



COMMENCEMENT 1966
MICHIGAN STATE UNIVERSITY



COMMENCEMENT 1966

Saturday, December 10
University Auditorium, East Lansing

ACADEMIC COSTUME

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

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

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

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

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

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

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

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

ORDER OF CEREMONIES

PROCESSIONAL

TRIUMPHAL MARCH FROM "AIDA" — *Verdi*
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

THE REVEREND THEODORE K. BUNDENTHAL
Lecturer, Department of Religion, Michigan State University
Pastor, Martin Luther Chapel, East Lansing, Michigan

ADDRESS

STEPHEN J. WRIGHT, B.S., M.A., Ph.D.
President of the United Negro College Fund

SPECIAL MUSIC

FANTASIA ORIGINAL — *Picchi*
SERENADE — *Schubert*
Leonard Falcone, *Euphonium*
William C. Moffit, *Conductor*

CONFERRING OF DEGREES

JOHN A. HANNAH, D. Agr., 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

THE REVEREND MR. BUNDENTHAL

RECESSIONAL

HAIL, AMERICA — *Drumm*

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 CONNER D. SMITH	<i>Pinconning</i>
THE HONORABLE STEPHEN S. NISBET	<i>Fremont</i>
THE HONORABLE DON STEVENS	<i>Okemos</i>
THE HONORABLE FRANK HARTMAN	<i>Flint</i>
THE HONORABLE CLAIR WHITE	<i>Bay City</i>

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 112th 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, 425 buildings, and 4,900 acres of land, including 1,515 acres in the campus and housing area and 490 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 nearly 200 Merit Scholars in this year's freshman class. This figure represents more than seven percent of the nation's total of this unusually select group.

One of the newest of many innovations in higher education made by Michigan State University is its coeducational academic residence halls. Incorporation of classrooms and faculty offices with living, dining and recreational facilities has given these giant new dormitories a stimulating academic environment. Eight 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 38,000 students attend the University at East Lansing. About 80 percent are from Michigan, representing every section of the state. Students also come from every state in the nation and 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. Modern facilities 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 (now completed), a staff of approximately 90 persons and an annual budget of approximately \$1 million when the program is fully underway.

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

Michigan State University's land-grant concept of service is international. Supported by grants from the federal government and private foundations, Michigan State University maintains research and technical assistance projects at 18 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 DEGREE

STEPHEN JUNIUS WRIGHT

Your career as an educator, administrator, and civic leader has brought you widespread recognition by your grateful fellow-citizens. During your years as a teacher and adviser of young men and women in the Negro colleges of the South, and more recently as President of Fisk University and as President of the United Negro College Fund, you have displayed the finest qualities of devotion and leadership. Despite the heavy responsibilities of your academic life, you have given generously of your time and energy to important civic movements and professional organizations. Your rise to eminence is an inspiring example of the achievements which are possible in our American environment for men of vision, courage and faith. Because of your many contributions to the intellectual and social welfare of your fellow citizens, and your continued support of the democratic traditions of education in America, Michigan State University confers upon you the degree of Doctor of Laws.

THE CANDIDATES FOR DEGREES

1966 CLASS ROSTER

This includes the names of candidates for degrees as of the close of the 1966 Fall term, as well as the names of recipients of the Doctoral degrees at the close of the 1966 Summer term.

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

SCHOOL FOR ADVANCED GRADUATE STUDIES

MILTON E. MUELDER, DEAN

DOCTORAL DEGREES

JOHN NDUKA ABAELU, Ph.D.

B.S., Ibadan University, Nigeria; M.S., University of London.
Agricultural Economics. Major Professor: Lester V. Manderscheid,
Associate Professor.

Thesis: A Quarterly Analysis of the United States' Import Demand
for Green Coffee Varieties.

JOHN RODGER ADAMS, Ph.D.

B.S., Marquette University; M.S., Michigan State University.
Civil Engineering. Major Professor: Charles E. Cutts, Professor.

Thesis: Dispersion in an Anisotropic Porous Media.

HAMID ABDULLAH AL-JASIM, Ph.D.

B.S., Baghdad University; M.Agr., Purdue University.
Food Science. Major Professor: Pericles Markakis, Associate Professor.
Thesis: Effect of Irradiation on Peroxidases.

DELORAN (DELL) M. ALLEN, Ph.D.

B.S., Kansas State University; M.S., University of Idaho.
Animal Husbandry. Major Professor: Robert A. Merkel, Associate
Professor.

Thesis: The Relationship of Some Linear and Physical Measurements
to Beef Carcass Composition.

GUVENC ALPANDER, Ph.D.

B.A., Middle East Technical University, Turkey; M.A., Michigan State
University.

Business Administration (Management). Major Professor: Eugene E.
Jennings, Professor.

Thesis: Big Business and Big Business Leaders in Turkey.

THOMAS F. BALDWIN, Ph.D.

B.B.A., University of Cincinnati; M.A., State University of Iowa.
Communication. Major Professor: Randall P. Harrison, Assistant
Professor.

Thesis: Redundancy in Simultaneously Presented Audio-Visual Mes-
sage Elements as a Determinant of Recall.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

ARTHUR CHRISTY BALLAS, Ph.D.

B.S., Tufts University; Ed.M., Boston University.
Education. Major Professor: Buford Steffle, Professor.
Thesis: Counseling Process and Outcome Related to Client's Perception of Self and Counselor.

RAYMOND JOSEPH BARRERAS, Ph.D.

B.S., University of New Mexico.
Chemistry. Major Professor: William H. Reusch, Associate Professor.
Thesis: Photochemical Isomerization in the Tetracyclo [4. 3. 0. 0^{2,4}. 0^{3,7}] nona-8-ene System.

GERALD PAUL BECKERLE, Ph.D.

B.A., Bellarmine College; M.A., Michigan State University.
Psychology. Major Professor: Lucy R. Ferguson, Associate Professor.
Thesis: Behavioral Traits Related to Psychological Differentiation in Pre-Adolescent Boys.

RONALD WILBUR BEERY, Ph.D.

B.S., Western Michigan University.
Physics. Major Professor: Joseph Ballam, Professor.
Thesis: An Experimental Measurement of Cosmic-Ray Scattering by Aluminum, in the Momentum Region of 1.60 Bev/c.

RICHARD EUGENE BERG, Ph.D.

B.S., Manchester College; M.S., Michigan State University.
Physics. Major Professor: Henry G. Blosser, Professor.
Thesis: Precise Methods for Pre-Calculation of Cyclotron Control Settings.

GERD BÖGER, Ph.D.

M.A., Michigan State University.
Education. Major Professor: William J. Walsh, Professor.
Thesis: A Content Analysis of Selected Children's Books on the Negro and on Japan.

ROBERT ELGIN BOICE, Ph.D.

A.A., Grand Rapids Jr. College; B.A., M.A., Michigan State University.
Psychology. Major Professor: Stanley C. Ratner, Professor.
Thesis: The Problem of Domestication in the Laboratory Rat and a Comparison of Partially Reinforced "Discriminatory" and "Anticipatory" Licking in Domestic and Wild Strains of *Rattus Norvegicus*.

EVERETT FRANCIS BOLTON, Ph.D.

B.S.A., M.S.A., Ontario Agricultural College.
Soil Science. Major Professor: A. Earl Erickson, Professor.
Thesis: Effects of Soil Flooding on Ethanol Content of Tomato Plants Related to Certain Environmental Conditions.

BRUCE G. BUCHANAN, Ph.D.

A.B., Ohio Wesleyan University; M.A., Michigan State University.
Philosophy. Major Professor: Gerald J. Massey, Associate Professor.
Thesis: Logics Scientific of Discovery.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

- JOHN EDWARD CLIFFORD, Ph.D. B.S., John Carroll University; M.A., Saint Louis University.
Speech. Major Professor: James R. Brandon, Associate Professor.
Thesis: A Descriptive Study of Style in Serious American Drama on the New York Stage from 1931 Through 1941.
- DENISE YEN CHING CO, Ph.D. B.S., Taiwan Provincial College of Agriculture, China; M.S., University of California.
Food Science. Major Professor: Sigmund H. Schanderl, Assistant Professor.
Thesis: Detection, Isolation and Characterization of Chlorophyll and Related Pigments During Ripening of Fruits and Vegetables.
- HUGH MCCLELLAN CULBERTSON, Ph.D. B.S., Michigan State University; M.S., University of Wisconsin.
Communication. Major Professor: Verling C. Troidahl, Associate Professor.
Thesis: Influence of Message Structure and Artwork on Apparent Stand of Message Writer.
- LAWRENCE HENRY CUNNINGHAM, Ed.D. B.S., M.A., Eastern Michigan University.
Education. Major Professor: Clyde M. Campbell, Professor.
Thesis: The Role of the Home School Counselor in Urban School Systems.
- DONALD JOHN CUTTING, Ph.D. Th.B., Detroit Bible College; Ph.B., University of Detroit; M.A., Michigan State University.
Education. Major Professor: James Costar, Professor.
Thesis: Predicting the Selection of a Field of Concentration at Michigan State University from the Personal Information Inventory.
- HAROLD WILLIAM DAVIES, JR., Ph.D. B.S., M.S., Kansas State Teachers College.
Botany and Plant Pathology. Major Professor: Gerald W. Prescott, Professor.
Thesis: Ecology and Seasonal Variation of the Psammon Flora of a Sandy Beach Transect.
- PAUL FRANCIS DIERKER, Ph.D. B.S., University of Dayton; M.S., Michigan State University.
Mathematics. Major Professor: Patrick H. Doyle, Professor.
Thesis: Strongly Pointlike Maps and Collapsible Complexes.
- THOMAS FRANCIS EDWARDS, Ed.D. B.S., Illinois State Normal University; M.A., Arizona Normal University.
Education. Major Professor: John M. Mason, Professor.
Thesis: A Study in Teaching Selected Intellectual Skills to Kindergarten Children.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

LONNIE LEVET EMERICK, JR., Ph.D.

B.A., M.A., Michigan State University.
Speech. Major Professor: Herbert J. Oyer, Professor.
Thesis: An Evaluation of Three Psychological Variables in Tonic and Clonic Stutterers and in Non-Stutterers.

ROBERT BRUCE ENGLE, Ph.D.

B.S., M.S., Purdue University.
Mechanics. Major Professor: Terry Triffet, Professor.
Thesis: Acoustic Emission and Related Displacements in Lithium Fluoride Single Crystals.

DAVID STANLEY EVANS, JR., Ed.D.

B.A., Indiana University; S.T.B., Boston University.
Education. Major Professor: John E. Jordan, Associate Professor.
Thesis: The Role of the Minister in Marital Counseling in Divorce Situations.

RODNEY EARL EVANS, Ph.D.

B.A., M.B.A., Michigan State University.
Business Administration (Marketing). Major Professor: William J. E. Crissy, Professor.
Thesis: An Empirical Analysis of the Function and Role of the Field Sales Manager.

WAHEED ALI FAROOQI, Ph.D.

B.A., B.T., University of Sind; M.A., University of Karachi.
Philosophy. Major Professor: Craig A. Staudenbaur, Associate Professor.
Thesis: A Spiritual Interpretation of Reality in the Light of Berkeley's Immaterialism.

LOUIS EDWARD GARDNER, Ph.D.

B.S., M.A., Xavier University.
Psychology. Major Professor: Stanley C. Ratner, Professor.
Thesis: Habituation in the Earthworm: Retention and Overhabituation.

GEORGE RICHARD GEBHART, Ph.D.

B.S., University of Dayton; M.A., University of Miami.
Economics. Major Professor: John M. Hunter, Professor.
Thesis: A Test of the Economic Relevancy of the Holdridge Life Zone System.

GARY ROBERT GEMMILL, Ph.D.

B.S., Ferris Institute; M.B.A., Michigan State University.
Business Administration (Management). Major Professor: Eugene E. Jennings, Professor.
Thesis: An Analysis of the Relationship Between the Behavioral Sciences and Management Theory and Practice: An Exploratory Investigation.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

- TEDFORD A. GILLET, Ph.D. B.S., M.S., University of Idaho.
Food Science. Major Professor: Albert M. Pearson, Professor.
Thesis: Variation in Potassium and Sodium as Related to Body Composition.
- ALBERT DAVID LINCOLN GORRILL, Ph.D. B.S.A., M.S., University of Saskatchewan.
Dairy. Major Professor: J. William Thomas, Professor.
Thesis: Exocrine Pancreatic Enzyme Synthesis and Secretion and Intestinal Proteolytic Activity and Stability in Calves.
- E. LEONA HALL, Ed.D. B.A., Alma College; M.A., Michigan State University.
Education. Major Professor: Calhoun C. Collier, Professor.
Thesis: Methods and Materials of a Mathematics Program for the Disadvantaged and Underachieving Child.
- DAVID WRIGHT HALSTED, Ph.D. B.S., M.A., Michigan State University.
Psychology. Major Professor: William W. Farquhar, Professor.
Thesis: An Initial Survey of the Attitudinal Differences Between the Mothers of Over-Achieving and Under-Achieving Eleventh Grade Puerto Rican Students.
- LLOYD DANIEL HAYS, Ph.D. B.A., M.A., Michigan State University.
Philosophy. Major Professor: Henry S. Leonard, Professor.
Thesis: The Ethical Intuitionism of Richard Price.
- SARAH DINHAM HERVEY, Ph.D. B.S., University of Minnesota; M.A., Michigan State University.
Education. Major Professor: Bernard R. Corman, Professor.
Thesis: Cognitive Style and Preferences in School Tasks.
- ROBERT HESS HINES, Ph.D. B.S., Purdue University; M.S., Michigan State University.
Animal Husbandry. Major Professor: Jacob A. Hoefer, Professor.
Thesis: The Interaction of Restricted Feed Intake and Sex on Swine Performance and Carcass Quality.
- HUGH HORACE HOLLOWAY, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Donald J. Leu, Professor.
Thesis: Why School Superintendents are Dismissed or Encouraged to Leave Their Positions — A Study as Expressed by Members of Board of Education Involved in Selected Cases in Michigan.
- NELSON CHIN-TSE HSI, Ph.D. B.A., University of Hong Kong.
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.
Thesis: Structural Studies of Aldehydes and Oxime O-Methyl ethers by Nuclear Magnetic Resonance Spectroscopy.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

