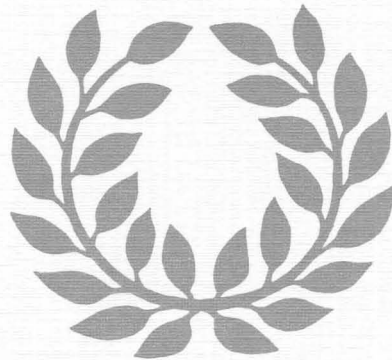


*Commencement*  
*fall 68*



COMMENCEMENT 1968  
MICHIGAN STATE UNIVERSITY

## THE COMMENCEMENT COMMITTEE

HERMAN L. KING, *Chairman*

MADISON KUHN

LLOYD R. CHAMPION

JOHN G. LAETZ

JAMES H. DENISON

REBECCA J. LAU  
*Student Representative*

EVERETT R. EMINO

EDWARD L. PETRINI  
*Student Representative*

HORACE C. KING

KERMIT H. SMITH

---

Following the close of the 1968 Fall term, approximately seven weeks are required to complete the processing of academic records and the preparation of diplomas. Based on this schedule, diplomas will be mailed in February, 1969.





# COMMENCEMENT 1968

Saturday, December 7  
University Auditorium, East Lansing

# ACADEMIC COSTUME

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

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

Three types of gowns are indicated by the code. Those worn by the bachelors are made of black worsted material and have long, pointed sleeves. Those worn by masters may be made either of black silk or black wool and have long, closed sleeves with the arc of a circle near the bottom. The arm goes through a slit, giving the appearance of short sleeves for the master's gown. Doctors' 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<br>AND NATURAL RESOURCES ..... | <i>Maize</i>       | COLLEGE OF<br>HOME ECONOMICS .....     | <i>Maroon</i>        |
| Forest Products,<br>Forestry, Packaging .....         | <i>Russet</i>      | COLLEGE OF<br>HUMAN MEDICINE .....     | <i>Green</i>         |
| COLLEGE OF ARTS AND<br>LETTERS .....                  | <i>White</i>       | JAMES MADISON COLLEGE .....            | <i>Citron</i>        |
| Music .....   | <i>Pink</i>        | JUSTIN MORRILL COLLEGE .....           | <i>White</i>         |
| Philosophy .....                                      | <i>Navy Blue</i>   | LYMAN BRIGGS<br>COLLEGE .....          | <i>Golden Yellow</i> |
| COLLEGE OF BUSINESS .....                             | <i>Drab</i>        | COLLEGE OF<br>NATURAL SCIENCE ...      | <i>Golden Yellow</i> |
| Economics .....                                       | <i>Copper</i>      | Nursing .....                          | <i>Apricot</i>       |
| COLLEGE OF<br>COMMUNICATION ARTS...                   | <i>Royal Blue</i>  | COLLEGE OF<br>SOCIAL SCIENCE .....     | <i>Citron</i>        |
| Journalism .....                                      | <i>Crimson</i>     | COLLEGE OF<br>VETERINARY MEDICINE .... | <i>Dark Gray</i>     |
| Speech .....  | <i>Silver Gray</i> |  |                      |
| COLLEGE OF EDUCATION...                               | <i>Light Blue</i>  |  |                      |
| COLLEGE OF ENGINEERING....                            | <i>Orange</i>      |  |                      |

# ORDER OF CEREMONIES

## PROCESSIONAL

CROWN IMPERIAL — *Walton*

Michigan State University Band, PROFESSOR HARRY BEGIAN, *Director*

## AMERICA — *Smith*

The Band and Audience

## INVOCATION

THE REVEREND JOHN S. DULEY

*Director, Co-curricular Programs, Justin Morrill College*

## ADDRESS

THE REVEREND THEODORE M. HESBURGH, C.S.C.

*President, University of Notre Dame*

## OVERTURE

CELEBRATION — *Creston*

## CONFERRING OF DEGREES

JOHN A. HANNAH

*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.

(The Band and Audience)

## BENEDICTION

THE REVEREND MR. DULEY

## RECESSIONAL

CORONATION MARCH FROM "LE PROPHET" — *Meyerbeer*

The escorts for the procession are members of Mortar Board, the honor society for senior women, and Alpha Lambda Delta, the honor society for freshman 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 DON STEVENS, <i>Chairman</i> | .....Okemos      |
| THE HONORABLE C. ALLEN HARLAN              | .....Southfield  |
| THE HONORABLE CONNER D. SMITH              | .....Pinconning  |
| THE HONORABLE STEPHEN S. NISBET            | .....Fremont     |
| THE HONORABLE FRANK HARTMAN                | .....Flint       |
| THE HONORABLE CLAIR WHITE                  | .....Bay City    |
| THE HONORABLE FRANK MERRIMAN               | .....Deckerville |
| THE HONORABLE KENNETH W. THOMPSON          | .....Lansing     |

---

|  |                   |
|--|-------------------|
| JOHN A. HANNAH, <i>Ex Officio, President</i> | .....East Lansing |
| JACK BRESLIN, <i>Secretary</i>               | .....East Lansing |



# MICHIGAN STATE UNIVERSITY

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

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

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

Founded in 1855 to educate youth for the major occupation of that day — farming — MSU has broadened its offerings to meet the educational needs of today. Michigan State now has the School for Advanced Graduate Studies and 15 colleges — Agriculture and Natural Resources, Arts and Letters, Business, Communication Arts, Education, Engineering, Home Economics, Human Medicine, James Madison, Justin S. Morrill, Lyman J. Briggs, Natural Science, Social Science, Veterinary Medicine and the University College. 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 more than 200 Merit Scholars in this year's freshman class. This figure represents approximately seven percent of the nation's total of this unusually select group.

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

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

# MICHIGAN STATE UNIVERSITY

(continued)

within the framework of the social sciences and related disciplines. Lyman Briggs makes available a liberal curriculum for students especially interested in science and mathematics.

Today, nearly 40,000 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 81 foreign countries.

Looking to the future, Michigan State University is preparing to meet the challenge of increasingly larger enrollments by revising curriculums and developing new teaching techniques through its Educational Development Project.

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

All colleges and the Agricultural Experiment Station are engaged in a wide range of research. Some 2,100 individual projects are in progress. The University's research tools include the Control Data 3600 and 6500 Computers and a 50-million-volt cyclotron. Modern facilities include the following new buildings: Chemistry, biochemistry, psychology research, veterinary medicine, plant science research, and natural resources.

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

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

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

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

# HONORARY DEGREE

THEODORE MARTIN HESBURGH

You have fashioned an outstanding career as a theologian, as an educator, as an administrator, as a public servant, and as a citizen of the world. With your great energy and your steadfast dedication to the Christian life, you have contributed much to our country, to your church, and to the cause of human welfare in a broad range of undertakings.

As a board member, director, or trustee of the American Council on Education, of the Woodrow Wilson National Fellowships, of The Rockefeller Foundation, of The Carnegie Foundation for the Improvement of Teaching, and of many more national and worldwide groups, you have demonstrated your deep concern for the quality of both teaching and learning in our colleges and universities.

Since 1952 as President of the University of Notre Dame, you have combined an enlightened vision with a rare quality for educational leadership.

As a permanent Vatican delegate to the Conference of International Atomic Energy, as a member of the United States Commission on Civil Rights, as a trustee of the National Science Foundation, and as an active member of many national and international committees, councils, and conferences, you have advanced the cause of human dignity and interracial justice.

