Alvin Russell Hagler
John Glyn Lipham
Liek Wilardjo

Chemistry

Trudie Schuyler Barreras
David Vincent Owens
Ronald Harry Starkey
Kermit Rainsford Way, Jr.

Mathematics

Brian R. Bortell
Jack L. Crowell
Shishir Nanasaheb Tawde

Statistics

Peter Wilfred Dennett

DEGREE OF BACHELOR OF ARTS

Chemistry

Samuel Curtis Emerson

DEGREE RECOMMENDED
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Mathematics

Theresa McLaughlin Azzawi
Concha Estelle Gutierrez
Robert Alford Sellars, Jr.
John Charles Visingardi

Mathematics

**Anne Lester Frier

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DEGREE OF BACHELOR OF SCIENCE

Biochemistry

H* Wayne R. Melander
Kenneth Alan Price

Chemistry

Vincent Jerome Mirkil

Entomology

Willie Earlston Andrews

Geology

Michael William Barratt
* Todd Michael Gates
Richard Michael Shaw

Mathematics

Dennis Joseph Collins
Jerry Michael Garwood
* Susan Jean Gull
John Philip Holcomb
* Joseph Charles Hudson
Dennis Michael Nickolai
H** William Albert Webb

Microbiology and Public Health

George Carl Babcock

Nursing

Sharon Margaret Ensfield
Lavonne May Huels
* Ruth Marie Mossner
Judith M. Osier
* Luella Darleen Pike
Joan Louise Scialli

Physics and Astronomy

John Gantt Haviland
Howard Jack Stears

Physiology

H* C. Duane Gardner

Zoology

* Thomas Fred Alguire
* Judianne Anderson
Lawrence Howard Brickman
* David Louis DeSautel
James Michael Houck
Welton Bingham Hunter, Jr.
John Ward Johnstone
George Franklin Knox, II
Robert Gregory Lough
* Douglas E. McLearn
Mark John Petrie
* Terry Alan Polevoy
* David Mathew Stiles
Maria Annetta Thompson
Valdis Vitols
Peter Victor Vollweiler
Barry Lynn Watson

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Biological Sciences

Roberta Noel Adamski
Robert J. Beagle
Edgar Thomas Bliss
Mary Lee Canfield
Mary Anna Higby
* Michele Rae Secore
* Mary Jane Slesinski
* Daniel Patrick Vaughan
* Lester A. Wade
Nancy Paula Wilkinson

Chemistry

Thomas Ellis Montague
Joseph Eugene Venola

Mathematics

David Henry Burgess
George Stephen Driehick
David A. Hallberg
Thomas Randle Little
* Susan Thurow Miller
Henry John Peot
Robert Duane Ringle
Robert Marvin Rotman
Virginia Ione Taylor
Marlene Louise Vidmar
Mary Elizabeth Weidmayer

Zoology

Karen Ann Gaide
William A. Hasse

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COLLEGE OF SOCIAL SCIENCE

LOUIS L. McQUITTY, DEAN

DEGREE OF MASTER OF ARTS

Political Science

Paul Achiel Dawson
Paul Lynn Hain

Psychology

Linda Sue Brody
Edward Rea Christophersen
Richard Bowditch Does

Frederick Norman Dyer

Karen Sue Kamerschen
Edward John Lessin
James I. Linden
Marilyn H. Mackenzie
Arlys M. Nelson
William Jacob Pieper
Harold Stanley
Sommerschield

Sociology

Anne Louise Berkey
Jack Eberhardt Damson
Benjamin Tubio Leong
Yogini Bhagawandas
Thanawalla

DEGREE OF MASTER OF LANDSCAPE ARCHITECTURE

Clinton Havarro Hewitt

DEGREE OF MASTER OF SCIENCE

Police Administration and Public Safety

Richard Nelson Campbell

Shalonglap Davivongsa
Ali Zein El-Abedein Ibrahim
Hussein

Ronald Eugene Jorgensen
Richard Arnold Wild

DEGREE OF MASTER OF SOCIAL WORK

Charles Anthony Bader
Lynn Edward Spitz-Nagel

DEGREE OF MASTER OF PUBLIC ADMINISTRATION

Joseph Lawrence Farrell
David Lee Mulder

DEGREE OF MASTER OF URBAN PLANNING

Clifford Richardson Bragdon
Bruce Barter Brown
Louis Proal DeVoe

Joseph Anthony Kowalski
Robert Louis Kuehne

Joel Peter Morbito
Max Reinier Putters
David Louis Walker

DEGREE OF BACHELOR OF ARTS

Anthropology

Mark Krastof

Geography

Cherie Lee Dixon
Douglas John Emery
Sonya Helen Scrivens
Kenneth B. Wolfe

Political Science

Thomas Ralph Ballman
Ronald Alfred Ballweg
Lynn E. Bradeen
Charles Eugene Cisco

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COLLEGE OF SOCIAL SCIENCE

DEGREE OF BACHELOR OF ARTS

James Clyde Dillard
Dennis Michael Doran
H** Jennifer Lee Drew
Jerry Lynn Drew
John Richard Higbee
H** Bruce Jerome Johnston
William C. Judge
Thomas Leon Mann
H* Philip Neal Marcus
* Douglas Roy Parker
Gary Baker Perkins
* John Michael Senger
* Patricia Ramsdell Widmayer