- BEVERLY JEAN HUNT, Ed.D. B.A., Eastern Illinois State University; M.A., Michigan State University.
Education. Major Professor: Willa Norris, Professor.
Thesis: Characteristics, Perceptions, and Experiences of Married Women Students at Lansing Community College, 1965.
- ROBERT WAYNE HUSBAND, Ph.D. A.B., University of Michigan; M.A., Western Michigan University.
Zoology. Major Professor: T. Wayne Porter, Professor.
Thesis: Acarina Associated with Michigan Bombinae.
- JACOB JACOBY, Ph.D. B.A., M.A., Brooklyn College (C.U.N.Y.).
Psychology. Major Professor: Milton Rokeach, Professor.
Thesis: Situational Anxiety and Birth Order as Determinants of Dogmatism and Authoritarianism.
- LARRY C. JENSEN, Ph.D. B.S., M.S., Brigham Young University.
Psychology. Major Professor: Donald E. Hamachek, Associate Professor.
Thesis: The Effects of Grades on Cognitive and Affective Learning.
- LOWELL GENE KAER, Ph.D. B.A., Adrian College; M.A., Michigan State University.
Education. Major Professor: Eldon R. Nonnamaker, Associate Professor.
Thesis: An Analysis of Selected Characteristics and Experiences of Freshmen Students in the Michigan State University Justin Morrill College.
- FREDRICK JAY KAYNE, Ph.D. B.S., Illinois Institute of Technology.
Biochemistry. Major Professor: Clarence H. Suelter, Associate Professor.
Thesis: A Physical Analysis of the Effects of Temperature and Substrates on the Structural and Catalytic Properties of Rabbit Muscle Pyruvate Kinase.
- MARLENE STEINMETZ KAYNE, Ph.D. B.S., St. John's University.
Biochemistry. Major Professor: William C. Deal, Jr., Associate Professor.
Thesis: Reversible Dissociation and Characterization of Rabbit Muscle Pyruvate Kinase.
- MARISA GESINA KEENEY, Ph.D. A.B., Trinity University; M.R.E., Princeton Seminary.
Psychology. Major Professor: William W. Farquhar, Professor.
Thesis: College Student Counselor Preferences for Help with Problems of Sex and Anger.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

ELEANOR ANN KELLEY, Ph.D.

B.S., M.Ed., Auburn University.
Sociology. Major Professor: J. Allan Beegle, Professor.
Thesis: Peer Group Friendships' in One Class of High School Girls;
Change in Stability.

ERNEST EDWIN KERN, Ph.D.

B.S., Michigan State University.
Chemical Engineering. Major Professor: Donald K. Anderson, Associate Professor.
Thesis: Diffusion of Polyelectrolytes in Aqueous Solution.

CHARLES DOUGLAS KESNER, Ph.D.

B.S., M.S., Michigan State University.
Horticulture. Major Professor: Stanley K. Ries, Professor.
Thesis: The Mode of Action of Diphenamid (N, N-dimethyl 2, 2-Diphenylacetamide) in Plants.

ERNST W. KIESLING, Ph.D.

B.S., Texas Technological College; M.S., Michigan State University.
Mechanics. Major Professor: William A. Bradley, Professor.
Thesis: Nonlinear, Quasi-Static Behavior of Some Photoelastic and Mechanical Model Materials.

SUNG BOK KIM, Ph.D.

B.A., Seoul National University; M.A., University of Wisconsin.
History. Major Professor: Robert Brown, Professor.
Thesis: The Manor of Cortlandt and its Tenants, 1697-1783.

LOWELL DONALD KISPERT, Ph.D.

B.A., St. Olaf College.
Chemistry. Major Professor: Max T. Rogers, Research Professor.
Thesis: Electron Spin Resonance of Irradiated Organic Single Crystals.

WARREN GREGORY KNEER, Ph.D.

B.S., M.A., Creighton University.
History. Major Professor: Paul A. Varg, Professor.
Thesis: British-American Relations in the Caribbean Area 1900-1912.

WEN-HSIUNG KO, Ph.D.

B.S., National Taiwan University.
Botany and Plant Pathology. Major Professor: John L. Lockwood, Associate Professor.
Thesis: Mechanism of Soil Fungistasis.

JAMES RICHARD KRUM, D.B.A.

A.B., Gettysburg College; M.S., Pennsylvania State University.
Business Administration (Marketing), Major Professor: Donald A. Taylor, Professor.
Thesis: Role Analysis of the Director of Marketing Research Position in Large Industrial Firms.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

- SHELDON SIDNEY LANDE, Ph.D. B.S., Illinois Institute of Technology.
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.
Thesis: Stereochemical Studies of Schiff Bases by Nuclear Magnetic Resonance Spectroscopy.
- CHARLES EVERETT LAUTERBACH, Ph.D. B.A., M.A., University of Colorado.
Speech. Major Professor: James R. Brandon, Associate Professor.
Thesis: A Descriptive Study of Trends in Dramatic Styles in the Successful, Serious American Drama of the Broadway Stage in the 1920's.
- NAN LIN, Ph.D. B.A., Tunghai University; M.A., Syracuse University.
Communication. Major Professor: Verling C. Troidahl, Associate Professor.
Thesis: Innovation Internalization in a Formal Organization.
- HUGO KARL LIST, Ph.D. B.A., Northwestern College; T.M., Theological Seminary, Mequon, Wisconsin; M.A., Michigan State University.
Education. Major Professor: George Barnett, Professor.
Thesis: Approach to a Definition of Leisure.
- THOMAS RAYMOND LONG, Ph.D. B.F.A., M.F.A., University of Oklahoma.
Speech. Major Professor: James R. Brandon, Associate Professor.
Thesis: A History of the American Courtroom Play.
- WILLIAM THERON LOTHERS, Ph.D. B.A., Oklahoma State University; M.A., University of Oklahoma.
Speech. Major Professor: Kenneth G. Hance, Professor.
Thesis: A Survey Study of Methods and Rationales in the Criticism of Classroom Speeches in the Beginning College Course.
- DAVID WALLACE MACKY, Ph.D. B.S., Allegheny College; M.S., Michigan State University.
Statistics. Major Professor: James F. Hannan, Professor.
Thesis: Some Decision Procedures in Exponential Families.
- HIROFUMI MATSUSAKI, Ph.D. B.A., Tokyo University; M.B.A., Michigan State University.
Business Administration (Marketing). Major Professor: William J. E. Crissy, Professor.
Thesis: The Adaptation and Marketing Strategies of the Japanese Manufacturing Firms Operating in the United States: An Ecological Analysis and An Introductory Survey.
- FLOYD V. MATTHEWS, JR., Ph.D. B.S., Virginia Polytechnic Institute; M.S., Oklahoma State University.
Agricultural Engineering. Major Professor: Carl W. Hall, Professor.
Thesis: Thermal Diffusivity by Finite Differences and Correlation with Physical Properties of Heat Treated Potatoes.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

- EDWARD ARTHUR McASH, Ph.D. B.Th., Toronto Baptist Seminary; A.B., Wayne State University; B.D., Central Baptist Seminary; M.A., Michigan State University.
Education. Major Professor: Edward B. Blackman, Professor.
Thesis: A Study of Continuing Education Programs for the Ministry in the Theological Seminaries of the United Presbyterian Church in the U.S.A.
- HOWARD McCONEGHEY, Ed.D. B.F.A., Washington University; M.A., New Mexico Highlands University.
Education. Major Professor: Troy L. Stearns, Professor.
Thesis: Art as Communication.
- THOMAS FREDERICK McDONALD, Ph.D. B.S., M.Ed., University of Georgia.
Education. Major Professor: Buford Stefflre, Professor.
Thesis: An Investigation of the Effects of a Rapid Transition from "Open Door" to "Selective" Admissions.
- JEAN CAROL McINTYRE, Ph.D. B.S.E., University of Arkansas; M.S., University of Illinois.
Education. Major Professor: Janet A. Wessel, Professor.
Thesis: A Conceptual Framework for the Humanistic Physical Education Curriculum in Higher Education.
- ROBERT J. MERTZ, Ph.D. B.A., M.A., University of Oregon.
Communication. Major Professor: David K. Berlo, Professor.
Thesis: Acceptance of Persuasive Influence as Related to Three Dimensions of Source Evaluation.
- GARY LEE MINISH, Ph.D. B.S., State College of Iowa.
Animal Husbandry. Major Professor: Herman W. Newland, Associate Professor.
Thesis: Concentrate Level, Feeder Grade, and Breed Type, Their Relationship to Production Factors and Carcass Characteristics in Fattening Calves.
- EARL DOUGLASS MITCHELL, JR., Ph.D. B.S., Xavier University; M.S., Michigan State University.
Biochemistry. Major Professor: N. Edward Tolbert, Professor.
Thesis: Isolation and Characterization of a Germination Inhibitor from Sugar Beet Fruit.
- MARVIN RICHARD MOORE, Ph.D. B.A., M.A., Michigan State University.
Psychology. Major Professor: John R. Hurley, Professor.
Thesis: Consistency of Interaction in Normal and Clinic Families.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

- JOHN EDWARD NOLAN, Ph.D. B.S., M.S., Michigan State University.
Mechanical Engineering. Major Professor: Rolland T. Hinkle, Professor.
Thesis: Analytical Investigation of Stability of Squeeze-Film Journal Bearings.
- RALPH DANIEL NYLAND, Ph.D. B.S., M.S., New York State College of Forestry.
Forestry. Major Professor: Victor J. Rudolph, Professor.
Thesis: Sugar Maple and Its Use for Sap Production in Michigan's Lower Peninsula.
- DENNIS PAUL NYQUIST, Ph.D. B.S., Lawrence Institute of Technology; M.S., Wayne State University.
Electrical Engineering. Major Professor: Kun-Mu Chen, Associate Professor.
Thesis: Traveling Wave Antennas with Impedance Loading.
- ELIJAH OSUOHA ODOKARA, Ph.D. B.S., McPherson College; M.S., University of Wichita.
Education. Major Professor: Russell J. Kleis, Associate Professor.
Thesis: A Theoretical Basis for Analysis of Adult Education in Developing Countries: A Review of Adult Education Programs in Rural Communities of Eastern Nigeria.
- ROGER OSWOLD OLIVE, Ph.D. A.B., Hope College; M.A., Michigan State University.
Psychology. Major Professor: John R. Hurley, Professor.
Thesis: Filicide as Related to Female Oedipal Problems.
- KENNETH WILLIAM OLSEN, Ph.D. B.S., University of Utah; M.S., Michigan State University.
Education. Major Professor: James E. Heald, Associate Professor.
Thesis: Professional Expectation Fulfillment and Perception Formation Among High School Teachers and Principals.
- YUH KANG PAN, Ph.D. B.S., National Taiwan University.
Chemistry. Major Professor: Max T. Rogers, Research Professor.
Thesis: Quantum Mechanical Analysis of High-Resolution Nuclear Magnetic Resonance Spectra.
- ANN CARLSON PATERSON, Ph.D. B.A., University of Rochester.
Sociology. Major Professor: Wilbur B. Brookover, Professor.
Thesis: An Evaluation of An Instrument Designed to Measure the Construct "Self-Concept of (Academic) Ability."

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

MERLE EUGENE QUENEMOEN, Ph.D.

B.S., M.A., Montana State College.
Agricultural Economics. Major Professor: Glenn L. Johnson, Professor.
Thesis: A Study of Costs and Returns for Dry-Land Farms in the Triangle Area of Montana with Emphasis on Operator's Labor, Machinery and Land.

ISHAQ YACUB QUTUB, Ph.D.

B.S., Bluffton College; M.A., New York City College.
Sociology. Major Professor: John D. Donoghue, Professor.
Thesis: The Impact of the Rural Thrift and Credit Cooperative Societies on the Traditional Social and Economic Structure of Rural Jordan — A Study of Three Villages.

F. EDWARD RICE, Ph.D.

B.A., Denison University; M.A., Ohio University.
Psychology. Major Professor: Stanley C. Ratner, Professor.
Thesis: Effects of Different Competing Stimuli on Listening Behaviors.

FARLEY POE RICHMOND, Ph.D.

B.F.A., M.A., University of Oklahoma.
Speech. Major Professor: James R. Brandon, Associate Professor.
Thesis: Contemporary English-Language Theatre in India: 1965.

LORIN C. RICHTMEYER, Ph.D.

B.M., Central Michigan University; M.M., Michigan State University.
Music. Major Professor: Leonard V. Falcone, Professor.
Thesis: A Definitive Analysis of Brass Embouchure Abnormalcies Including Recommended Remedial Techniques.

RICHARD LAWRENCE RINEHART, Ed.D.

B.S., Michigan State University; M.S., University of Michigan.
Education. Major Professor: Max S. Smith, Professor.
Thesis: A Compilation and Study of Civil Engineering Technology Curricula in the United States with Analysis of the Forces Bearing on the Curricula.

THOMAS L. ROSZMAN, Ph.D.

B.S., Bowling Green State University; M.S., Michigan State University.
Microbiology and Public Health. Major Professor: Virginia H. Mallman, Assistant Professor.
Thesis: Disc Electrophoretic and Immunodiffusion Studies of Mycobacterial Culture Filtrates.

KAMAL SAID SALEH, Ph.D.