Because of your devotion to knowledge and truth, your contributions to the strengthening of the traditions of American education, and your sustained faith in the enduring values of Christian brotherhood among men of all races and all colors throughout the world, Michigan State University is proud and pleased to confer upon you the degree of Doctor of Laws.



# THE CANDIDATES FOR DEGREES

## 1968 CLASS ROSTER

This includes the names of candidates for degrees as of the close of the 1968 Fall term, as well as the names of the recipients of the Doctoral and Master degrees at the close of the 1968 Summer term.

Candidates 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 — GRADUATED SUMMER TERM, 1968

GARY FRANCIS ALKIRE, Ed.D.

B.A., M.A., Northern Michigan University.  
Education. Major Professor: Herbert C. Rudman, Professor.  
Thesis: *What Do You Think About Your Schools: A Study of the Determination of Discrimination and Reliability Indices and the Establishment of Michigan Norms.*

ARTHUR SILSBY ALLEN, Ph.D.

B.S., M.S., University of Maine.  
Botany and Plant Pathology. Major Professor: Harry Murakishi, Professor.  
Thesis: *Cytopathology of Inclusions Caused by Six Strains of Tobacco Mosaic Virus in Leaf Cells of Resistant and Susceptible Lycopersicon Esculentum Mill.*

JOSEPH MAC ALLMAN, Ph.D.

B.A., Antioch College; M.A., Michigan State University.  
Political Science. Major Professor: Frank A. Pinner, Professor.  
Thesis: *Socialization, Personality and the Orientation Toward Change.*

GAIL ADELE ATNEOSEN, Ph.D.

B.A., A.M., Indiana University.  
Mathematics. Major Professor: Patrick H. Doyle, Professor.  
Thesis: *On the Embeddability of Compacta in N-Books: Intrinsic and Extrinsic Properties.*

MICHAEL SOHEIL AZKOUL, Ph.D.

A.B., Calvin College; B.D., St. Vladimir's Seminary; M.A., Michigan State University.  
History. Major Professor: Richard E. Sullivan, Professor.  
Thesis: *Peri Oikonomia Theou: The Meaning of History According to the Greek Fathers.*

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- GERALD C. BECKWITH, Ph.D.      B.A., M.A., Michigan State University.  
Communication. Major Professor: Leo Martin, Professor.  
Thesis: An Investigation of Role-Orientation and Reference-Group Identification in Systems of Broadcast Communication.
- GLADYS MAY BECKWITH, Ph.D.      B.A., M.A., Michigan State University.  
Education. Major Professor: Elizabeth H. Rusk, Professor.  
Thesis: A Study of the English Teacher Role in the Secondary School as Perceived by Student Teachers and Supervisory Teachers of English.
- CLIFFORD JOSEPH BEDORE, JR., Ed.D.      B.A., Northern Michigan University; M.A., University of Michigan.  
Education. Major Professor: James E. Heald, Professor.  
Thesis: Legislators' Reported Information Sources for Educational Legislation.
- DAVID PARHAM BELLAMY, Ph.D.      B.A., King College; M.S., Michigan State University.  
Mathematics. Major Professor: Harvey S. Davis, Assistant Professor.  
Thesis: Topological Properties of Compactifications of a Half-Open Interval.
- STEPHEN SHAW BIRDSALL, Ph.D.      B.A., Antioch College; M.A., Michigan State University.  
Geography. Major Professor: Harm J. de Blij, Professor.  
Thesis: Transportation and Agricultural Development in Western Kenya: An Approach to the Problem of Investment Priorities.
- STANLEY PARRIS BLATTI, Ph.D.      B.A., University of Minnesota.  
Biochemistry. Major Professor: William C. Deal, Jr., Associate Professor.  
Thesis: Characterization of the 3.5S Aldolase Intermediate as a Dimer and Analysis for Dimer Catalytic Activity.
- MARCIA M. BOZNANGO, Ph.D.      B.A., John Brown University; M.A., Michigan State University.  
Education. Major Professor: Dale V. Alam, Assistant Professor.  
Thesis: An Evaluation of Selected Title III Inservice Projects in Michigan as Perceived by Participating Teachers on Thirteen Variables.
- MAX EDWARD BRAMBLE, Ph.D.      B.A., University of Colorado; M.A., Western Michigan University.  
History. Major Professor: Paul A. Varg, Professor.  
Thesis: Alexander Hamilton and Nineteenth-Century American Historians: A Study of Selected Interpretations of Hamilton.
- BRADLEY AUGUST BREMER, Ph.D.      B.A., Moorhead State College; M.A., Michigan State University.  
Psychology. Major Professor: Donald M. Johnson, Professor.  
Thesis: Production and Judgment Processes in a Word Problem.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

H. HAINES BROWN, Ph.D.

B.A., Trinity College; M.A., Michigan State University.  
History. Major Professor: Richard E. Sullivan, Professor.  
Thesis: Archbishop Hincmar of Rheims (circa 806-882): His Idea of *Ministerium* in Theory and Praxis.

HAROLD FREDERICK BROWN, Ph.D.

A.B., Colby College; B.M., Westminster Choir College; A.M., Harvard University.  
Music. Major Professor: William R. Sur, Professor.  
Thesis: An Analysis of the Program Notes of Selected Symphony Orchestras.

CEDRICK C. CLARK, Ph.D.

B.A., Trenton State College; M.A., Michigan State University.  
Communication. Major Professor: Hideya Kumata, Professor.  
Thesis: Dispute Settlement in Tanzania: A Model of System Support Through the Communication of Legitimacy.

JAMES ALLEN CLEMENS, Ph.D.

B.S., M.S., Pennsylvania State University.  
Physiology. Major Professor: Joseph Meites, Professor.  
Thesis: Role of the Hypothalamus in Pituitary Hormone Feedback, Mammary Cancer, Puberty and Aging in the Rat.

JAMES L. CONLEY, Ph.D.

B.A., Ohio Wesleyan University; B.S., The Ohio State University; M.A., University of Michigan.  
Education. Major Professor: Don Hamachek, Associate Professor.  
Thesis: A Study of Selected Biographical Data, Personality Characteristics and Attitudes of Elementary Intern Program Students at Michigan State University.

FRANKLIN D. CORDELL, Ph.D.

B.A., M.A., Michigan State University.  
Education. Major Professor: Frank H. Blackington, III, Professor.  
Thesis: Structural Simplicity and the Selection or Rejection of Formulations in the Sociology of Education.

FREDERICK GERALD DAVIS, Ph.D.

B.S., University of Illinois; M.S., San Jose State College.  
Business Administration (Accounting). Major Professor: James Don Edwards, Professor.  
Thesis: An Evaluation of the Employee Savings Plan as an Equity Capital Source.

LESLIE MITTEN DAWSON, Ph.D.