Psychology

Elaine Elizabeth Beck
David Philip Bristol
Linda Helen Chelsea
Ruth Evelyn Cronkite
Donna Jeanne Distasio
* Robert James Halsall
Thomas Phillip Kellogg
H** Cheryl Lea Lessin
* Sharon Kohl Miller
Patricia Ann Mullen
James Coughlin O'Donnell
Alice Carolyn Potter
H* Dale Marguerite Soderman
Richard Wayne Stahlman
Susan Pierce Taylor
H** Lynne Gertrude Tenbusch
Gail Cecilia Vanden Bossche
William Douglas Walker
Douglas R. Withee
Ronald Frederick Witucki

Social Science

David James Baird
Sara Elizabeth Benedict
Charles E. Bryant, Jr.
* Carl Edward Cook
James Edward Cummings,
Jr.
Susan Jo Dail

Geography

Richard Brooke Gilson

Landscape Architecture

Heinrich Fischer
H* Arthur N. Glick
James Robert Somerville

Police Administration and Public Safety

** John Edward Angell
James Penney Ayers
Gerald Willis Beach
Tyler Trent Berkley
Zaidos Neil Church
Carol Louise Cline
Dennis Dean Deakin
Edwin Frederick Jahn, Jr.
Frederick Johnson
William Edward Korb

James Warren Dewey
Robert Charles Domol
Edward King Ellsworth, Jr.
John Gale Fitch, II
Kenneth L. Franklin
Samuel Raymond Hargraves
Sanford William Haynes, Jr.
Stephen Gary Hayskar
H** Dana Jean Heidrick
John Kenneth Heitkamp
Robert Stanley Hudley
James Kenneth Jesse
* Loretta Ann Johnston
Cynthia Lee Leitman
Mark Lobanoff
Karen Marie Lowry
Bruce Duncan Northrup
Dennis John O'Donnell
Dale Allen Peters
Frederick Paul Piet
* Penelope Irene Post
Drew Peter Peslar
Judith Helene Prusow
Julie Conway Rabaut
Susan Jane Russell
David Randolph Sabin
Robert Hugh Schwartz
Tonja Lee Silky
* Helen Smith
H** Susan Louise Speier
Randolph G. Ston
Richard Pearson Tillstrom
Jeffrey Mathew Trimble
Thomas Neal Usher
Robert Gayle van Kolken
* George Daniel Webb, II
Ted Robert Yeagley

Social Work

Carol Mae Berkey
Judith Allen Burch
Nancy Jo Christian
Caron Arlene Goldfine
Nancy Phillips Idalski
Sharron LEEanne Meldrum

John Michael Leslie
J. R. Mason
Harry Fitzsimons Milne
Roger Charles Nauert
Beverley Jean Raymes
Steven Martin Sanders
Frank Richard Tomascik
Bruce Robert Winge

Psychology

Kenneth Eugene Andrews
Gerald Eugene Baker
Robert Doyle Cable, Jr.
Uldis J. Dakers
Raymond Bernard Grundy
* Robert Lawrence Rose
Thomas Dwight Swiger

Social Science

Gail Davison
* John Powers Gaa

* Kriss Middleton
* William Edward Murray
Rosanne Grace Parks
* Nancy Deane Patel
James Benjamin Quigley

Sociology

* Allan David Corcoran
Roger Allen Hart
Harold W. Hitchcock, Jr.
Jon Willard Newman
Pauline Pappas
Peter Harry Rubenstein
Gordon Ronald Welch
* Raymond Joseph Zigmont

DEGREE RECOMMENDED
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Political Science

Thomas Albert Green

Social Science

* Penelope K. Baker
Nancy Sue Cutler
Van James Dimitriou
MaryAnn Roder Donley
* John Christopher Ducat
Richard Ormond Flynn
Sylvia Irene Harp
Barbara Jean Herrmann
Patricia Kay Jencks
Jean Marie Matz
* Gary Lee Mitchell
George David Nama
Thomas Eugene Oakley
Dorothy Jane Parrott
Constance Lou Stephenson
C. Bruce Tuberdyck
H* Robert Eugene Williams
Robert Ray Wilson

Leonard Chester Myers
Robert Bailey Schwartz
John Edward Taylor

Urban Planning

R. Joseph LaBenne
Tom W. Newton
Jack Edward Nienhuis
Wade Eldred Pierce
Owen Earl Smith
Joseph William Sutschek

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Social Science

H** Carol Vine Getts

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RESERVE OFFICERS TRAINING CORPS

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

AIR SCIENCE

Gerald Rodman Flynn
James Edwin Frederick
*Welton Bingham Hunter, Jr.

Alan Gerald Robert
Hutcheson

Gene Frederick Lambert
Howard Jack Stears

MILITARY SCIENCE

Artillery

Samuel Curtis Emerson
*William A. Hasse
*David Joseph Porrell
Robert Marvin Rotman
Sigurd Alexander Zobans

Infantry

Dennis Lee Gabel
John Ward Johnstone
Walter Lee Morrill

Medical Service Corps

Azidos Neil Church

Ordnance

John Mitchell Russ

Quartermaster Corps

Richard F. Luis

Signal Corps

Simon Albert Scholtens

Transportation Corps

*Robert Herman Hass
Richard Wayne Krieger

*Distinguished Graduates