B.S., University of Cairo; M.A., Alexandria University.
Sociology. Major Professor: J. Allan Beegle, Professor.
Thesis: A Comparative Analysis of Patterns of Social Relationships Characterizing Families in Folk-Rural, Rural, and Urban Subcultures in the Same Locale of Michigan.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

- DAVID FRANCIS SAVICKAS, Ph.D. B.A., St. Mary's College; M.S., Michigan State University.
Physics. Major Professor: Richard Schlegel, Professor.
Thesis: Dynamical Effects of Isotropic Radiation.
- ROBERT W. SCHLATER, Ph.D. A.B., University of Nebraska; M.S., Columbia University.
Communication. Major Professor: Verling C. Troidahl, Associate Professor.
Thesis: Effect of Speed of Presentation and Irrelevant Cues on Recall of Television Messages.
- KEITH KENDAL SCHLENDER, Ph.D. B.A., Westmar College; M.S., Michigan State University.
Biochemistry. Major Professor: Harold M. Sell, Professor.
Thesis: Involvement of Protein Synthesis in Auxin-Induced Elongation.
- HUGH JEROME SCOTT, Ed.D. B.S., M.A., Wayne State University.
Education. Major Professor: Donald J. Leu, Professor.
Thesis: A Descriptive Analysis of the Evolving Role of the School-Community Agent in the Detroit Great Cities School Improvement Project.
- RHEA VIVIAN SHIELDS, Ph.D. B.S., Indiana University; M.S., Purdue University.
Home Management. Major Professor: Frances M. Magrabi, Associate Professor.
Thesis: An Exploratory Model of Household Decisionmaking as Applied to Investigation of Decision Situations in a Household Durables Purchasing Context.
- AJIT SINGH, Ph.D. B.V.Sc., M.V.Sc., University of Punjab; M.S., Ohio State University.
Physiology. Major Professor: E. Paul Reineke, Professor.
Thesis: Studies of Thyroid Function in the Chicken.
- BIRENDRA KUMAR SINHA, Ph.D. B.A., M.A., Patna University, India.
Psychology. Major Professor: John E. Jordan, Associate Professor.
Thesis: Maternal Attitudes and Values in Respect to Emotionally Disturbed and Physically Disabled Persons.
- DAVID LYLE SMITH, Ph.D. B.D., M.A., University of Michigan.
Education. Major Professor: Charles A. Blackman, Professor.
Thesis: An Exploratory Study of a Means for Assessing Both Creativity and Conformity of First Graders.
- WILLIAM CLARK SPRAGENS, Ph.D. A.B., M.A., University of Kentucky.
Political Science. Major Professor: Robert Scigliano, Professor.
Thesis: Press Coverage of Congressional Campaigns: A Content Analysis of the 1960 Campaign in Michigan and Tennessee.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

- SARAJANE STROUD, Ph.D. B.A., Kalamazoo College; M.A., Western Michigan University.
Education. Major Professor: Charles A. Blackman, Professor.
Thesis: The Michigan August Working Conference as a Method of Curriculum Development.
- DOUGLAS ALLEN STUART, Ph.D. B.S., M.A., Michigan State University.
Education. Major Professor: Paul L. Dressel, Professor.
Thesis: The Application of Formula and Cost Analysis Procedures to the Budgeting of Academic Departments.
- ROBERT ARTHUR TALLER, Ph.D. B.S., Bowling Green State University; M.S., Michigan State University.
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.
Thesis: Stereochemical Studies of Nitrosamines, Oximes and N-Substituted Hydrazones by Nuclear Magnetic Resonance Spectroscopy.
- JOHN GEORGE THOMPSON, Ph.D. B.S., Central Michigan University; M.Ed., Wayne State University.
Education. Major Professor: Max S. Smith, Professor.
Thesis: A Study of the Information Sources Utilized by Students Enrolling in a Community College for the First Time.
- WILLIAM D. TIDWELL, Ph.D. B.S., Northern Idaho College; M.S., Brigham Young University.
Geology. Major Professor: Aureal T. Cross, Professor.
Thesis: A Lower Pennsylvanian Flora from Utah and its Stratigraphic Significance.
- DONALD HENRY VOSS, Ph.D. A.B., Calvin College; B.D., Evangelical Seminary; M.S., Northern Illinois University.
Education. Major Professor: William W. Farquhar, Professor.
Thesis: Relationship of Environmental Change to Student Performance and Attrition.
- PATRICIA STUMP WALSH, Ph.D. B.A., Oberlin College; M.A., Indiana University.
Speech. Major Professor: Herbert J. Oyer, Professor.
Thesis: The Relationship of Acoustical Environment to the Evaluation of Perceived Loudness of Connected Discourse.
- SANDRA ARDAH WARDEN, Ph.D. B.A., M.A., Michigan State University.
Sociology. Major Professor: Denton Morrison, Assistant Professor.
Thesis: The Leftouts: Disadvantaged Children in Heterogeneous Schools.
- MERVYN ALONZO WARREN, Ph.D. B.A., Oakwood College; M.A., Andrews University; B.D., Seventh-day Adventist Theological Seminary.
Speech. Major Professor: Kenneth G. Hance, Professor.
Thesis: A Rhetorical Study of the Preaching of Dr. Martin Luther King, Jr., Pastor and Pulpit Orator.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — Continued

WALTER ALAN WATMAN, Ph.D.

B.B.A., City College of New York (C.U.N.Y.); M.A., Michigan State University.
Psychology. Major Professor: Arthur A. Seagull, Assistant Professor.
Thesis: The Capacity to Delay Gratification and its Relationship to Perceptual Developmental Level, Ego Strength and Anxiety Level: A Study of Prisoners.

SAMUEL KIRKWOOD YARMAN, Ph.D.

B.A., University of Toledo; M.A., University of Michigan.
Education. Major Professor: Karl T. Hereford, Professor.
Thesis: Graduates of National Universities in Central America.

DIPLOMA FOR ADVANCED GRADUATE STUDIES

RICHARD HOHLY

B.S., University of New Hampshire; M.S., Michigan State University.
Physics. Major Professor: Hugh McManus, Professor.

EDUCATIONAL SPECIALIST DEGREE

SARA SUAT BAYAR, Ed.S.

B.A., Ankara University, Turkey; M.A., Michigan State University.
Education. Major Professor: Buford Steffle, Professor.

DAVID OLORUNFEMI KOLAWOLE, Ed.S.

B.S., Bethel College; M.A., Michigan State University.
Education. Major Professor: Charles A. Blackman, Professor.

JACK C. McCONKEY, Ed.S.

B.A., Alma College; M.A., Michigan State University.
Education. Major Professor: Fred Vescolani, Professor.

KENNETH RICHARD ROBERTS, Ed.S.

B.S., Central Michigan University; M.A., Michigan State University.
Education. Major Professor: Fred Vescolani, Professor.

CHARLES WILLIAM SHINN, Ed.S.

B.S., University of Miami; M.A., University of Wisconsin.
Education. Major Professor: Donald J. Leu, Professor.

EDWIN WARD ST. JOHN, Ed.S.

B.S., M.S., Michigan State University.
Education. Major Professor: Raymond M. Clark, Professor.

SCHOOL FOR ADVANCED GRADUATE STUDIES

Graduated as of September 2, 1966

DOCTORAL DEGREES

JOGINDER N. ANAND, Ph.D.

B.S., University of Delhi; M.S., Michigan State University.
Mechanics. Major Professor: Terry Triffet, Professor.
Thesis: Molecular Forces and Elastic Constants of Polyethylene Single Crystals.

ERNEST ANDRADE, JR., Ph.D.

B.A., M.A., University of Hawaii.
History. Major Professor: Madison Kuhn, Professor.
Thesis: United States Naval Policy in the Disarmament Era, 1921-1937.

ELMER SOINI ANTONEN, Ed.D.

B.S., Ferris Institute; M.A., University of Notre Dame.
Education. Major Professor: Stanley E. Hecker, Professor.
Thesis: The Relationship of Adult Education Program Development in Michigan to State Fiscal Policy.

ROBERT LEE ARMSTRONG, Ph.D.

B.S., Heidelberg College; M.S., Ohio State University.
Biochemistry. Major Professor: John A. Boezi, Assistant Professor.
Thesis: Studies of *Escherichia coli* RNA-DNA Hybrid and Methylation of RNA in T-4 Infected Cells.

LOUIS C. ARRINGTON, Ph.D.

B.S., University of Maryland; M.S., University of California.
Poultry Science. Major Professor: Robert K. Ringer, Professor.
Thesis: Studies of the Pineal Function in Japanese Quail (*Coturnix coturnix japonica*).

OSMAN ABDEL-AZIZ ATALLAH, Ph.D.

B.V.S., Cairo University; M.S., Michigan State University.
Pathology. Major Professor: Stuart D. Sleight, Associate Professor.
Thesis: Experimental Nitrate, Nitrite and Hydroxylamine Toxicosis in the Guinea Pig.

ROGER DANIEL AUGUSTINE, Ed.D.

B.A., M.A., Michigan State University.
Education. Major Professor: Walter F. Johnson, Professor.
Thesis: Persistence and Change in Major Field of Academically Proficient Engineering Students at Three Midwestern Universities.

CLARENCE HIRUM BAGLEY, Ed.D.

B.S., University of Wyoming; M.S., Utah State University.
Education. Major Professor: Buford Stefflre, Professor.
Thesis: An Evaluation of Differential Prediction of Academic Success for Students at Washington State University.

JAMES WILLIAM BARUSHOK, Ph.D.

B.S., M.A., Northwestern University.
Speech. Major Professor: E. C. Reynolds, Associate Professor.
Thesis: A Study of the Membership and Leadership of Queen City Little Theatre.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES Continued

- GLENN DAVID BERKHEIMER, Ed.D. B.S., State Teachers College, Indiana; M.Ed., University of Pittsburgh. Education. Major Professor: T. Wayne Taylor, Professor.
Thesis: An Analysis of the Science Supervisors' Role in the Selection and Use of Science Curriculum Materials.
- JAMES WILLIAM BERRY, JR., Ph.D. B.S., M.S., University of Idaho. Horticulture. Major Professor: Robert L. Carolus, Professor.
Thesis: Factors and Practices Related to the Occurrence of Blotchy Ripening in Tomato.
- WILLIAM MICHAEL BOCKS, Ed.D. A.B., Hope College; M.A., Western Michigan University. Education. Major Professor: Charles A. Blackman, Professor.
Thesis: The Relationship of Teacher Characteristics to Belief Changes Following Introduction of Nonpromotion Research Evidence.
- DANIEL L. BODE, Ph.D. B.S., M.S., Southern Illinois University. Speech. Major Professor: Herbert J. Oyer, Professor.
Thesis: Some Effects of Auditory Training on Speech Discrimination Performance of Hard-of-Hearing Adults.
- BENNY E. BRENT, Ph.D. M.S., Kansas State University. Animal Husbandry. Major Professor: Herman W. Newland, Associate Professor.
Thesis: The Utilization of Various Non-Protein Nitrogen Sources by Rumen Microorganisms in a Continuous Flow *in Vitro* Fermentation System.
- ARTHUR W. CHESTER, Ph.D. B.S., Brooklyn College (C.U.N.Y.). Chemistry. Major Professor: Carl H. Brubaker, Professor.
Thesis: The Electronic and Vibrational Spectra of the μ -Amido-Decamminedicobalt (111) Ion.
- NORMAN BROOKS CLEARY, Ph.D. B.S., M.S., State College of Iowa. Communication Arts. Major Professor: Hideya Kumata, Professor.
Thesis: Cross-Cultural Communication, Powerlessness, Salience and Obeisance of Professional Change Agents.
- GARY LEE CLOUD, Ph.D. B.S., M.S., Michigan Technological University. Mechanics. Major Professor: George E. Mase, Professor.
Thesis: Infrared Photoelasticity; Principles, Methods and Applications.
- SPIROS MINAS CONSTANTINIDES, Ph.D. University Diploma, Thessaloniki University; M.S., Michigan State University. Food Science. Major Professor: Clifford L. Bedford, Professor.
Thesis: Multiple Forms of Plant Phenoloxidase.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES Continued

- PETER M. COSTELLO, Ph.D. A.A., Boston University; B.S., University of Vermont; M.A., University of Connecticut.
Economics. Major Professor: Robert F. Lanzillotti.
Thesis: Patents in the Antibiotic Industry.
- CHARLES CRAPO, Ph.D. B.A., M.A., Michigan State University.
Economics. Major Professor: Charles Larrowe, Professor.
Thesis: The National Union Convention as an Internal Appeal Tribunal.
- CLYDE ALLAN CREGO, JR., Ph.D. B.A., M.A., Montana State University.
Psychology. Major Professor: Bill L. Kell, Professor.
Thesis: A. Pattern Analytic Approach to the Measure of Modes of Expression of Psychological Differentiation.
- WILLIAM GEORGE DARNELL, Ph.D. B.A., University of Buffalo; M.A., Michigan State University
Education. Major Professor: Joseph L. Saupe, Professor.
Thesis: An Empirical Comparison of Tests of the Hypothesis of No Fixed Main Effects in the Mixed Model.
- ADOLPH RICHARD DASLER, Ph.D. A.B., M.A., Western Michigan University.
Physiology. Major Professor: E. Paul Reineke, Professor.
Thesis: Heat Stress and Strain in Men Wearing Impermeable Clothing.
- WALLACE EARL DE PUE, Ph.D. B.M., B.M.E., Capital University; M.A., Ohio State University.
Music. Major Professor: H. Owen Reed, Professor.
Thesis: Concerto for Percussion and Orchestra.
- GERALDINE FLORENCE DOMINIAK, Ph.D. B.S., M.B.A., University of Detroit.
Business Administration (Accounting). Major Professor: Herbert E. Miller, Professor.
Thesis: An Investigation of the Applicability of Methods of Logic to the Analysis of Accounting Problems.
- DAVID A. DRINKWATER, Ph.D. B.S., Boston College; M.B.A., Babson Institute.
Business Administration (Finance). Major Professor: James D. Edwards, Professor.
Thesis: Model Financial Statements — Basis of a Proposed Reimbursement Formula to Control Hospital Costs.
- HENRY FRANCIS EDELHAUSER, Ph.D. B.A., Paterson State College; M.S., Michigan State University.
Physiology. Major Professor: Paul O. Fromm, Professor.
Thesis: A Comparative Study of Water and Sodium Permeability of Lake Trout and Rabbit Corneas.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES Continued