B.B.A., Iona College; M.A., University of Toledo.  
Business Administration (Marketing). Major Professor: Bernard J. La Londe, Professor.  
Thesis: Social and Professional Dimensions of the Image of Business: A Study of the Attitudes of College Students and Recent College Graduates Representing Selected Major Fields of Study.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- RAWDON ERNEST DEAR, Ph.D.  
B.S., M.A., Michigan State University.  
Education. Major Professor: Max S. Smith, Professor.  
Thesis: An Analysis of the Evidence of Need for the Establishment of Selected Junior Colleges in Missouri With Recommendations for Preparing Future Applications For Establishment.
- HOWARD JOSEPH DECK, Ph.D.  
B.S.E.E., M.S.E.E., University of Cincinnati.  
Electrical Engineering. Major Professor: Kun-Mu Chen, Professor.  
Thesis: Impedance-Loaded Receiving Antennas with Minimum Back-scattering and Maximum Received Power.
- DENNIS JOHN DELPRATO, Ph.D.  
A.B., Washington and Jefferson College; M.A., Ohio University.  
Psychology. Major Professor: Bertram E. Garskof, Assistant Professor.  
Thesis: Short-term Reductions in Retroactive Inhibition as a Function of Unreinforced Recall.
- JOHN ROBERT DONOHUE, Ph.D.  
B.M., M.M., Louisiana State University.  
Music. Major Professor: H. Owen Reed, Professor.  
Thesis: Symphony for Orchestra.
- DOUGLAS GORDON DORRELL, Ph.D.  
B.S.A., University of British Columbia; M.S., University of Saskatchewan.  
Crop Science. Major Professor: M. Wayne Adams, Professor.  
Thesis: Seedcoat Damage in Navy Beans, *Phaseolus Vulgaris* (L.), Induced by Mechanical Abuse.
- DEAN S. DUTTON, Ph.D.  
B.A., University of Utah; M.A., Michigan State University.  
Economics. Major Professor: Thomas R. Saving, Professor.  
Thesis: A Model of Self Generating Inflation: The Argentine Case.
- FREDERICK NORMAN DYER, Ph.D.  
B.S., Eastern Michigan University; M.A., Michigan State University.  
Psychology. Major Professor: Terrence M. Allen, Professor.  
Thesis: The Effects of the Apparent Size of Afterimages in Studies of Emmert's Law.
- ROBERT ECHT, Ph.D.  
B.S., B.S., M.S., University of Illinois.  
Anatomy. Major Professor: Rex E. Carrow, Assistant Professor.  
Thesis: The Effects of Varying Physical Activity Levels On: Pulmonary Surface Activity, Great Alveolar Cell to Alveoli Ratios, and Great Alveolar Cell Oxidative Enzyme Histochemistry.
- VICTOR REGGIE EDGERTON, Ph.D.  
B.S., East Carolina College; M.A., University of Iowa.  
Education. Major Professor: Wayne D. Van Huss, Professor.  
Thesis: Histochemical Changes in Rat Skeletal Muscle After Exercise.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- DEE WAYNE EDINGTON, Ph.D. B.S., Michigan State University; M.S., Florida State University. Education. Major Professor: William W. Heusner, Professor. Thesis: Pyridine Nucleotide Concentrations and Ratios in Rat Muscle, Heart, and Liver in Response to Acute and Chronic Exercise.
- ARMAND ELROY FALK, Ph.D. B.A., Concordia College; B.S., University of Minnesota; M.A., University of Montana. English. Major Professor: C. David Mead, Professor. Thesis: Theatrical Criticism in the New York *Evening Post*, 1801-1830.
- JOHN FORD, Ph.D. B.S., The Ohio State University; M.A., University of Michigan. Education. Major Professor: William W. Joyce, Associate Professor. Thesis: A Study of the Relationship Between Belief Systems and Cognitive Functioning in Children of Grades Four, Five, and Six.
- LESTER BYRON FULLER, Ph.D. B.A., Houghton College; M.S., University of Michigan. Mathematics. Major Professor: Robert H. Wasserman, Associate Professor. Thesis: Some Geometric Properties of Compressible Fluid Flows and Certain Classes of Such Flows Obtained by Intrinsic Methods.
- RICHARD PHILIP GALE, Ph.D. B.A., Reed College; M.A., Washington State University. Sociology. Major Professor: William H. Form, Professor. Thesis: Industrial Man in Argentina and the United States: A Comparative Study of Automobile Workers.
- RONALD RAY GARTON, Ph.D. B.S., Montana State University; M.S., Michigan State University. Fisheries and Wildlife. Major Professor: Robert C. Ball, Professor. Thesis: Effect of Metal Plating Wastes on the Ecology of a Warm-Water Stream.
- GARY JOHN GASCHO, Ph.D. B.S., Michigan State University; M.S., University of Illinois. Soil Science. Major Professor: John F. Davis, Professor. Thesis: Soil Nitrogen Availability Indexes and Effects of Potassium Carriers and Levels of Potassium and Nitrogen Fertilization on the Yield and Quality of Sugar Beets.
- PANTAZIS ALEXANDROS A. GERAKIS, Ph.D. B.S., University of Thessaloniki; M.S., Michigan State University. Horticulture. Major Professor: Shigemi Honma, Professor. Thesis: The Adaptation of Globe Artichoke (*Cynara scolymus* L.) to Annual Culture.
- LEROY BENJAMIN GERCHMAN, Ph.D. B.S., University of Scranton; M.S., Creighton University. Anatomy. Major Professor: Rex E. Carrow, Assistant Professor. Thesis: Effects of Long Term Physical Training Upon the Histology and Morphology of the Ventral Motor Neurons.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- WILLIAM ELLIS GIDDENS, JR., Ph.D. D.V.M., Iowa State University; M.S., Michigan State University. Pathology. Major Professor: Charles K. Whitehair, Professor. Thesis: The Pathology of Chronic Respiratory Disease in the Rat.
- PETER M. GRAHAM, Ph.D. B.S., M.S., University of Toronto. Electrical Engineering. Major Professor: James A. Resh, Associate Professor. Thesis: A State-Variable Approach to Time-Varying Equivalent Networks.
- BENNIE DWANE GRAVES, Ph.D. B.S., West Texas State University; M.A., University of Texas. Social Science. Major Professor: Donald W. Olmsted, Professor. Thesis: Interaction Networks and Industrial Efficiency in Pipeline Construction.
- JOHN E. GRIGGS, Ph.D. B.S., M.B.A., Michigan State University. Business Administration (Marketing). Major Professor: Charles C. Slater, Professor. Thesis: Evaluating the Consequences of Marketing Change: An Application of Systems Theory.
- HARRY JOSEPH GROULX, Ed.D. B.S., M.A., Central Michigan University. Education. Major Professor: Troy L. Stearns, Professor. Thesis: A Study of the Influence of Selected Factors on the Elementary School Principal's Role in Curriculum Development as Perceived by Selected Elementary School Teachers and Elementary School Principals.
- DOUGLAS MACARTHUR HANSON, Ph.D. B.A., Nasson College. Biochemistry. Major Professor: James L. Fairley, Professor. Thesis: The Purification and Partial Characterization of Associated Deoxyribonuclease, Ribonuclease, and 3'-Nucleotidase Activities of Wheat Seedlings.
- ABOU-BAKR SOLIMAN HAZZAH, Ph.D. B.S.M.E., Cairo University; M.S.M.E., University of California. Mechanical Engineering. Major Professor: James V. Beck, Associate Professor. Thesis: Transient Heat Transfer by Simultaneous Conduction and Radiation in Absorbing, Emitting and Scattering Medium.