- RALPH AMBROSE ERNST, Ph.D. B.S., M.S., Michigan State University.
Poultry Science. Major Professor: Robert K. Ringer, Professor.
Thesis: The Physiological Effects of Selected Pesticides on the Japanese Quail (*Coturnix coturnix Japonica*) and Embryogenesis of the Domestic Fowl.
- ROBERT WESLEY EVERETT, Ph.D. B.S., National Agricultural College; M.S., Michigan State University.
Dairy. Major Professor: Clinton E. Meadows, Professor.
Thesis: Genetic and Environmental Trends in Michigan Dairy Cattle Milk Production.
- WINSTON PING FAN, Ph.D. Diploma, Chung Chi College; M.A., Michigan State University.
Political Science. Major Professor: Wesley R. Fishel, Professor.
Thesis: The Political Philosophy of K'ang Yu-Wei; A Sociological Study of Religious Syncretism.
- RAYMOND FRANCIS FINN, Ph.D. B.S., University of Minnesota; M.S., Michigan State University.
Forestry. Major Professor: Donald P. White, Professor.
Thesis: Mineral Nutrition of Yellow Poplar (*Liriodendron Tulipifera*, L.)
- DANIEL JAMES FLEISCHHACKER, Ph.D. B.A., B.S., M.A., University of Minnesota.
Speech. Major Professor: E. C. Reynolds, Associate Professor.
Thesis: The Playwright as Propagandist: A Study of the Dramaturgy of Six Propaganda Plays of the American Theatre
- GARY CHALMERS FOX, Ph.D. B.S., Hanover College; M.S., Butler University.
Education. Major Professor: Max S. Smith, Professor.
Thesis: The Need of In-Service Education for Community College Trustees as Perceived by Presidents and Trustees of Community Colleges.
- SALVATORE GAMBARO, Ph.D. B.A., M.A., Michigan State University.
Psychology. Major Professor: Albert I. Rabin, Professor.
Thesis: Blood Pressure Reactions to Expressed and Unexpressed Anger in Low Guilt and High Guilt Subjects.
- DENNIS CRIPPEN GILLILAND, Ph.D. B.A., Kent State University; M.S., Michigan State University.
Statistics. Major Professor: James F. Hannan, Professor.
Thesis: Approximation to Bayes Risk in Sequences of Non-Finite Decision Problems.
- WILLIAM FRANK GLUECK, Ph.D. B.S., M.B.A., Xavier University.
Business Administration (Management). Major Professor: Dalton E. McFarland, Professor.
Thesis: Organization Development Departments in Selected American Firms: An Exploratory Behavioral Analysis

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES Continued

- HARVEY GOLDMAN, Ed.D. B.A., University of Rhode Island; M.A., John Carroll University.
Education. Major Professor: James E. Heald, Associate Professor.
Thesis: A Study of the Teacher-Administrator Relationship and the Influence of Need Patterns.
- JOHN MICHAEL GRABOW, Ed.D. B.S., Roosevelt University; M.S., Southern Illinois University.
Education. Major Professor: Buford Stefflre, Professor.
Thesis: Effects of the Perceptions of the School Diagnostician's Role Upon Consultations.
- JAMES EDDIE GREEN, Ed.D. B.S., Iowa State University; M.A., Michigan State University.
Education. Major Professor: John H. Suehr, Associate Professor.
Thesis: The Relationship Between Dogmatism of Principals and Teachers' Morale in Twelve Selected Secondary Schools in Michigan.
- ROY ELDON HALLADAY, Ed.D. B.S.E., M.A., University of Michigan.
Education. Major Professor: Stanley E. Hecker, Professor.
Thesis: The Effect of Certain Subcultural Background Factors on the Prediction of Grades at the University of Michigan.
- KENNETH L. HARDING, Ph.D. B.S., M.S., Indiana State College.
Education. Major Professor: James W. Costar, Professor.
Thesis: A Comparative Study of Caucasian Male High School Students Who Stay in School and Those Who Drop Out.
- SYED ABDULLAH HASSAN, Ph.D. B.S., Government Institute, Lahore, Pakistan; M.S., Michigan State University.
Agricultural Engineering. Major Professor: Frederick H. Buelow, Professor.
Thesis: An Analytical and Experimental Study of Thermal Spectral Properties of Oxide-Metal Composite Media.
- ROBERT LLOYD HEDLEY, Ed.D. B.S., B.Ed., M.Ed., University of Manitoba.
Education. Major Professor: T. Wayne Taylor, Professor.
Thesis: Student Attitude and Achievement in Science Courses in Manitoba Secondary Schools.
- DONALD WARREN HERB, Ph.D. A.B., Gettysburg College; B.D., Lutheran Theology Seminary.
Education. Major Professor: John E. Jordan, Associate Professor.
Thesis: A Study of the Effect of Personal and Non-Personal Contacts by Religious Workers on the Religious Involvement of Lutheran College Freshmen.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES Continued

REX J. HEWLETT, Ph.D.

B.S., Central Michigan University; M.M., Michigan State University.
Music. Major Professor: Merrell Sherburn, Associate Professor.
Thesis: An Investigation of the Effectiveness of Two Methods of Student Response Using a Taped Program of Practice Materials for Improving Aural Discrimination.

HENRY HOLSTEGE, JR., Ph.D.

B.A., Calvin College; M.A., Michigan State University.
Sociology. Major Professor: James B. McKee, Professor.
Thesis: Conflict and Change in Negro-White Relations in Great Falls.

IRWIN ALAN HOROWITZ, Ph.D.

B.S., M.A., Brooklyn College (C.U.N.Y.).
Psychology. Major Professor: Alfred G. Dietze, Professor.
Thesis: The Personality Correlates of, and the Effect of Reward and Costs on, Socially Responsible Behavior.

DENNIS KARL HUFF, Ph.D.

B.A., M.S., Drake University.
Microbiology and Public Health. Major Professor: David T. Clark, Associate Professor.
Thesis: Cellular Aspects of the Resistance of Chickens to *Eimeria Tenella* Infections.

JAMES FLOYD HUFFMAN, Ph.D.

B.S., M.A., Northwestern University.
Speech. Major Professor: Kenneth G. Hance, Professor.
Thesis: John Hay, The Poetic Trumpet: The Rhetoric of "The Statesman of the Golden Rule".

JOHN CHARLES HURD, Ph.D.

B.A., Brown University; M.A., University of Hawaii.
Speech. Major Professor: E. C. Reynolds, Associate Professor.
Thesis: The Meaning of Movement on the Contemporary American Stage.

JERE TRENT HUTCHESON, Ph.D.

B.M., Stetson University; M.M., Louisiana State University.
Music. Major Professor: H. Owen Reed, Professor.
Thesis: Symphony.

DARRELL GEORGE JONES, Ph.D.

B.A., M.A., Iowa State Teachers College.
Education. Major Professor: Archibald B. Shaw, Professor.
Thesis: An Evaluation of the Socio-Psychological and Socio-Economic Effects of MDTA Training on Trainees in Selected Michigan Programs.

LEROY ELTON KENNEL, Ph.D.

B.A., Goshen College; M.A., State University of Iowa; B.D., Goshen Theological Seminary.
Speech. Major Professor: David C. Ralph, Professor.
Thesis: Communication Constructs in Contemporary American Protestant Preaching, 1940-1965.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES Continued

OSAMU KITANI, Ph.D.

B.A., M.A., University of Tokyo.
Agricultural Engineering. Major Professor: Sverker Persson, Associate Professor.
Thesis: Stress-Strain Relationships for Soil with Variable Lateral Strain.

ALLEN JAY KLINGENBERG, Ph.D.

B.A., M.A., University of Michigan.
Education. Major Professor: Troy L. Stearns, Professor.
Thesis: A Study of Selected Administrative Behaviors Among Administrators from Innovative and Non-Innovative Public School Districts.

LENNIS MORELAND KNIGHTON, Ph.D.

B.A., M.B.A., Brigham Young University.
Business Administration (Accounting). Major Professor: James D. Edwards, Professor.
Thesis: The Performance Post Audit in State Government: An Analysis of Its Nature, Its Purpose, and Its Possibility.

CONSTANTINE KONSTANS, Ph.D.

B.M., Indiana University; M.A., Ohio State University.
Business Administration (Accounting). Major Professor: Gardner M. Jones, Professor.
Thesis: The Effects of Data Processing Service Bureaus on the Practice of Public Accounting.

KARL ROBERT KRAMER, Ed.D.

B.S., M.S., New York University.
Education. Major Professor: Troy L. Stearns, Professor.
Thesis: The Effect of the Attitudes of Prospective Teachers on the Utilization of Professional Laboratory Experiences for the Development of Insight About, and a Commitment to, Teaching.

ARNOLD A. KURTZ, Ph.D.

B.Th., Walla Walla College; M.A., Andrews University.
Speech. Major Professor: Kenneth G. Hance, Professor.
Thesis: A Rhetorical Analysis of the Preaching of Dr. Clarence E. McCartney, Twentieth Century Exponent of the Traditional Orthodoxy.

CHEN HUI LEE, Ph.D.

B.S., National Taiwan University, Free China; M.S., Michigan State University.
Forestry. Major Professor: Jonathan W. Wright, Professor.
Thesis: Anatomical Characters and Chemical Composition of European Black Pine Needles as Influenced by Geographic Origins and Nitrogen Fertilization.

LOUIS G. LIPPMAN, Ph.D.

B.A., Stanford University; M.A., Michigan State University.
Psychology. Major Professor: M. Ray Denny, Professor.
Thesis: Cue Utilization in Serial Learning.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES Continued

TAHA HASSAN HUSSEIN
MAHMOUD, Ph.D.

B.S., University of Alexandria; M.S., Michigan State University.
Poultry Science. Major Professor: Theo H. Coleman, Professor.
Thesis: Growth and Reproduction of Bobwhite Quail Raised in Confinement.

MERRIT LEE MALLORY, Ph.D.

B.S., Michigan State University.
Physics. Major Professor: Henry G. Blosser, Professor.
Thesis: Phase Space Density Studies on Cyclotron Ion Sources.

MARGARET ANN MCKENNA, Ph.D.

B.S., Emmanuel College; Ed.M., Boston University.
Education. Major Professor: Helen H. Green, Professor.
Thesis: An Experiment to Determine the Effect of the Early Introduction of New-Matter Dictation in the Teaching of Beginning Shorthand to College Students.

PETER ANTHONY MCKINNON, Ph.D.

B.A., M.A., Michigan State University.
History. Major Professor: Vernon L. Lidtke, Associate Professor.
Thesis: Geoffrey Dawson, *The Times* and the Formation of the British Appeasement Policy to 1936.

JAMES LEO McNALLY, Ph.D.

B.S., M.S., State University of New York.
Education. Major Professor: Edward B. Blackman, Professor.
Thesis: The Instructional Role of the Graduate Teaching Assistant at Michigan State University.

JOSEPH MEZZANO, JR., Ed.D.

B.S., Wisconsin State University — Superior; M.A., Michigan State University.
Education. Major Professor: Norman Kagan, Associate Professor.
Thesis: Group Counseling with Low-Motivated Male High School Students — Comparative Effects of Two Uses of Counselor Time.

JAMES CARLTON MITTLER, Ph.D.

B.S., University of New Mexico; M.S., University of Illinois.
Physiology. Major Professor: Joseph Meites, Professor.
Thesis: Studies on the Hypothalamic Regulation of Follicle-Stimulating Hormone Release.

CHARLES C. MODESITT, Ph.D.

B.S., M.S., Indiana State University.
Education. Major Professor: George R. Myers, Professor.
Thesis: A Study of the Duties Performed by Medical Assistants

FRANK DAVIS MORRISON, Ph.D.

B.S., M.S., University of Idaho.
Horticulture. Major Professor: Stanley K. Ries, Professor.
Thesis: Cultural and Environmental Parameters for Mechanically Harvested Cucumbers.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES Continued

DONALD HULL NICKERSON, Ed.D.

A.B., Calvin College; M.A., University of Michigan.
Education. Major Professor: James David Hoffman, Associate Professor.

Thesis: A Survey of the Distribution of Personality Types and Related Interests Among Competent Teachers in Advantaged and Disadvantaged Settings.

THOMAS EUGENE NIEDRINGHAUS, Ph.D.

A.B., Kalamazoo College; M.A., Michigan State University.
Geography. Major Professor: Dieter H. Brunnschweiler, Professor.
Thesis: A Climatography of Michigan.

KAREN MARIE NIELSEN, Ph.D.

B.A., M.A., Michigan State University.
Speech. Major Professor: Herbert J. Oyer, Professor.
Thesis: The Effect of Redundancy on the Visual Recognition of Frequently Employed Spoken Words.

RICHARD ALLAN NORMAN, D.B.A.

B.S., Franklin and Marshall College.
Business Administration (Personnel). Major Professor: Dalton E. McFarland, Professor.
Thesis: An Experiment in a Phenomenological Approach to the Study of Business Decision-Making.

JAMES FREDERICK OLMSTED, Ph.D.

B.S., Syracuse University; M.S., Michigan State University.
Geology. Major Professor: Justin Zinn, Professor.
Thesis: Petrology of a Differentiated Anorthositic Intrusion in Northwestern Wisconsin.

RAYBURN ELLIS PARKER, Ph.D.

B.S., Mississippi State University; M.S., Texas A. & M. University.
Agricultural Engineering. Major Professor: Bill A. Stout, Professor.
Thesis: Design Parameters for Hydrocooling Cherries.

CURTIS LeVERNE PATTON, Ph.D.

B.S., Fisk University; M.S., Michigan State University.
Microbiology and Public Health. Major Professor: David T. Clark, Associate Professor.
Thesis: Resistance of Rats to *Trypanosoma lewisi* (Kent, 1880).

GORDON WILBUR PAUL, Ph.D.

B.S., University of Tulsa.
Business Administration (Marketing). Major Professor: Charles C. Slater, Professor.
Thesis: An Interactional Approach to Investigating Food Buying Behavior.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES Continued

- MAURICE D. PELTON, Ed.D. B.M., M.A., Michigan State University.
Education. Major Professor: Herbert C. Rudman, Professor.
Thesis: A National Analysis of Education Quality as Measured by the *Educational Characteristics Criterion* (ECC), Achievement, and Selected Cost Factors.
- ALAN R. PUTNAM, Ph.D. B.S., University of New Hampshire; M.S., Michigan State University.
Horticulture. Major Professor: Stanley K. Ries, Professor.
Thesis: The Phytotoxicity and Mechanisms of Action of Herbicide and Herbicide-Adjuvant Combinations on Quackgrass. (*Agropyron Repens* (L.) Beauv.)
- JAMES ALTON RAY, Ph.D. D.V.M., Ohio State University; M.S., Michigan State University.
Pathology. Major Professor: C. Cleon Morrill, Professor.
Thesis: Disease in Swine Resulting from Experimental Administration of *Mycobacterium Bovis*, *Mycobacterium Avium* or Group-111 Mycobacteria.
- ELDON ALVIN REILING, Ph.D. B.S., Western Illinois University; M.S., Michigan State University.
Agricultural Economics. Major Professor: Lester V. Manderscheid, Associate Professor.
Thesis: Demand Analysis for Commercial Fertilizer in the United States, by States.
- RONALD LUTHER REISBIG, Ph.D. B.S., Michigan State University; M.S., University of Washington.
Mechanical Engineering. Major Professor: Joseph E. Lay, Professor.
Thesis: A Study of Dropwise Condensation.
- SOLOMON RUNDBAKEN, Ph.D. B.F.A., M.E., University of Georgia.
Speech. Major Professor: Herbert J. Oyer, Professor.
Thesis: Bone Conduction/Air Conduction Cancellation as a Function of Intensity and Frequency Manipulation.
- WILLIAM GEORGE SCHAAR, JR., Ph.D. B.S., M.A., Michigan State University.
Education. Major Professor: Gregory A. Miller, Associate Professor.
Thesis: Changes in Academic Success and Self-Concept of Low Achieving Community College Freshmen.
- DANIEL MYRON SEIFER, Ph.D. B.A., University of Chicago; M.A., Michigan State University.
Business Administration (Management). Major Professor: Dalton E. McFarland, Professor.
Thesis: Relationships of Selected Personal Characteristics to Income Achievement of College Graduates.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES Continued

- RAGHU NANDAN SINGH, Ph.D. B.A., M.A., University of Allahabad; M.A., University of Agra. Education. Major Professor: Cole S. Brembeck, Professor. Thesis: The Role of the Federal Government in Indian Higher Education Since Independence, 1947.
- JEROME MARTIN STAM, Ph.D. B.S., University of Nebraska; M.S., Michigan State University. Agricultural Economics. Major Professor: Lester V. Manderscheid, Associate Professor. Thesis: An Application of Macro-Economic Analysis to the Demand for Human Skills and Knowledge.
- JOHN EDWIN STOECKEL, Ph.D. B.A., Eastern Michigan University; M.A., Michigan State University. Sociology. Major Professor: J. Allan Beegle, Professor. Thesis: The Impact of Metropolitan Dominance Upon the Status Structure and Status Consistency of Rural-Farm and Urban Population.
- CHARLES IRVIN SWITZER, Ph.D. B.S., Central Michigan University; M.A., Michigan State University. English. Major Professor: Russel B. Nye, Professor. Thesis: The Political, Philosophical, and Religious Thought of Dr. Benjamin Rush.
- MADELEINE BISE THERRIEN, Ph.D. M.A., University of Paris. French, Language and Literature. Major Professor: Herbert Josephs, Assistant Professor. Thesis: Une Analyse Des Trois Personnages Principaux Des *Liaisons Dangereuses*.
- BOUNNONG THIPPHAWONG, Ph.D. B.S., National Taiwan University; M.S., University of Hawaii. Education. Major Professor: Guy E. Timmons, Professor. Thesis: An Analysis of Social and Educational Systems of Laos in View of Establishing Teacher Education in Agriculture for Elementary School Teachers.
- JOHN MICHAEL THOMPSON, Ph.D. B.A., University of Sheffield; M.A., Michigan State University. Comparative Literature. Major Professor: Herbert Weisinger, Professor. Thesis: Translations from René Char's *La Parole en Archipel* and Other Works, with an Introductory Essay.
- CLIFFORD EARL TIEDEMANN, Ph.D. B.A., University of Illinois; M.A., University of Oklahoma. Geography. Major Professor: Donald A. Blome, Assistant Professor. Thesis: Two Models for the Inferential Analysis of Central Place Patterns.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES Continued

- RICHARD CHARLES TOWNE, Ph.D. B.S., State University of New York; M.S., Canisius College. Education. Major Professor: William K. Durr, Professor. Thesis: Social Psychological Change Associated with Special Class Placement for Educable Mentally Retarded Students.
- ROBERT LEWIS TREZISE, Ph.D. B.S., Northwestern University; M.A., Michigan State University. Education. Major Professor: Elizabeth M. Drews, Professor. Thesis: A Descriptive Study of the Life Styles of a Group of Creative Adolescents.
- LLOYD ARTHUR TRINKLEIN, Ph.D. B.A., Central Michigan University; M.A., University of Michigan. Education. Major Professor: T. Wayne Taylor, Professor. Thesis: A Comparative Study of the Effectiveness of Using a Full Film and Short Format Films to Teach Chemistry.
- CHARLES WRIGHT TUCKER, JR., Ph.D. A.B., Whittier College; M.A., Michigan State University. Sociology. Major Professor: William A. Faunce, Professor. Thesis: Occupational Evaluation and Self Identification.
- JAMES ARTHUR TWEEDY, Ph.D. B.S., Southern Illinois University; M.S., Michigan State University. Horticulture. Major Professor: Stanley K. Ries, Professor. Thesis: The Influence of Simazine on Growth and Nitrogen Metabolism of Plants.
- JAMES WOODSON VANEVRA, Ph.D. B.A., Valparaiso University; M.A., Michigan State University. Philosophy. Major Professor: Henry S. Leonard, Professor. Thesis: A History of Some Aspects of the Theory of Logic, 1850-Present.
- JUDITH ANN VANEVRA, Ph.D. B.A., Valparaiso University; M.A., Bowling Green State University. Psychology. Major Professor: Lucy R. Ferguson, Associate Professor. Thesis: Relationship Between Level of Self-Esteem and Manifestations of Conscience Development in Fifth-Graders.
- PAUL ALBERT VOLZ, Ph.D. B.A., Heidelberg College; M.S., Michigan State University. Botany and Plant Pathology. Major Professor: Everett S. Beneke, Professor. Thesis: In Vitro Studies on Species and Mutants of *Agaricus*, *Cantharellus*, *Lepista*, *Pleurotus*, and *Volvariella*.
- FRANK LOUIS VOORHEIS, Ph.D. B.S., M.B.A., Wayne State University. Business Administration (Finance). Major Professor: Adolph E. Grunewald, Professor. Thesis: "Investment Policy and Performance of Bank Administered Pooled Equity Funds for Employee Benefit Plans".

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES Continued

PHILIP FREDRICK WARNKEN, Ph.D.

B.S., M.S., Kansas State University.
Agricultural Economics. Major Professor: Lawrence W. Witt, Professor.
Thesis: Macro-Economic Impacts of Public Law 480, Title I in Colombia.

JEROME CHARLES WEBER, Ph.D.

B.S., Brooklyn College (C.U.N.Y.); M.A., Michigan State University.
Education. Major Professor: Wayne Van Huss, Professor.
Thesis: The Effects of Differing Pre-Puberty Exercise Programs on Selected Measures of Growth in the Male Albino Rat.

IRA PHILIP WEINSTEIN, Ph.D.

B.B.A., City College of New York (C.U.N.Y.); M.A., Michigan State University.
Psychology. Major Professor: Bertram P. Karon, Associate Professor.
Thesis: The Recall of Memories as a Function of Repressing and Sensitizing Defenses and Body Position.

DONALD W. WILSON, Ph.D.

B.A., Southern Missionary College; M.A., Andrews University.
Speech. Major Professor: Kenneth G. Hance, Professor.
Thesis: A Rhetorical Study of the Preaching of Pastor George Vandeman.

EDWARD JOSEPH WOLFF, Ph.D.

B.A., M.A., University of Detroit.
English. Major Professor: William Whallon, Associate Professor.
Thesis: Chaucer's Normalized Diction: A Comparison of Recurring Phrases in Chaucer and *Beowulf* to Determine the Validity of the Magoun Thesis.

GEORGE ANDREW WOLFF, Ph.D.

B.A., M.A., Washington University.
English. Major Professor: Herbert Weisinger, Professor.
Thesis: The Production of Time, Themes and Images in the Poetry of Theodore Roethke.

HAROLD EUGENE WRIGHT, Ph.D.

B.S., University of Dayton; M.S., University of Cincinnati.
Mechanics. Major Professor: Lawrence E. Malvern, Professor.
Thesis: An Experimental Study of the Boundary-Layer Characteristics for Two-Phase (Gas-Liquid Spray) Flow Over a Circular Cylinder.

DIPLOMA FOR ADVANCED GRADUATE STUDIES

Graduated as of September 2, 1966

GRACE LORETTA MURRAY

B.A., M.S., University of Rochester.
Microbiology and Public Health. Major Professor: Walter L. Mallmann, Professor.

SCHOOL FOR ADVANCED GRADUATE STUDIES

EDUCATIONAL SPECIALIST DEGREE

G. P. BAILEY, Ed.S.	B.S., Michigan State University; M.A., Western Michigan University. Education. Major Professor: James E. Heald, Associate Professor.
ALBERTA RUTH BALAS, Ed.S.	A.B., University of Michigan; M.A., Michigan State University. Education. Major Professor: Byron H. VanRoekel, Professor.
FREDERICK CASEY BRUHN, Ed.S.	B.S., Western Michigan University; M.A., Michigan State University. Education. Major Professor: Donald F. Sellin, Assistant Professor.
WILLIAM JOSEPH CONDON, Ed.S.	A.B., Western Michigan University; M.A., University of Michigan. Education. Major Professor: James E. Heald, Associate Professor.
MARGARET WATTS GITLIN, Ed.S.	B.S., Ohio State University; M.A., Wayne State University. Education. Major Professor: John E. Jordan, Associate Professor.
MARIGENE GOLLER, Ed.S.	B.S., National College of Education; M.S., Whittier College. Education. Major Professor: Ray G. Harper, Assistant Professor.
CHARLES EDWARD HALLAWELL, Ed.S.	B.A., M.A., Ball State University. Education. Major Professor: Peter G. Haines, Professor.
DAVID FREGEAU HANSON, Ed.S.	A.B., University of Michigan; M.A., Michigan State University. Education. Major Professor: Donald Leu, Professor.
EDWARD RICHARD HINTZ, Ed.S.	B.S., Eastern Michigan University; M.A., Michigan State University. Education. Major Professor: Fred Vescolani, Professor.
ELEANOR WANTY MULLIKIN, Ed.S.	B.S., M.A., Michigan State University. Education. Major Professor: Peter G. Haines, Professor.
ROGER DANIEL OBERG, Ed.S.	B.S., M.A., Michigan State University. Education. Major Professor: Fred Vescolani, Professor.
ELEANORE LUCILLE PEDERSON, Ed.S.	B.S., Central Michigan University; M.A., Michigan State University. Education. Major Professor: Herbert C. Rudman, Professor.
HARRY BENNETT RANDALL, Ed.S.	B.S., Kansas State Teachers College; M.S., University of Southern California. Education. Major Professor: Horace C. Hartsell, Professor.
LLOYD GEORGE SWIERENGA, Ed.S.	B.S., M.A., Western Michigan University. Education. Major Professor: John Suehr, Assistant Professor.
PARNELL LESLIE TARDY, Ed.S.	A.B., M.A., Western Michigan University. Education. Major Professor: Fred Vescolani, Professor.

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

THOMAS K. COWDEN, DEAN

DEGREE OF
MASTER
OF SCIENCE

Agricultural Economics
Kenneth Lee Johnson
Ernesto Saturnino Liboreiro
Frank Knox McCalla
Michael Dean Pridgeon

Agricultural Extension
Johnson Avbiniovurue Ekpere

Agricultural Mechanization
Rafiq Ahmad

Animal Husbandry
Roger Henry Wellenreiter

Biochemistry
Patricia Ann Gawarecki
James Ray Hunsley
Irene Emily Kochevar
Hernan Nunez-Arellano
Suparb Pusobha

*Cooperative Extension
Education*
George Frederic Jennings
Barbara A. Judy
Donald James Walker

Crop Science
Larry Keith Binning
Tso-Cheng Chang

Jerry Dennis Doll
Oghenetsavbuko Todo Edje
James Alan Fischer

Dairy
Richard Stanley Austin

Fisheries and Wildlife
Gary Howard Heinz

Food Science
Duane Elmer Koch

Forest Products
Paul D. Bobb
Donald David Drone
Pentti Tapani Hakkila
Palle Jacobsen
David Pegaz
Richard Fred Witte

Forestry
Gordon Hughston Lewis
John Beatty Mathies

Horticulture
Pantazis Alexandros Gerakis
Jon Arthur Mead
Daniel Clement Milbocker
Hamed Ebrahim Mosokar
Dusit Siripong

Poultry Science
Howard Edwin Wildey

Resource Development
Anthony Francis Abar
Nelson Ernest Ball
Richard Egbert Cary
Carl Bernard DeKay
Harold Freier
Kerry Robert Ludlow Joy
Richard Phillip Kelley
Edward Allison Kirkby
John Raymond Suffron

Soil Science
Lawrence Alton Rudgers
Chwan Chau Wang
Lo-Tung Wang
Robert Michael Weaver
Ming-Huei Wu

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF ENGINEERING

Agricultural Engineering
Zawdu Felleke
Arne Hilmersen
Toshimichi Ikeda
Moedjijarto Pratomo
Robert Harry Shaw
Stephen Arthur Weller
Soleiman Zareian

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

DEGREE OF BACHELOR OF SCIENCE

Agricultural Biochemistry
Geoffrey Ihesiaba Ahunanya

Agricultural Business
George Arthur Zinkil, Jr.