- NORMAN EMIL HEFKE, Ed.D. B.S., State University New York Teacher's College; M.A., Syracuse University. Education. Major Professor: Eldon R. Nonnamaker, Professor. Thesis: A Study of the Relationship Between Authoritarianism and Resident Assistant Effectiveness.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- ROBERT WHITE HODGE, Ph.D.      B.S., M.A., Central Michigan University.  
History. Major Professor: Warren I. Cohen, Assistant Professor.  
Thesis: Lining Up Latin America: The United States Attempts to  
Bring About Hemispheric Solidarity, 1939-1941.
- ROBERT LAWRENCE HOHN, Ph.D.      B.S., Ursinus College; M.A., Michigan State University.  
Education. Major Professor: Clessen J. Martin, Professor.  
Thesis: The Relationship Between Mediational Style and the Asso-  
ciative Learning Ability of Children.
- MARTIN ELLIOT HOLLANDER, Ed.D.      B.S., M.S., Wayne State University.  
Education. Major Professor: Max R. Raines, Associate Professor.  
Thesis: A Survey of Social-Regulatory Practices in Selected Michigan  
Community Colleges.
- JOHN G. JANSSEN, Ph.D.      B.S., Fenn College; M.S., Michigan State University.  
Civil Engineering. Major Professor: Robert K. Wen, Professor.  
Thesis: A Non-Linear Dynamic Analysis of Line Structural Members.
- ALBERT JOSEPH JETTY, Ph.D.      B.S., Northern Michigan University.  
Audiology and Speech Science. Major Professor: William F. Rintel-  
mann, Associate Professor.  
Thesis: Effect of Acoustic Coupler on Aided Speech Reception Thresh-  
olds and Speech Discrimination Sources Using a Cros Hearing Aid.
- DUANE REED JOHNSON, Ed.D.      B.S., Central Michigan University; M.A., Michigan State University.  
Education. Major Professor: Robert O. Nolan, Associate Professor.  
Thesis: A Case Study Analysis of Motorcycle Accidents in Three Illi-  
nois Counties.
- ROBERT EDWIN JOHNSON, Ph.D.      B.A., The Ohio State University; B.D., Western Theological Seminary;  
M.A., Michigan State University.  
Education. Major Professor: Russell J. Kleis, Associate Professor.  
Thesis: A Study of the Self-Esteem and Related Background Factors  
of New Reformatory Inmates.
- HOWELL THOMAS JONES, JR., Ph.D.      B.S., Virginia State College; M.M., University of Michigan.  
Music. Major Professor: Robert G. Sidnell, Associate Professor.  
Thesis: The Relationship of Selected Factors and Music Reading  
Achievement.
- PHILLIP ANDREW JONES, SR., Ph.D.      B.A., M.A., Harput College.  
Business Administration (Accounting). Major Professor: Gardner M.  
Jones, Professor.  
Thesis: Railroad Financial Reporting and Auditor Responsibility.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- SELASHE KEBEDE, Ph.D. B.S., Imperial Ethiopian College; M.S., University of Rhode Island. Poultry Science. Major Professor: Lawrence E. Dawson, Professor. Thesis: Technological Preparation and Market Development of Poultry Products.
- FREDERIC EBELING KELLER, Ed.D. B.S., University of Pennsylvania; M.A., Michigan State University. Education. Major Professor: William V. Hicks, Professor. Thesis: A Comparative Study of Selected Background Factors Related to Achievement of Mentally Able Fifth and Sixth Grade Children.
- K. MORGAN KELLEY, JR., Ph.D. B.A., Washington and Lee University; M.A., Michigan State University. German, Language and Literature. Major Professor: Stuart A. Gallacher, Professor. Thesis: Fischart's Use of the Proverb as a Stylistic Device in his Geschichtklitterung.
- DEANE ALWYN KEMPER, Ph.D. B.A., Wheaton College; B.D., Gordon Divinity School. Speech and Theatre. Major Professor: Kenneth G. Hance, Professor. Thesis: John F. Kennedy Before the Greater Houston Ministerial Association, September 12, 1960: The Religious Issue.
- O. FRANKLIN KENWORTHY, Ph.D. B.A., College of Wooster; M.A., University of Illinois. Theatre. Major Professor: E. C. Reynolds, Associate Professor. Thesis: A Study of Non-student Educational Theatre Attenders in Selected Heartland Colleges and Universities.
- ANWAR KHALIL KHAN, Ph.D. B.A., St. John's College; B.Ed., Aligarh Muslim University; M.A., Beirut American University. Education. Major Professor: John H. Suehr, Associate Professor. Thesis: Adoption and Internalization of Educational Innovations Among Teachers in the Pilot Secondary Schools of West Pakistan.
- CALVIN REGINALD KING, JR., Ph.D. B.S., Union College; M.A., Michigan State University. Psychology. Major Professor: Lucy R. Ferguson, Professor. Thesis: Verbal Conditioning and Transfer Effects in an Interview Setting.
- WILLIAM RUDOLPH KINNEY, JR., Ph.D. B.S., M.S., Oklahoma State University. Business Administration (Accounting). Major Professor: Gardner M. Jones, Professor. Thesis: An Environmental Model for Performance Measurement in Multi-Outlet Businesses.
- GERHARD WALTER KNUTSON, Ph.D. B.A., College of Saint Thomas; M.S., Michigan State University. Mathematics. Major Professor: Patrick H. Doyle, Professor. Thesis: A Characterization of Certain Closed 3-Manifolds.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- LAWRENCE LEROY KOPPIN, Ph.D.      B.S., Iowa State College; M.A., Bob Jones University; B.D., Grace Theological Seminary.  
Education. Major Professor: William W. Farquhar, Professor.  
Thesis: A Comparison of the Linear and a Configural Scoring Technique for Scoring An Objective Test of Academic Motivation.
- RICHARD JOHN KRAFT, Ph.D.      A.B., Wheaton College; M.S., Northern Illinois University.  
Education. Major Professor: Carl H. Gross, Professor.  
Thesis: Student Background, University Admission, and Academic Achievement in the Universities of Thailand.
- MONG SHANG KUO, Ph.D.      B.S., Taiwan Provincial College; M.S., Michigan State University.  
Botany and Plant Pathology. Major Professor: Robert P. Scheffer, Sr., Professor.  
Thesis: Comparative Effects of *Helminthosporium Carbonum* and *Helminthosporium Victoriae* Toxins on Susceptible Plant Tissues.
- DONALD WALTER LARSON, Ph.D.      B.S., South Dakota State University; M.S., Michigan State University.  
Agricultural Economics. Major Professor: Harold M. Riley, Professor.  
Thesis: A Diagnosis of Product and Factor Market Coordination in the Bean Industry of Northeast Brazil.
- LEWIS M. LATTA, D.B.A.      B.S., Tri-State College; M.B.A., Michigan State University.  
Business Administration (Personnel). Major Professor: Darab B. Unwalla, Associate Professor.  
Thesis: Occupational Attitudes of Over-the-Road Truck Drivers: An Exploratory Survey.
- VIRGINIA LATTES-CASSERES, Ph.D.      M.E., Pennsylvania State University.  
Education. Major Professor: Twyla M. Shear, Associate Professor.  
Thesis: Teaching Home Management Through Simulation and Other Methods: An Experimental Study.
- MARVIN DALE LEAVY, Ph.D.      B.A., University of Michigan; M.A., Michigan State University.  
Sociology. Major Professor: Jay W. Artis, Professor.  
Thesis: Status Inconsistency, Social Mobility, and Politico-Economic Orientations Among a Sample of Junior College Instructors.
- RALPH LEONARD, Ph.D.      B.A., B.S., Central Michigan University; M.A., Michigan State University.  
Audiology and Speech Science. Major Professor: Herbert J. Oyer, Professor.  
Thesis: Facial Movements of Males and Females While Producing Common Expressions and Sentences by Voice and by Whisper.