Agricultural Communications
James Jay Zolczer

Agricultural Economics
*Thomas Sherwood Benson
James Warren Cross
*Thomas A. Hile
Gerald Otis Jessup

Agricultural Mechanization
Ibrahim Abubakar Danladi
Dutsin-Ma
Edwin William Haenni
*David Alfred Payeur
Larry Allen Piotter
Raymond George Sweeney

Building Construction
Ronald Russell Hansen
Dennis Michael Rog

Crop Science
Bitrus Davou Tujwe Datiri
*Julius Alani Babatunde
Oyedokun

Fisheries and Wildlife
Bruce William Avery
Jay Rufus Bellinger
John Lapine Griffin, Jr.
James Hopkins Raber
Ronald Edward Sanders
Thomas Darrell Yonkers
John Joseph Zima, Jr.

Food Science
Ronald Samuel Quon

Forestry
Ernest Edward Abel
David Louis Feiger
Wayne Harvey Gertz
Norman Kasmauskis
David Floyd Knight
Richard Louis Larsen
Lawrence Robert Lindner
Harry Morton Newlon
James Joseph Rau
Noah Quinten Speer
Lawrence James Thoney

Horticultural Management
Gordon Allen DeVries
Charles John Fiore

Mobile Homes
Thomas Owen Mitchel

Packaging
Gerry Lee Ackley
Donald Ralph Avolio
Stanley Melvin Blumberg
Raymond Anthony Bourque
J. Edward Bradley
Robert Kenneth Burgess
Dennis Michael Drummond
Bernard Eugene Fedewa
Robert Emil Ferguson
Donald Albert Funk
Paul D. Grebinar
John Harland Hansen
Robert Gilmore Harshaw
Lewis Edison Hayes
James Allen Healey
Douglas Harry Hoxie
Terrance William Kryger
James Eugene Marterella

Ronald Gene McManus
Douglas Edward Meyers
Philip Anthony Napolitano
Dennis Lee Radke
Wilfred Eugene Riddell
Martin Earl Roach
William LeRoy Shroyer
William Joseph Somerville
Joseph Ernest Szalay
Hal Coburn Wade, Jr.

Park Management
Gary Lynn Gidley
Philip K. McComb
Robert Emil Pfister
Gerard Albert Verstraete
James Gordon Weston

*Pomology and Vegetable
Production*
John Ernest Mackey, Jr.
*Martin James Wiles, Jr.

Soil Science
Emmanuel Ige Olomu

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Agricultural Education
Robert Neal Curry
Lynn Dale Gould
James Edward Jelinek
**Jerry Walter Kabat
Roger Alan Post
Leslie Howard Smith
Burton J. Stanley
H**Alden James Wyma

Park Management
Frank James Bricker

H Honors College
* With Honor
** With High Honor

COLLEGE OF ENGINEERING

JOHN D. RYDER, DEAN

DEGREE OF MASTER OF SCIENCE	<i>Chemical Engineering</i> Devendra Mehta Kirit G. Patel	<i>Electrical Engineering</i> Hay Armen Boyadjian Lloyd Duane Corliss Nadim Fawzl Haddad Glenn Edward Lang John Gilman Miles Chittur Krishnier Narendra H. C. Tien	<i>Mechanics</i> Lynn Charles Lewis
	<i>Civil Engineering</i> Harasiddhiprasad Gajanan Bhatt Frederick T. Eyer Bahram Salagegheh		<i>Metallurgy</i> James Carl Baker
DEGREE OF BACHELOR OF SCIENCE	<i>Chemical Engineering</i> *Carl Kennedy Branson Jack Wright Blackmer, Jr. Howard Dale Duckman	<i>Mechanical Engineering</i> Farouk Abbas Al-Janabi H*Lawrence Leland Bauer Warren Charles Brown James Louis Celentino *Lawrence Earl Crosby Walter Daniel Dugopolski Turgud Alev Enustun Gary Lee Erber Mark Wayne Hunt H*Wayne Albert Luchenbill John Thomas Merrill Alvaro Obligado George Harvey Ostrander Harold Arthur Slaughter David Franklin Spalding Melvin Arthur St. John, Jr. *Jack Ford Wheeler *Lester Alton Zischke	<i>Metallurgy</i> Gary Joseph Allen *Frederick Willis Crowley *Roy Carl Lueth
	<i>Civil Engineering</i> Henry John Brolick *Leroy Ray Dell		DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF AGRICULTURE <i>Agricultural Engineering</i> Leland Chace Fitzpatrick Clifford E. Stannebein
	<i>Electrical Engineering</i> James Nelson Clark James Alan Rose Terril John Steichen Robert Tony Temmerman Ronald Janes Valade		

H Honors College
* With Honor
** With High Honor

COLLEGE OF HOME ECONOMICS

JEANETTE A. LEE, DEAN

DEGREE OF MASTER OF ARTS	<i>Child Development</i> LaDessa Rogers Smelcer	<i>Education for Home and Family Living</i> Shirley Jacquelyn Brackett Carol Ann Nizlek Elaine Diana Roccapiore Pauline Buss Schaffer Carole Anne Suydam Noël Snouffer Vertrees	<i>Home Management</i> Neta Sue Melton <i>Related Arts</i> Faye Lou Brasington Anita Marie Fratianne <i>Textiles and Clothing</i> Gwendolyn Lucille Daley
DEGREE OF MASTER OF SCIENCE	<i>General Home Economics</i> Julia K. Ramtu	<i>Institutional Administration</i> Wilma Butcher Porter Sister Mary Rosita Schiller, R.S.M. Nelida Simons	<i>Nutrition</i> Rosemary Louise Blyth
DEGREE OF BACHELOR OF SCIENCE	<i>Dietetics</i> Lynden Arlienne Webley <i>General Home Economics</i> Harriett Elizabeth Hendrickson Daylene Weller Lumis *Sandra Lynn Smith	<i>Retailing of Textiles and Clothing</i> Carole Lynn Berg Carol Ann Domke Karen Elaine Peterson DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION <i>Child Development and Teaching</i> Eleanor Kay Birkland Mary Louise Boyland Barbara Ann Brisse Barbara Jewell Mowers Margaret Jane Peggs	<i>Home Economics Teaching</i> *Barbara Elaine Baldwin Mary Diane Henkel Barbara Lee Brown Susan Scott Coman Deanna Jo Irelan Linda Grace Murphy Anita Marie Osborn Marifrances Rogers Marilyn Ruth Stempihar
	<i>Interior Design</i> Nancy Shaw Cramer Mary Catherine Haan Heather May Mueller		

H Honors College
* With Honor
** With High Honor

COLLEGE OF VETERINARY MEDICINE

WILLIS W. ARMISTEAD, DEAN

DEGREE OF
MASTER
OF SCIENCE

Anatomy
Richard Edward Bostrom
Kenneth Robert Holmes

*Microbiology and
Public Health*
Daniel Joseph O'Reilly

Pathology
Bruce Robert Christie
Dibakar Panigrahi
Shirley Mae Selden
Mahlon Wesley Vorhies

*Veterinary Surgery and
Medicine*
Donald L. Buelke

DEGREE OF
BACHELOR
OF SCIENCE

Medical Technology
Louella Jane Nelson
Ellen Newman

Veterinary Medicine
Douglas James Brooks
H* Thomas Clark Candee
H* Susan Laureda Coulter
James George Fordyce
H** William James Kelch
Richard K. Loeffler

Albert James Malouin
Michael Thomas Powers
** Susan Marjorie Rabaut
Richard Paul Reid
Henry Matthew Vaupel
* Robert Douglas Whipple

H Honors College
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** With High Honor

COLLEGE OF BUSINESS

ALFRED L. SEELYE, DEAN

DEGREE OF MASTER OF ARTS

Economics

E. Richard Bourdon, Jr.
Tulio Alberto Ceconi
Kenneth Ivan Hansen
Edward Henry Heinze

Thomas Chagai Lowinger
Hugh William McNeil
Jon Philip Messner

Ronald Gene Robertson
Augustus James Rogers, III
Kenneth Bishop Stanley

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

DEGREE OF MASTER OF BUSINESS ADMINISTRATION

Steven Verne Bayles
Frederick George Bean
Jerome Anthony Bielawski
Robert Ray Carter
Vasant Gordhandas Choksey
Iain Thornton Christie
Stewart Michael Cohen
Jose Peiro Da Silva Carvalho
Wayne Daniel De Armon
Warren Harvey Dunnington
Etienne Jacques Dupuis
William Louis Etienne
Donald George Feetham
Kim F. Floyd
Charles Eugene Garrison
Russell Theodore Gingras
Charles Harry Halvorson
David Dean Harris
William Franklin Hatcher, Jr.
Tülün Zehra Haznedaroglu
Keith Jon Hess

Arthur Ticknor Huey
Ross William Keller
Thomas Everett Korpi, Jr.
Andrejs Kruglitis
Frederick Robert Lampe
Edward Alan Lazarus
Donald John Leone
Theodore Charles Linder
Gary Richard Lytle
Dattatray Nilkanth Manerikar
Richard G. Marquardt
Nelson Joseph McMahon, Jr.
Harry Taylor Merrill
Philip Granville Mitchell
Ronaldo Fróes Monteiro
George Herbert Moore, III
John Scot Mueller
Brian Minard Mumaw
Roberto Pires Pacheco
George Rowland Page

Harold Leroy Patrick
Anthony Thomas Piernick
Charles Edward Reeves
Asaph Reznik
Michael Thomas Rossman
Frank Lawrence Russ
Frederick Cooley Seeley
Bhruhu Mohanlal Shah
David Val Spangler
John Claude Speicher
Richard Frederick Sundstrom
Dennis Paul Swanson
Carl Torben Thomsen
Thomas Joseph Turcotte
Harish Laxminarayan Verma
William Lee Waanders
Gregory Allan Wabeke
G. Daniel Whittaker
Yuzo Yagi
Lawrence Jay Zimmerman

DEGREE OF BACHELOR OF ARTS

Accounting

David Lee Basset
William Charles Brown
Robert Earl Burg
Jeffrey Scott Butzbach
Richard Lee Cypher
Donald George Danner
James Howard Dean
Patrick Joseph Finerty
Daniel William Foy, Jr.
Richard Dennis Guest
James Garratt Gunter
Sidney Keith Koontz
Jens Karel Kubicek
Charles Melvin Lindgren
Richard Edward Luxon

Ronald Virgil Marks
Francis Edward Martin
Michael John Miller
Clayton Susumu Nakama
Saundra Lee Nied
David Michael Petruska
Daniel John Phillips
**James Howard Piltz
H**Russell Charles Pletcher
Joseph Thomas Pleva
Daniel Gerard Popma
Donald Edward Rickenbaugh
*Dan F. Scupin
Kenneth Thomas Silver
Terry Lee Streeter
Samuel Charles Supernaw

*Alvin Duane Swanson
*Wesley Dale VanHouten
Thomas George Webber
H*Thomas C. Willson

Economics

*Robert Charles Brown
Jon Thomas Cordray
Kenneth Arthur Engle
Stanley Robert Lanka
Walter Joseph Murawsky
Ronald Blissett Roland
Douglas Leslie Tinsler
Peter Arden White
Douglas Turner Wolterding

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COLLEGE OF BUSINESS

DEGREE OF BACHELOR OF ARTS

Executive Secretarial Administration

*Trena Sue Ambrosion
Nancy Niemann Barrows
Linda S. Lonning

Financial Administration

*James Cason Featherston
Robert John Gilmore
Michael Kennedy Haskett
Harley Neal Hill
James Theodorre Mady
James Manford Norwood
William LaVere Townsend

Food Marketing

Samuel Lee Alexander
Carl A. Curchoe

General Business Administration

Charles Raymond Alstrom
Gary Louis Anderson
Robert James Brook
Patrick John Courter
Patrick Demas Cromley
Otwell John Derr
Frederick Allen Devereux
John Joseph Devine
Thomas Michael Doil
H** David Joseph Dunn
Gary Wayne Durow
Patrick Joseph Elmquest
Keith Edward Evans
Thomas Edgar Franklin
Todd Lionel Glascock
Gary Roger Grenzke
Gerald Lynn Hayes
Thomas Patrick Herman
Bruce Lesslie Hill
Chris Clark Jording
John Joseph Kemler
*Jay Patrick Knapp
Nickolas Krat
Sharon H. Kuchik
Mike Joe Lynd
Bolton Morrison, Jr.
James Lorne Patterson
Thomas Paul Phipps
Edward Francis Ryan
Paul Raymond Sinelli
Thomas Paul Sukenik
Byron Charles Swerdfeger

Terry D. Vander Veen
*David John Van Peursema
*Warren David Williams

General Marketing

Robert Franklin Baratta
Ronald Paul Birtwistle
Jerry D. Campbell
William Brodie Conklin
Richard Lawrence Cramer
Herbert Frank Ewert
Jeffrey Loren Greene
William Julius Heideman
Edward Michael Kulesza
John Wesley Leeth
J. Scott McLinn
David Jon Mitchell
John Carl Molter
John Lee Osburn
David Joel Parker
Terry Bernard Riley
*William Roger Rohn
Roger Lee Staton
James Rockwell Stoppert
Stuart James Travis
James C. Westenbroek
Michael Gustav Young
Judith Ann Ziegler

Hotel, Motel and Club Management

Arthur Stephan Averbook
James Edward Bookstaff
Robert Lee Hoadley
Christopher Crombie Howard
Frederick John Kleisner
George Julian Lysak
Douglas Paul Miner
Frederic Huston Oram
Gordon Lee Rockwell
Rita Anne Wood

Hotel, Restaurant and Institutional Management

Mark Charles Arnold
Santiago Badia
James Carl Bergren
Thomas French Clink
Charles White Cooper
Terry P. Doyle
*Raymon Keith Duenke
William Gilbert Eppel
Donald Edward Ganim
Dan Hunter Mathews, Jr.