# SCHOOL FOR ADVANCED GRADUATE STUDIES

## DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

LAWRENCE ROBERT LERNER, Ph.D.

B.S., City University of New York.  
Chemistry. Major Professor: Harold Hart, Professor.  
Thesis: Part I. Direct Oxidation of Alkenes to Ketones Using Peroxy-trifluoroacetic Acid-Boron Fluoride. Part II. The Acid-Catalyzed Rearrangement of Octamethyl-8-Oxatetracyclo [4.3.0.0.<sup>2,5</sup>.0<sup>7,9</sup>] non-3-ene.

JAMES I. LINDEN, Ph.D.

B.A., University of Michigan; M.A., Michigan State University.  
Psychology. Major Professor: John R. Hurley, Professor.  
Thesis: The College Undergraduate as Play Therapist: A Study of Selection and Training Techniques.

RICHARD MARK MAJETIC, Ph.D.

B.S., St. Benedict's College; M.S., Hofstra College.  
Education. Major Professor: Buford Steffle, Professor.  
Thesis: Career Patterns of Selected Michigan Secondary School Counselors.

ISIS SAAD MANSOUR, Ph.D.

B.S., Cairo University; M.S., Michigan State University.  
Botany and Plant Pathology. Major Professor: Robert P. Scheffer, Professor.  
Thesis: Effect of the Primary Determinant of Pathogenicity From *Periconia Circinata* on *Sorghum Vulgare*.

STUART A. MARKS, Ph.D.

B.S., North Carolina State University; M.S., Michigan State University.  
Fisheries and Wildlife. Major Professor: George A. Petrides, Professor.  
Thesis: The Role of Classification and Belief in Bisa Use of Mammalian Resources.

BRIAN WILLIAM MAXEY, Ph.D.

B.S., Purdue University.  
Chemistry. Major Professor: Alexander I. Popov, Professor.  
Thesis: Spectroscopic Studies of Alkali Metal Salt Solvation in Dialkylsulfoxides.

JAMES N. McELEARNEY, Ph.D.

B.S., Stanford University; M.S., Michigan State University.  
Physics. Major Professor: Harold Forstat, Professor.  
Thesis: Low Temperature Adiabatic Studies of Magnetic Phase Boundaries in Antiferromagnets.

DOUGLAS RICH MCKAY, Ph.D.

B.A., University of Utah; M.A., University of Oregon.  
Spanish, Language and Literature. Major Professor: John A. Ramsey, Professor.  
Thesis: The Avant-Garde Theater of Miguel Mihura.

JAMES RAY MELTON, Ph.D.

B.S., Texas Technological College; M.S., Michigan State University.  
Soil Science. Major Professor: Boyd G. Ellis, Professor.  
Thesis: Zinc Levels in Soils as Related to Zinc Uptake and Yield of *Phaseolus Vulgaris*.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- DONALD PAUL MEYER, Ed.D. B.S., Central Michigan University; M.A., University of Michigan. Education. Major Professor: Max S. Smith, Professor.  
Thesis: An Investigation of Perceptions Regarding the Instructional Function of the Library Among Faculty Members and Librarians at Public Community Colleges in Michigan.
- RICHARD EUGENE MILLER, Ph.D. B.S., Eastern Michigan University; B.D., Northern Baptist Seminary. Education. Major Professor: James W. Costar, Professor.  
Thesis: A Study of Significant Elements in the On-The-Job Behavior of College and University Foreign Student Advisers.
- RICHARD HERBERT MONHEIMER, Ph.D. B.S., Syracuse University; M.S., Michigan State University. Fisheries and Wildlife. Major Professor: Peter I. Tack, Professor.  
Thesis: Some Ecological Considerations of the Toxin of *Clostridium Botulinum* Type E in the Lake Michigan Ecosystem.
- CLYDE D. J. MORRIS, Ph.D. B.A., M.A., California State College. Communication. Major Professor: Randall P. Harrison, Associate Professor.  
Thesis: Information as a Construct in Human Communication Systems.
- JOHN MARTIN MORRIS, Ph.D. A.B., A.M., University of Michigan; B.D., Starr King School. Philosophy. Major Professor: Rhoda H. Kotzin, Associate Professor.  
Thesis: Types of Certainty in the Foundations of the Sciences in the Philosophy of Rene Descartes.
- NARAYAN PRASAD MUKHERJEE, Ph.D. B.S., St. Stephen's College; M.S. Delhi University. Mathematics. Major Professor: Eugene W. Deskins, Professor.  
Thesis: The Hyperquasicenter of a Finite Group.
- ROBERT WHITE NASON, Ph.D. B.S., University of Colorado; M.B.A., Michigan State University. Business Administration (Marketing). Major Professor: Charles C. Slater, Professor.  
Thesis: Urban Market Processes in Recife, Brazil.
- DONALD BERNARD NEUMAN, Ph.D. B.S., University of Wisconsin; M.A.T., Michigan State University. Education. Major Professor: John M. Mason, Professor.  
Thesis: The Influence of Selected Science Experiences on the Attainment of Concrete Operations by First Grade Children.
- RICHARD LEWIS NEWTON, Ph.D. B.S., M.A., Western Michigan University. Education. Major Professor: Troy L. Stearns, Professor.  
Thesis: A Study of Change in Teachers' Self-Expressed Attitudes in Six Areas of Human Relations as Affected by a University Staffed Work Shop.



# SCHOOL FOR ADVANCED GRADUATE STUDIES

## DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

JOHN LOVE NORMAN, Ph.D.

A.B., Northeastern State College; M.M., University of Oklahoma.  
Music. Major Professor: Joseph Evans, Professor.  
Thesis: A Historical Study of the Changes in Attitudes Toward the Teaching of Piano Technique From 1800 to the Present Time.

FREDERICK MOSES OKATCHA, Ph.D.

B.A., M.A., Michigan State University.  
Education. Major Professor: Clessen J. Martin, Professor.  
Thesis: Recall and Comprehension as a Function of Mode of Presentation and Transformational Complexity in Connected Discourse.

STUART LEE OPENLANDER, Ed.D.

A.B., Albion College; A.M., University of Michigan.  
Education. Major Professor: Clyde M. Campbell, Professor.  
Thesis: The Development of an Administrative Structure in a Middle-Sized City School District.

WILLIAM NORTON ORR, Ph.D.

B.S., University of Oklahoma; M.A., University of California.  
Geology. Major Professor: Jane E. Smith, Associate Professor.  
Thesis: The Distribution of Planktonic Foraminifera in the Northwest Gulf of Mexico.

FRED J. PEABODY, Ph.D.

B.S., M.S., Michigan State University.  
Education. Major Professor: Russell J. Kleis, Associate Professor.  
Thesis: An Analysis of Critical Incidents for Recently Employed Michigan Cooperative Extension Agents With Implications for Training.

KENNETH ROY PHILP, Ph.D.

B.A., Michigan State University; M.A., University of Michigan.  
History. Major Professor: Madison Kuhn, Professor.  
Thesis: John Collier and the American Indian, 1920-1945.

MARJORIE A. PREMO PICKERING, Ph.D.