Joseph Irvin Mulheim
John David Rohs
William Richard Ross
James Melvyn Stackpoole
Charles Daniel Tower
George Vindigni
Dennis Wayne Wagenschutz
Richard Conwell Wiggers

Industrial Administration

Roger Jay Bolhouse
Russell Maveety
Carpenter, Jr.
Robert John Flemming
Frank John Haluch, Jr.
James Kenneth McGuire
Jerry Emerson Pratt
Richard Harold Rice
*Lawrence Herman Roy Sias
Michael James Swarthout

Institutional and Hospital Management

Yale Murray Wolk

Personnel Administration

Tom Dexter Chirgwin
Gordon Karl Hassler
David John Stafford

Restaurant Management

John Robert Shaw, III

Risk and Insurance

Edward T. Shallow

Transportation Administration

Harry Joseph Ignatowski

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Karen Sue Manecke
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Education

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Yousef Mostafa Alkadi
Joseph William Ames
Alan Frederick Behnke
Wilbur Bernard Belcher
Daniel Bruce Berch
Shirley May Bingham
Diana Dale Boudeman
Robert Lee Brandt, Jr.
Ronald Alan Bricker
Douglas Harold Brockhaus
Theodore Lincoln Brooks, Jr.
Harry James Brunet
Marilee Carroll
Bernadette Roberts Chapoton
Patricia Ann Clifford
Robert William Cole
Donald Edward Lee Davis
Daniel Hyle Dickinson
Mary Ellen Dockrill
Darrell D. Elders
Gary William Engel
Deborah Klopp Finger
Alice Elizabeth Fitzgerald
Jane Dykstra Force
Kay Ann Gardner
Wilson Yeshuant Garud
Kathryn Jane Gielow

Douglas Arthur Hall
Charles A. Howland
Patricia Janicki
Rodney Alvin Johnston
Susan Beth Jones
Sally Kathryn Miller Kemp
Robert Roger Kurtz
Marilyn Harding LaLone
Paul Wellman Lampkin
Chester Foy Lewis
Barbara Ann Lossman
Fumi Majima
Thanom Markachan
William Edwin Mellon
Barbara Emmi Miles
Frank John Mislivec
Norman Keiji Mizuguchi
Stephanie Joanne Moceri
Daniel G. Munoz
Billie Dee Judith Munro
Nancy Irene Nakfoor
Joseph Clayton Neiman
Gerald Michael Nester
Margaret Ellen Noone
Melvin George Nunn
Alison Jane Olding
Michael Barry Palmer
Sandra Elaine Peacock

Margaret C. Peters
Jeffrey Robert Pettinga
David Joseph Porrell
John William Post, Jr.
Ellen Marie Quarles
Paul David Robinson
Eugene A. Rolf
H. Charles Roost
Diana Rowland
Thomas Charles Sackrider
Ruth Esther Sallberg
Mary Green Sampson
Bettyjean Shea
Surat Silpa-Anan
Clare Milo Slotman
Yvonne Elaine Smith
Gary Morris Sommer
Joanna Warner Stark
Marion Rexer Stiles
Clyde J. Stretch
Steve Donald Szabo
Terry Dean TenBrink
Joyce Arlene Vance
Charles John Vander Kolk
Gertrude Jane Van Der Slik
Gloria Lucille Watt
James Leon Wieber
Rosa Lee Winchester
Hubert Constantinus Wouters

Elementary Education

DEGREE OF
BACHELOR
OF ARTS

*Sandra Kay Adams
Joan Price Angevine
Paula D. Serdynsky Barnum
Sandra Lee Benson
Sandra Lee Beyer
Joy Bittner
*Linda Kay Blair
Lorraine Katherine Bokor
Beth Eileen Brewbaker
Sharon Carlisle Brolick
Elizabeth Jane Brooke
Linda Kay Scott Brown
Julie Christine Buehler
Judith Anne Carr
H* Carol Jean Chappell
Dona Lyn Christensen

Barbara Baldwin Clark
Susan Lynn Clark
Monta Rae Comden
Gaila Rose Cook
*Yvonne Jill Darlington
Susan Elizabeth Degolia
Helen Marie Derengoski
Mary Ann Donahue
Marcella Leone Downes
Timothy Perry Dye
Geraldine Wolpman Fogarty
Virginia Mary Fox
Dawn Marie Frantz
Janice Kay Furest
Barbara Greene
*Marsha Van Dyke Haller
Susanne Margaret Hansen

Patricia Ellen Harrington
Marsha Stapp Harwood
Kathleen Mary Herman
Jane Kristen Herrick
Mary Ann Igrisan
*Muriel Edna Innes
Ann J. Jablin
Susan Carol Jinks
Ellen Terry Johns
Gunnard Nixon Johnson
Roberta Marie Johnson
*Sarah Elizabeth Jones
Susan Keating Kenerson
Kathleen Dennise Kietzer
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Marcee Merrill Martin
Pamela Ann McCloud
Joanne McLain
Donelda Sue Miller
Dorothy Minnich
Sandra Lynn Moll
Mary Susan W. Monson
Nancy Ann Morse
* Betty Lou Nash
Sandra Joan Nemode
Paula Jean Nugent
Jan Elizabeth Oakley
Cathryn Lynette Olson
Jacquelyn Lee Ott
Marlene Wendy Panter

Barbara Ann Parker
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Muriel Maxine Perkins
Nancy Lucille Petersen
Melanie Ann Phillips
Bernadette Apollonia Pilukas
Cynthia Mary Pontti
Sigrid Ann Pylkas
Kathryn Mary Redick
E. Lynn Richelson
Jeanine Kay Richter
Sheryl Lynne Romence
Jeanette Hern Rowe
Betsy Boal Schmink
Betty Lou Schoneker
Virginia Rogers Scott
Denise Mary Seay
Barbara Ann Silverman
Patricia Ann Sisco
Sherrie Dudley Smith
Richard Paul Sniegowski
Kaedonna Louise Spear

Linda Kay Steele
Susan Kaye Stewart
Lynn Ellen Sylvester
Lynn Marie Tabor
Carolyn Marie Thompson
*Dianne Louise Tomkins
Royleen Toor
Patricia Forbes Tuttle
Paula Elaine Valovich
Michael Ion Van Arsdale
*Anne Wunsch Wakenhut
H* JoAnne Kay Walton
Gail Faye Warner
Caryl Edith Webber
Margaret Anne Wells
Karen Mary Wickstrom
Howard Delano Wilson
Mary Elizabeth Winkler
Ruby G. Wofford
Bethany Joyce Woodbury
David Victor Zakem
Elaine Mary Zuchet

DEGREE OF BACHELOR OF SCIENCE

*Health, Physical Education
and Recreation*
Carmen Vanetta Agnew
Frank Eugene Altimore
Anthony John Angel
Thomas L. Bodell
Sandra Kay Brake
John Robert Chown
Brian Melvin Evenson
Ronald Walter Hohman

Barbara Catherine Maxson
Dave Michael McCormick
Leland Harry McGonigal
Thomas Neil Miles
Laurence Steven Mirvis
Emil Clarke Niederer
David Lynn Percival
Marybeth Piatt
William Martin Rea
Carl L. Salling, Jr.

Patricia Alice Sibson
*Jane Cheyney Sinnamon
Clare McNaughton Spille
William Triola, Jr.
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Industrial Arts
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Jeroldyne Rogers
Monte C. Shettler

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Wayne Warren Stevens
James Winfred Thomas

Communication

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Gerald Winn Card
Cedric Coles Clark
Cesar Alfonso Portocarrero
Rubio
Eduardo Ramos
Eissy Bonilla de Ramos

Journalism

Don Raymond Pember

Speech

Richard Keith Allen
Barbara Lee Amundson
Barbara Jean Buck
Harlow Munson Claggett
Richard Andrew Duncan
Charles T. Grimes
Charles Ray Hannum
Clara H. Lang
Mary Carol Llewellyn

Roger Alan Long
Howard George Longcore
Nancy Reid Marutz
Margaret Louise Miller
Suzanne Beekman Mills
Roy Vance Paul
William Boleslaus Sakalauskas
Robin Noel Widgery

Television and Radio

Robert Hunt Baker
Arthur Allan Bartfay
Wayne LaVerne Corey, Jr.
David Gene Schmeling

DEGREE OF BACHELOR OF ARTS

Advertising

Gary Lee Bradbury
John William Beckman
Donald Thomas Busch
Christine Louise Hawkins
William Thomas Helderman
Michael Lee Kemerling
Victor Simon Kishigo
Edward John Petricko
Robert Dennis Richter
William Lee Rockey
Robert John Schanilec
Mark Harold Sherman
Paula Kay Steyer
*Stewart Dennis Watson
Eric Gregory Ziegler

Communication

Harold James Blanchet, Jr.
Susan Hurd Dutmers
Ronald Lindsay Seward

Journalism

Janet Kay Milano
Donald Ira Sockol

Speech

Donald Haydn Daniels
Sherry Louise Frisinger
*Linda Jean Millerd

Television and Radio

Robert H. Bradsell
Harold Dean Bredwell, II
Joe Daryl Buys
William Allen Clement
James Scott Foster
Jerome Queltin Francisco
*Sydney Harvey Harriet
Cynthia Lou Hewitt
Gerald Edward Holmes
Ashley Saunders Lipson
Kenneth Bernard Miller

Stuart Webster Pollock, II
Randall Dean Schroeder
Anthony David Shor
*Timothy Coulon Skubick
Herbert Ralph Smith
*Shelby Kay Smith

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Francis Adalberto Bernier
Linda Marie Casteel
Holly Sue Hanert
*Molly Anne Harrington
Joanne Elizabeth Knox
Karen Louise Munson
Barbara Sue Wepman

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Gary J. Brady
Patricia Ann Carr
Richard David Cross
John Robert Fletcher
David Robert Hessler
Carol Jean Joslin
James Valentine Wisnewski

Comparative Literature
Jennifer Ann Lee

Henry John Prince
Bruce Philip Tracy
Katherine Graves
Vande Brake

French
Francis Charles Allera
Tippahya Ekabhot
Sandra Jean Hayward
Rodney John Mulder

James Patrick McGough
Dugald McMillan
Fred MacKinnon Molner
Harvey G. Neufeldt
Patty Lou Puckett
Maureen Elizabeth Raidy
Charles Holcomb Twork
William Jerome Uiting
Steven Boyer Zamiara

Philosophy
Sidney W. Chapman

English
Della Ann Burt
Richard James Dalzell
Katherine Sheila Dannemann
John Bruce Holmes
Kathleen Louise O'Dowd

German
E. Morgan Kelley, Jr.
Karl Heinz Regenbogen

History
Charles William Bethea
Sally Lou Gregory

Spanish
Salvino Lostuzzi
Teresa Elisa Olivares-Villegas
Sandra Elfenbein Stanfield

DEGREE OF
MASTER
OF ARTS
FOR TEACHERS

History
Judith Ann Depoalo

DEGREE OF
MASTER OF
FINE ARTS

Art
Neil J. Bittner

DEGREE OF
MASTER
OF MUSIC

Applied Music
Sharonlee Anderson

Music Education
Robert Harry Curnow
Thomas John Trent

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DEGREE OF BACHELOR OF ARTS	<p><i>Art Practice</i> Gary William Abbott * Mildene D. Bradley Susan Jane Byers Melissa Jean Jopke Mary Elizabeth Kinney Wayne Charles Kusnery Mary Louise Popma David Noel Steadman * John Richard Wagner</p> <p><i>English</i> John H. Braccio Lori K. Emmons Diana Carol Finer Anne Sherrett Gardner Susan G. Hopkins Louise Marie Keenan David Jerome Maslowski * Sandra Dianne Sandell Susan Elizabeth Surface Suzanne Schwartz Widgery</p> <p><i>French</i> H* * Marian Elizabeth Moynes * John Thomas Ryan</p> <p><i>German</i> Hermann Weiss</p> <p><i>History</i> John Michael Anderson John Murray Dennany William Ferguson, Jr. * Trafton Lee Foster David Daniel Haskell Maxie C. Jackson, Jr. Carol Ann Kingsley Dianne Adele McWilliams H* Helen Dunham Playdon * Charles Denton Presler, III Walter Lowell Reling, Jr. * Joseph Karl Vanderveen Michael Frederick Wurst</p> <p><i>Humanities</i> Ann Boylan * Eileen Smith Burg</p>	<p>Jonathan Paul Callender Ronald Frederick Hurst Rosemary Jantz Charles Rodger Morscheck, Jr. Richard Bradley Pointon Richard Everett Van Steenburg Thomas Joseph Weis * Joan V. Wienbrauck</p> <p><i>Humanities</i> Joseph Gerald O'Reilly</p> <p><i>Philosophy</i> John Marvin Dorst, Jr.</p> <p><i>Russian</i> Valentina Chorenko</p> <p><i>Spanish</i> David Earl Jones José A. Madrigal Nancy Lee Turner</p>	<p>H* * Susan Reese Fournier * Janice Louise Goines Lynn Dale Katz * Virginia Maureen Keleher H* * Kathryn Bernice Kleimola Mary Lou McAlister * * Susan Elizabeth Roney Candace Elizabeth Winstanley</p> <p><i>French</i> Zita Petravicus</p> <p><i>German</i> Eleanor Pauline Blascak * Pirkko Liisa Bremer</p> <p><i>History</i> John Edward Carr Leigh Cherly Christie John Leo Clarey George Thomas Cole, III * Jeanna Ann Cooper Karen Kay Cornelius James Edwin Ehle Mary Lou Embury Samuel Preston Gaines Kathryn Anne Hagerman Timothy Ottley Hill * Donald James Humphrey John Edward Joldersma Donna Lee Kunstman * James Robert Lancaster * Mary Christina Scott Stephen James Strong Thomas George Tuschak William Ronald Wess</p> <p><i>Latin</i> Joseph Albert Zrimec</p> <p><i>Spanish</i> * Louis Jacob Paxton Karen Sue Steadman * * Linda Lee Taylor * Janet Smith Westbrook Barbara Christine Watwood Zacklan</p>
	<p><i>Art Practice</i> Michael Larry Davis Robert Allan Ernest V. Glen Washburn</p>	<p>DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION</p> <p><i>Art Practice</i> Donald Frank Anderson Jeffrey Lawrence Coy Jill Eloise Daniels Jeraldine Hellman Janice Gayle Kalkman Virginia Ann Matheny Priscilla Anne Merrick Judith Dalton Rossman Sally Ann Sewruk Eldridge Suggs, III Phyllis Ann Wight Marilyn Kay Wright</p> <p><i>English</i> Miriam Rumney Amerson Sylvia Konczol Boeder Marcia Eileen Fast Sandra Jean Fitz</p>	<p>DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION</p> <p><i>Art Practice</i> * Larry Alan Cross</p>
	<p><i>Music Therapy</i> Dorothy Elizabeth Layman Cheryl Ann Weiss</p>	<p>DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION</p> <p><i>School Music</i> H* * Hubert Eugene Arnold Thomas Henry Hagen</p>	<p>* Judy Mae Harrington Paul Joseph Lipa Diane Grace Novakowski Joseph Vincent Palazzola Bobbie Lou Simmons * Jean Elvera Wilson</p>