B.S., Michigan State University; M.Ed., Wayne State University; M.A., University of Michigan.  
Education. Major Professor: John Wagner, Professor.  
Thesis: An Investigation of Children's Learning of Some Concepts and Principles Which Enable Them to Perform Examples of Addition of Common Fractions.

JAMES LAWRENCE RAE, Ph.D.

B.A., Graceland College; M.S., Michigan State University.  
Physiology. Major Professor: Jack R. Hoffert, Assistant Professor.  
Thesis: Normal Lens Potential of the Rainbow Trout (*Salmo gairdneri*).

SAROJA N. RAMAN, Ph.D.

B.S., M.S., University of Delhi.  
Chemistry. Major Professor: Carl H. Brubaker, Jr., Professor.  
Thesis: The Kinetics of the Oxidation of Substituted 2,2'-Bipyridine and 1, 10-Phenanthroline Complexes of Iron (II) With Peroxydisulfate Ions.

# SCHOOL FOR ADVANCED GRADUATE STUDIES

## DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- GERHARD JOHN REIMER, Ph.D. B.A., Goshen College; M.A., Michigan State University.  
German, Language and Literature. Major Professor: Mark O. Kistler, Professor.  
Thesis: The *Schwärmer* in the Novelistic Writings of Christopher Martin Wieland.
- BRENT DAVIS RICHARDS, Ph.D. B.S., University of Michigan; M.S., Florida State University.  
Physiology. Major Professor: Paul O. Fromm, Professor.  
Thesis: Sodium Uptake by Isolated, Perfused Gills of Rainbow Trout (*Salmo gairdneri*), With Special Reference to Patterns of Gill Blood Flow.
- JAMES WELLING RICHARDS, Ph.D. B.S., M.S., Michigan State University.  
Mathematics. Major Professor: Eugene W. Deskins, Professor.  
Thesis:  $C\pi$ -Partitions of Finite Groups.
- RONALD WARREN RICHARDS, Ph.D. B.A., Miami University; M.A., Michigan State University.  
Education. Major Professor: Samuel A. Moore, II, Associate Professor.  
Thesis: The Relationships of Certain Structural Characteristics of Hospital Wards and the Role Conflict and Job Satisfaction of Nurses.
- LARRY PAUL RITZMAN, D.B.A. B.S., M.B.A., University of Akron.  
Business Administration (Production). Major Professor: John F. Muth, Professor.  
Thesis: The Efficiency of Computer Algorithms for Plant Layout.
- DAVID HAROLD ROAT, Ph.D. B.A., Albion College; M.A., Michigan State University.  
Education. Major Professor: Frank H. Blackington, Professor.  
Thesis: Professionalization and the Michigan Federation of Teachers: An Analysis of Activities and Structure.
- PHILIP CLARK RYMERS, Ph.D. B.I.E., General Motors Institute; M.S., University of Toledo.  
Mechanics. Major Professor: William A. Bradley, Professor.  
Thesis: Application of a Discrete Element Model to the Study of the Static and Dynamic Stability of Bars, Arches, and Rings.
- ROBERT MARK SAXE, Ph.D. B.S., University of Wisconsin; M.A., Michigan State University.  
Psychology. Major Professor: Gary E. Stollak, Assistant Professor.  
Thesis: The Relationship Between Maternal Behaviors and a Child's Curiosity and Play Behavior.
- CHARLES THEODORE SCHMIDT, JR., Ph.D. B.S., University of Massachusetts; M.A., Cornell University; M.B.A., Northeastern University.  
Social Science. Major Professor: Charles P. Larowe, Professor.  
Thesis: Organizing for Collective Bargaining in Michigan Education: 1965-1967.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- WENDELIN SCHMIDT, Ph.D.      B.S., Indiana Institute of Technology; M.S., Michigan State University. Mechanical Engineering. Major Professor: Maria Z. v. Krzywoblocki, Professor.  
Thesis: Thermal Radiation and Magnetic Field Effects on the Flow Variables Near a Stagnation Point.
- DAVID VAUGHN SCHULTZ, Ph.D.      A.B., Central Michigan University; M.A., University of Michigan. Education. Major Professor: Laurine E. Fitzgerald, Professor.  
Thesis: An Evaluation of the Effect of a United States Office of Education Talent Search Project on the Academic Performance of M-Scale-Identified Low-Motivated Ninth Grade Michigan Students.
- ROBERT ROLAND SCHULZ, Ed.D.      A.B., M.A., Western Michigan University. Education. Major Professor: Fred J. Vescolani, Professor.  
Thesis: Role Expectations for the School Social Worker.
- ROBERT MARTIN SCREEN, Ph.D.      B.S., Hampton Institute; M.A., New York University. Audiology and Speech Science. Major Professor: Herbert J. Oyer, Professor.  
Thesis: A Study of Auditory Differential Sensitivity to Intensity in Children and Adults.
- MOHAMMAD ANSAR AHMED SHAMI, Ph.D.      B.S., Punjab Agricultural College; M.S., Washington State University. Education. Major Professor: Harold M. Byram, Professor.  
Thesis: Information-Transmission Function of Vocational Agriculture Students' Activities and the Exposure of Their Parents to Agricultural Information Through Such Activities.
- WAYNE WINSTON SHARP, Ph.D.      B.A., M.S., Texas A & M University. Agricultural Economics. Major Professor: Dale E. Hathaway, Professor.  
Thesis: Trade Relations Between the EEC and COMECON: Implications for U.S. Agricultural Trade Policy.
- DELBERT WALLACE SHIRLEY, III, Ph.D.      B.S., M.Ag. Ed., Oregon State University. Education. Major Professor: Guy E. Timmons, Professor.  
Thesis: Normative Expectations Held by Agriculture Teachers and Their Significant Others of the Professional Role of the Agriculture Teacher in the Vocational Agriculture Schools and Colleges in Thailand.
- MILES EDWARD SIMPSON, Ph.D.      B.A., M.A., Michigan State University. Sociology. Major Professor: Fred B. Waisanen, Professor.  
Thesis: Status Inconsistency, Social Mobility, Self, and Society.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- JO ANN SINCLAIR, Ph.D.      B.A., M.A., Western Michigan University.  
Psychology. Major Professor: M. Ray Denny, Professor.  
Thesis: Imitation Learning in the Severely Retarded.
- WILLIAM EDWARD SMELTZER, Ph.D.      B.A., Pennsylvania State University; M.A., Michigan State University.  
Psychology. Major Professor: Albert I. Rabin, Professor.  
Thesis: Time Orientation and Time Perspective in Psychotherapy.
- LOIS ANN SMITH, Ed.D.      B.A., Western Michigan University; M.A., University of Michigan.  
Education. Major Professor: William V. Hicks, Professor.  
Thesis: The Relationship Between Expectations for Children's Behavior and the Self Structure in College Education Students.
- LAWRENCE EDMUND SNEDEN, II, Ph.D.      B.A., M.A., Michigan State University.  
Sociology. Major Professor: Frederick B. Waisanen, Professor.  
Thesis: Factors Involved in Upward Social Mobility From the Culture of Poverty.
- JAMES LEWIS SNELGROVE, Ph.D.      B.S., Tennessee Technological University; M.S., Michigan State University.  
Physics. Major Professor: Edwin Kashy, Professor.  
Thesis: Energy Dependence and Spectroscopy in the  $^{16}\text{O}(\text{p},\text{d})^{15}\text{O}$  and  $^{15}\text{N}(\text{p},\text{d})^{14}\text{N}$  Reactions.
- LEONARD PAUL SOHACKI, Ph.D.      B.S., M.S., Michigan State University.  
Fisheries and Wildlife. Major Professor: Robert C. Ball, Professor.  
Thesis: Dynamics of Arsenic in the Aquatic Environment.
- NANCY JEAN SONNEVELDT, Ph.D.      A.B., Hope College; M.A., University of Michigan.  
English. Major Professor: Russel B. Nye, Professor.  
Thesis: Analysis of an Early Nineteenth-Century American Periodical, the *Spirit of the Pilgrims*, With Emphasis on Religious Controversy, Revivalism, and Social Reform.
- ZANE ANDRE SPINDLER, Ph.D.      B.S., Wisconsin State University; M.S., Michigan State University.  
Economics. Major Professor: Paul E. Smith, Associate Professor.  
Thesis: The Short-Run Impact of an *Ad Valorem* Excise Tax on the Automobile Market: A Dynamic Approach.
- RAM MOHAN SRIVASTAVA, Ph.D.      B.S., Banaras Hindu University; M.S., Michigan State University.  
Mechanical Engineering. Major Professor: Maria Z. v. Krzywoblocki, Professor.  
Thesis: Generalization of Normal Shock Theorems to Magnetogas-dynamics With Radiation.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