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RICHARD U. BYERRUM, DEAN

DEGREE OF
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Mathematics
Yong Mok Lee
John Henry Mathews

DEGREE OF
MASTER
OF ARTS FOR
TEACHERS

*Biological Science —
Interdepartmental*
Robert Edward Bullerdick

General Science
Jon Leon Davison
Karen Y. A. Kim

*Biological Science —
Interdepartmental*
William Gilbert Anderson
Daniel Patrick Vaughan

Biophysics
Harold Cecil Harder
Philip Steven Ulinski

Botany
George Harvey Burgoyne
Richard Clinton Harris
Julie Hitt
Ronald William Hoham
William Ronald Landis
Lawrence Willard Nelson

DEGREE OF
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Chemistry
James Albert Anderson
Delos Russell Byrne
Donald William Frey
Glen Richard Hoff
Tsuyoshi Kakihana
Charles Wallace Litwinski
Charles Edgar McCoy, Jr.
Roger Kenneth Murray, Jr.
Monica Hiralal Narang
George Peter Nilles
James Duane Slee

Entomology
Micah Ikechuku Ezueh
Ruediger Carl Hillmann

Jeffrey James Jackson
Bibhuti Ni Singh
James Peter Tjepkema
James George Truchan
Douglas Allen Valek

Geology
Ellis Neil Benedict
Jonathan Bork
William Roger Miller
Balkumar P. Shah
Michael Martin Spurgat
William Thomas Stelzer
Merlin Leroy Wheeler

Mathematics
James Martin Brandl
John Kenneth Cooper, Jr.
Nassar Dastrange
Gordon F. Dirksen
John Scott Downing
Richard Lanham Fremon
Rahim Ghannadi Karimpour
Steven Joel Leon
Marian Lynn Moorhead
Cary Bruce Salsberg
Beverly Pearl Whatley
Larry Joseph Zettel

Microbiology
John William Dyke, Jr.
Michael Gregory Gabridge
Aline L. Garretson
James Xavier Hartmann
John Wilbur Moorhead

Physics
Dale Lee Breckenridge
Willard Marion
Gersbacher, Jr.
Richard Hohly
David John Perry
Michael Stephen Sher
David Allan Sumberg
Gary Lee Wismer

Physiology
Fritz Louis Lorscheider

Radiological Health
Welton Bingham Hunter, Jr.

Statistics
Mustafa Benyaklef
Aritomo Matsuda

Zoology
Richard Greig Burbidge
Carola Marietta Cattani
Sharon Louise Ott Cummings
Don Alan Hay
Dennis Michael McCarthy
Sigurd Oscar Nelson, Jr.
Brenda Jane Ostrander
Anita Veleria Patterson
Peter Hamilton Rich
Nicholas Charles Shuraleff, II

COLLEGE OF NATURAL SCIENCE

DEGREE OF BACHELOR OF ARTS	<i>Chemistry</i> *John Orson Young	DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION <i>Mathematics</i> M. Jo Dingeman	Jone Plattner Oman H* Marilyn Ruth Rouen Randy Lynn Sims Bonnie Suzanne Steffes
	<i>Mathematics</i> Robert Joseph LaLonde *Kellie Lynn Willson		
DEGREE OF BACHELOR OF SCIENCE	<i>Biochemistry</i> Lawrence William Masten	<i>Nursing</i> Lois Howe Burghdoff Marsha Meredith Reichardt	DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION <i>Biological Science — Interdepartmental</i> *Karen Ann Jacobson Patricia Kehaulani Kaneshiro *Carol Jean Kato John Wayne Powell Karl John Sjolander *Philip Ardon Snyder
	<i>Chemistry</i> *Joseph Martin Malik	<i>Physical Science — Interdepartmental</i> James Lewis Little Sherman Christopher Neal Ronald Roy Whipple	<i>Chemistry</i> Clare Edward Moritz
	<i>Geology</i> Kenneth Freeman Johnson Robert Frederick Meissner Jon O. Nowlin David E. Swanson *Peter Joseph Zirnhelt	<i>Physics</i> Robert Edward Karas H* James F. Lang	<i>Mathematics</i> H* Betty Ann Blake Richard Joe Drake Eugene George Horvath Gary Lee Nearpass Lawrence Irvin Presler *Shirley Marie Sheehan Myron Howard Vaughen Jeffrey Allen Wagnitz
	<i>Mathematics</i> H* Jonnie Douglas Adams H* Michael Owen Albertson *Diane Davidson Daniels Jerry Michael Garwood Elliot Michael Gold Anders George Johanson Thomas Chester Johnson Paul R. Kalbach H* Philip George Kraushar, Jr. David M. MacDonald H* John Richard Myers James Steele Shepperd *Joan Katherine Stepenske	<i>Physiology</i> Joseph Thomas Baker	<i>Physical Science — Interdepartmental</i> Elaine Anne Kroupa David William McNeilly David Clay Shoemaker
	<i>Microbiology</i> George Franklin Donnella Raymond Lee Osborn Ernest Fred Shank, Jr.	<i>Zoology</i> Elizabeth Buvens Adkins William Howald Adkins, Jr. John Lowell Bradley David Allen Brooks George Alfred Davies, Jr. Joan Audrey Figueroa William Jacob Gruhn William Frank Heckert Gary Neal Kieffer Harry Harold Lucyshyn William Samuel Moore John William Morlock Richard Allen Powers Barry R. Tietler	<i>Zoology</i> **Sara Elizabeth James

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DEGREE OF MASTER OF ARTS	<i>Anthropology</i> Winfred J. Smith	<i>Psychology</i> Henry Richmond Askew Ross Edward Carter Elizabeth Janet Force Barry David Graff Diane Elizabeth Johnson Reid Petree Joyce Jo Anne Huddleston Lifshin Marcia Zoe Lippman Donna Jean Palonen Howard Kirk Porter Christie Cosby Randolph Thomas Sawyer Rowland Edwin W. Rubel Larry William Thornton Robert Hammond Tinker Ray Wyatt Winters	Jolene Cassens Lynam Phillip Irving Simrod
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	<i>Political Science</i> Robert William Becker Jean Karen Ellickson Judith Brengle Finn Kenneth Roger Greene James Patrick Hanley, Jr. Kenneth W. MacGregor Samuel H. J. Ramtu Pamela Anne Syfert	<i>Social Science</i> Alfred William Foust George Gerhard Janzen	
DEGREE OF MASTER OF LABOR AND INDUSTRIAL RELATIONS	Thomas Allen Fox, Jr. Philip Kenneth Kienast Nikolas Michael Kostopoulos Robert Arlan Sinnott		
DEGREE OF MASTER IN LANDSCAPE ARCHITECTURE	D. Rodney Tapp		
DEGREE OF MASTER OF PUBLIC ADMINISTRATION	Patrick Michael Brennan		

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Geography
Wm. L. Warber

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Russell J. Arend
James Michael Botting
Barton Reed Friese

William Stephen Hunt
John Harold Mills
Walter D. Weiss
Show Shan Yang

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PLANNING

E. Owen Donnelly
Warren Kahle
John Thomas Smith
John Owen Tompkins

Anthropology
Linnea Mary O'Neil
*Alice Virginia Reid

Geography
James Cochran Clark

Political Science
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Norris Clark Bryson
*Fred Henry Carmichael
William James Class, Jr.
Dennis William Cleary
David Paul Conlin
Michael Neil Connolly
Richard W. Foster
John Raymond Hilbert
Sandra L. Holtz
Elaine M. Johnson
Carry Jay Lenick
Judy Pinkston McCarthy
Francis Griffiths Miller
Byron Douglas Peterson
*Ronald Walter Piasecki
Max LeRoy Pierce
Louis Alton Richardson, Jr.
Allan Kreis Strunk
Carl N. Tanigawa

Psychology
Hal Martin Brown
Thomas Lester Clark
Ruth Evelyn Cronkite
William Joseph Eaton
Robert St. John Flanders
H* Dennis Roy Harbert
James Howard Hile
*Eileen Carolyn Howell
Fredrick Leonard Lapinski
Janice Cooper Marquis
Robert Lee Mills

Margaret Ann MacPhail
Norris
*Terry Earl Norris
Robert Walter Perkins, Jr.
Paul Vincent Placeway
Narda Joann Riese
Keith Dean Roberts
*Nancy Twomey
*Paul Weisbord
Michael Herbert West

Social Science
Thomas James Aylward, IV
Ronald Bracy Burke
Thomas Marvin Clemons
Carol Ann Cohagen
Robert William Corl, Jr.
Richard Douglas Deason
Robert David Flack
Robert Leslie Harrison
Claude Charles Hull
Judith Kreps Humphreys
Kent William Knudtson
Judith Ellen Lawrence
Cynthia Lee Leitman
John Bailey MacDonald
Michael Dwight Marrs
Mario Stephen Oddo
Paul Sarel Schrier
Jack Lee Shook
Hilary Ann Silver
Geoffrey Don Simmon
Edward Norman Slade
Laurence Roy Smykowski
Janet Marie Sunderlin
Michael James Whyte

Social Work
Karen Elizabeth Adams
Katherine Anne Blatt
Jean Steketee Breay
Dianne Dannielle Bruni

Kayellen Button
Lawrence Franklin Davenport
Nancy Lee Green
Nancy Beverly Linn
Helenann Sheardy
Kent Charles Stoddard
Janice Rosemary Tatti
Timothy Joseph Uhlmann
Diane Mary VanHaverbeck

Sociology
Leah Marian Brody
Richard Biddle Harper
Fay Ann Johnson

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Geography
Rosetta Mae Jones
Michael David Soule

Social Science
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*Thomas Eugene Howie
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Robert C. Jones
Richard Donald Kilbourn
Janet Sue Lockwood
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George Richard Hosek

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Brian J. Bouts
Charles James Brophy, Jr.
Gretchen Ann Close
Thomas Gifford Corneil
*Thomas Kirkland Devitt
Charles Arthur Ferguson
Robert Allen Freeborn
John David Gates
John Hoadley Gibson, Jr.
William Keith Hanson
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Anthony Hunter Hopfinger
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Raymond Henry Kraft
Donald Van Kurcz

Carole Marie Mason

Terry Lee McElheny

Alvin T. Peterson

*Robert Dee Pursley

*Dennis Rodney Reefer

Franklin Derek Roberson

H* Jimmie Allen Rodgers

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Norman George Stoner

Larry Francis Taylor

Ronald Delbert Tipton

*Alfred Walter Zumpf

Psychology

H* George Franklin Bishop
Peter Richard Chisena, Jr.
Kenneth Arthur Gordon
Richard Alan Gregory
Verne D. Hulce
Burnett Stephens Kelly
Thomas Eldon Kent
Soo Sam Lee
*Bill Bailey Peters
Robert Ivan Sachs
Thomas Gordon Shier
Michael Dean Vahue

Social Science

David Lyle Dalenberg

John Godfrey Gronberg

*Michael Scott Jolly

Lee David Klopfenstein

Leslie Lee Lobaugh

*Karen Frances Schaefer

David Glenn Walton

Thomas Gary Weston

Sociology

Arthur Frederick

Langeneckert

Urban Planning

Louis Orosz

Ronald Carl Otzman

Richard Traill

DEGREE RECOMMENDED

JOINTLY WITH THE
COLLEGE OF EDUCATION

Social Science

Mary Anna Mann

H* Kay Marie Petersen

H Honors College
* With Honor
** With High Honor

RESERVE OFFICERS' TRAINING CORPS

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

AEROSPACE STUDIES

Robert E. Burg
Jeffrey L. Coy
George A. Davies, Jr.

Dennis M. Drummond
Sherman C. Neal
Jack F. Wheeler

James J. Zolczer

MILITARY SCIENCE

Artillery
*Michael S. Jolly

Corps of Engineers
John L. Griffin
Harry M. Newlon

Infantry
Stephen D. Franklin
*Alden J. Wyma

Medical Service Corps
Yale M. Wolk

Ordnance Corps
Dennis L. Haney
Alvin T. Peterson
Kenneth R. Smith
*James G. Weston

Quartermaster Corps
Carl K. Branson
William C. Brown
Carl A. Curchoe
David M. Petruska
John R. Shaw

Signal Corps
Gerry L. Ackley
Thomas E. Franklin
James H. Hile
Thomas C. Johnson
Charles D. Presler
*Terril J. Steichen

Transportation Corps
Lawrence R. Lindner
*Burton J. Stanley

* Distinguished Graduate