GEORGE SHELDON STEVENS, Ph.D.

B.Th., Atlantic Union College; M.A., B.D., Andrews University.  
Speech and Theatre. Major Professor: Kenneth G. Hance, Professor.  
Thesis: A Study of the Homiletical Theory of Roy Allan Anderson.

EDITH ETTA STEWARD, Ph.D.

B.S., Alderson-Broadbush College; M.S., University of Oklahoma.  
Microbiology and Public Health. Major Professor: Walter N. Mack, Professor.  
Thesis: Demonstration of Papovavirus in Human Wart Tissue by Electrophoresis.

CYRUS SHEPARD STEWART, Ph.D.

B.A., M.A., Michigan State University.  
Sociology. Major Professor: John C. Howell, Professor.  
Thesis: Status Correlates of Delinquent Behavior.

MARY LOU STEWART, Ph.D.

B.A., Smith College and Oberlin College; M.A., Western Reserve University.  
Education. Major Professor: Janet A. Wessel, Professor.  
Thesis: A Study of the Interrelationships of Selected Mechanical, Skeletal, and Anthropometric Variables, and Skilled Performance in the Standing Long Jump for Three and One Half Year Old Girls.

WILLIAM HENRY STOCK, Ph.D.

B.A., University of Miami; M.S., Purdue University.  
Theatre. Major Professor: E. C. Reynolds, Associate Professor.  
Thesis: Some Psychological and Physiological Factors Affecting Excellence in Acting.

HERBERT NATHAN  
STOUTENBURG, JR., Ed.D.

B.A., M.A., Michigan State University.  
Education. Major Professor: Max S. Smith, Professor.  
Thesis: Oakland University: Its First Four Years. An Historical Analysis of Its Development and Its Administrative Policies.

WALTER LEROY STUMP, Ph.D.

A.B., Bethel College; M.A., Michigan State University.  
Education. Major Professor: John E. Jordan, Associate Professor.  
Thesis: Early and Late Dimensions of Client-Perceived Therapist Self-Disclosure as They Relate to Constructive Client Change and to Outcome in Psychotherapy.

SUBHASH CHANDER SUD., Ph.D.

B.V.Sc., Punjab Veterinary College; M.V.Sc., Post Graduate College of India.  
Physiology. Major Professor: Joseph Meites, Professor.  
Thesis: Hormonal Requirements for Mammary Growth and Lactation in Several Species of Animals.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- PETHINAIDU SURULINARAYANASAMI, Ph.D. B.E., P.S.G., College of Technology; M.Sc., Government College of Engineering.  
Civil Engineering. Major Professor: James L. Lubkin, Professor.  
Thesis: Stress Analysis of the Adhesive Scarf Joint Between Dissimilar Adherends.
- FRED CARLTON SWOPE, Ph.D. B.S., University of Maryland.  
Food Science. Major Professor: Jay R. Brunner, Professor.  
Thesis: Characteristics of Membrane Lipoprotein Fractions from Cow's Milk.
- FARHAD TABADDOR, Ph.D. B.S., Tehran University; M.S., Michigan State University.  
Mechanics. Major Professor: Robert W. Little, Professor.  
Thesis: Constitutive Equations and the Solution of Some Problems of Interacting Continuous Media.
- ROBERT HAROLD TERBORG, Ph.D. B.S., Calvin College; M.A., Michigan State University.  
Psychology. Major Professor: Donald M. Johnson, Professor.  
Thesis: Dissipation of Functional Fixedness by Means of Conceptual Grouping Tasks.
- ROBERT A. H. THAMM, Ph.D. B.S., Drake University; M.S., Northern Illinois University.  
Sociology. Major Professor: Frederick B. Waisanen, Professor.  
Thesis: Self Autonomy-Heteronomy, Consistency and Intersystemic Involvement.
- GARY L. THOMPSON, Ph.D. B.A., M.A., University of Oklahoma.  
Geography. Major Professor: Clarence L. Vinge, Professor.  
Thesis: Employment in Michigan's State Government: A Geographic Analysis.
- TOMMIE RAY THOMPSON, Ph.D. B.S., Lamar State College; M.S., Oklahoma State University.  
Mechanics. Major Professor: Robert W. Little, Professor.  
Thesis: End Effect in a Truncated Semi-Infinite Wedge and Cone.
- JAMES J. TOBOLSKI, Ph.D. B.S., Michigan State University; M.F., Yale University.  
Forestry. Major Professor: James W. Hanover, Associate Professor.  
Thesis: Variations in Monoterpenes in Scotch Pine (*Pinus sylvestris* L.)
- JEFFREY LYNN TOLLEFSON, Ph.D. B.S., University of Idaho; M.S., Michigan State University.  
Mathematics. Major Professor: Kyung W. Kwun, Professor.  
Thesis: Properties of 3-Manifolds Which Admit a Free Cyclic Group Action.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

RICHARD JOHN TONDRA, Ph.D.

B.S., University of Notre Dame; M.S., Michigan State University. Mathematics. Major Professor: Patrick H. Doyle, Professor.  
Thesis: The Set of Generating Domains for Certain Manifolds.

VENKATA M. TUMMALA, Ph.D.

B.A., Sir C. R. Reddy College; M.S., Michigan State University. Business Administration (Management). Major Professor: Harold H. Wein, Professor.  
Thesis: Alternative Methods of Estimation in the Demand for Natural Gas.

JOHN WILLIAM TUTTLE, Ph.D.

B.S., M.S., University of Kentucky. Poultry Science. Major Professor: John H. Wolford, Assistant Professor.  
Thesis: Consumer Testing of Scramble Egg-Solids.

DIANA RUTH UMSTATTD, Ed.D.

B.S., Central Michigan University; M.A., Teachers College of Columbia University. Education. Major Professor: Lee S. Shulman, Professor.  
Thesis: A Comparative Study of Two Methods of Teaching Spelling to Low-Achieving Eighth-Grade Students.

ROBERT GLENN UNDERHILL, Ed.D.

B.S., M.A.T., Purdue University. Education. Major Professor: W. Robert Houston, Professor.  
Thesis: The Relation of Elementary Student Teacher Empathy (Affective Sensitivity) Change to Supervising Teacher Empathy and Student Teaching Success.

DON FRANKLIN WAGNER, Ph.D.

B.S., M.S., Kansas State University. Soil Science. Major Professor: John F. Davis, Professor.  
Thesis: The Influence of Inorganic Nutrition on the Nutritional Value of Sanilac Pea Beans.

JAMES PATRICK WEBER, Ph.D.

B.A., Immaculate Conception College, Inc. Education. Major Professor: Louise M. Sause, Associate Professor.  
Thesis: Selected Characteristics of the Child's Social Environment and the Relationship of These Characteristics to Subsequent Measures in Head Start Classes.

PETER G. WEBER, Ph.D.

B.A., University of Wisconsin; M.S., Michigan State University. Zoology. Major Professor: James C. Braddock, Professor.  
Thesis: Visual Aspects of Egg Care Behavior in *Cichlasoma Nigrofasciatum* (Günther.)

THOMAS CLIFFORD WEHMAN, Ph.D.

B.S., Northern Illinois University. Chemistry. Major Professor: Alexander I. Popov, Professor.  
Thesis: Basicity and Complexation Properties of Substituted Tetrazoles.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1968 (Continued)

- |                                 |   |
|---------------------------------|---|
| FRANCINE TODER WEINSTEIN, Ph.D. | B.A., City College of The City University of New York.<br>Education. Major Professor: Norman Stewart, Associate Professor.<br>Thesis: The Effect of Personality Type on Systematic Desensitization and Structured Group Interaction in Reducing Examination Anxiety.            |
| RAY EDWARD WEISENBORN, Ph.D.    | B.S., Portland State College; M.A., Eastern New Mexico University.<br>Speech and Theatre. Major Professor: James McCroskey, Assistant Professor.<br>Thesis: An Experimental Study of the Effects of Communication Media on Source Credibility.                                  |
| RONALD PAUL WHITE, SR., Ph.D.   | B.S., State College at Bridgewater; M.S., University of Massachusetts.<br>Soil Science. Major Professor: Eugene C. Doll, Professor.<br>Thesis: Acidity of Soil and Fertilizer Bands as Related to Manganese Toxicity and Manganese Uptake by Potatoes and Oats in a Greenhouse. |
| WILLIAM ALAN WICHERS, Ed.D.     | A.B., Hope College; M.A., Western Michigan University.<br>Education. Major Professor: Walter F. Johnson, Professor.<br>Thesis: A Study of Due Process and Student Discipline in the Publicly Supported Colleges and Universities of the State of Michigan.                      |
| EUNICE ANN WILCOX, Ph.D.        | B.M., University of Michigan; M.A., Western Michigan University.<br>Music. Major Professor: George Duerksen, Assistant Professor.<br>Thesis: The Effects on Sight Singing of Voice Class Instruction Utilizing Variants of Traditional Vocalises.                               |
| JOHN WALTER WINGATE, Ph.D.      | B.S., M.S., Michigan State University.<br>Electrical Engineering. Major Professor: Theodore Guinn, Assistant Professor.<br>Thesis: On Optimal Fields for Differential Games.  |
| HARRY IRA WOLK, Ph.D.           | B.S., University of Pennsylvania; M.B.A., Michigan State University.<br>Business Administration (Accounting). Major Professor: Bernhard C. Lemke, Professor.<br>Thesis: The Relevant Costing Approach to Asset Valuation and Income Determination: A Critique.                  |
| PARKER MARTIN WORTHING, Ph.D.   | B.S., University of Maine; M.B.A., Cornell University.<br>Business Administration (Marketing). Major Professor: W. J. E. Crissy, Professor.<br>Thesis: An Analysis of Perceived Competitive Advantages Within Selected Manufacturer-Distributor Alignments.                     |
| HORST RONALD ZIELKE, Ph.D.      | B.S., University of Illinois.<br>Biochemistry. Major Professor: Richard U. Byerrum, Professor.<br>Thesis: Incorporation of Carbon Dioxide and Acetate Into Nicotine.  |
| GEORGE WILLIS ZIMMER, Ph.D.     | A.B., A.M., University of Detroit.<br>English. Major Professor: William W. Heist, Professor.<br>Thesis: The Attribution of Authorship: A Computerized Method Evaluated and Compared With Other Methods Past and Future.   |

# SCHOOL FOR ADVANCED GRADUATE STUDIES

## EDUCATIONAL SPECIALIST DEGREE — GRADUATED SUMMER TERM, 1968

|                                 |  |
|---------------------------------|--|
| CHARLES DANIEL ALEXANDER, Ed.S. | B.S., Central Michigan University; M.A., Michigan State University.<br>Education. Major Professor: John H. Suehr, Associate Professor. |
| BETTY FAE CHILDS, Ed.S.         | B.F.A., University of Oklahoma; M.A., Michigan State University.<br>Education. Major Professor: Byron H. Van Roekel, Professor.        |
| ANNE ELIZABETH GOLSETH, Ed.S.   | B.A., University of Colorado; M.A., Cornell University.<br>Education. Major Professor: Laurine E. Fitzgerald, Professor.               |
| WILLIAM KAMSTRA, Ed.S.          | A.B., Calvin College; A.M., University of Michigan.<br>Education. Major Professor: Fred J. Vescolani, Professor.                       |
| CORYDON JAMES KERNEN, Ed.S.     | B.A., M.A., Michigan State University.<br>Education. Major Professor: George R. Myers, Professor.                                      |
| GARY PATRICK LIPE, Ed.S.        | B.A., St. Benedict's College; M.A., Michigan State University.<br>Education. Major Professor: Willa Norris, Professor.                 |
| JOYCE KRIEBLE MELLON, Ed.S.     | B.A., Western Michigan University; M.A., University of Michigan.<br>Education. Major Professor: Laurine E. Fitzgerald, Professor.      |
| JEAN H. MOWAT, Ed.S.            | B.S., Auburn University; M.A., Wayne State University.<br>Education. Major Professor: Twyla M. Shear, Associate Professor.             |
| DON SHERIDAN MUELLER, Ed.S.     | B.S.M., Mt. Union College; M.A., University of Michigan.<br>Education. Major Professor: John H. Suehr, Associate Professor.            |
| LESTER JOHN NORTON, Ed.S.       | B.A., Eastern Michigan University.<br>Education. Major Professor: James E. Heald, Professor.   |
| JAMES RAYMOND RYAN, Ed.S.       | B.A., M.A., Michigan State University.<br>Education. Major Professor: Stanley E. Hecker, Professor.                                    |
| HAROLD V. SAUSER, Ed.S.         | A.B., M.A., Western Michigan University.<br>Education. Major Professor: Fred J. Vescolani, Professor.                                  |
| ROBERT L. STIPE, Ed.S.          | B.S., Ohio Northern University; M.A., Michigan State University.<br>Education. Major Professor: Louis G. Romano, Associate Professor.  |
| RICHARD ELBERT TERRY, Ed.S.     | B.S., Wisconsin State University; M.S., University of Wisconsin.<br>Education. Major Professor: George R. Myers, Professor.            |



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DIPLOMA FOR ADVANCED GRADUATE STUDIES — GRADUATED SUMMER TERM, 1968

PETER ALLEN EDMUNDS, D.A.G.

B.A., M.A., University of Richmond.  
English. Major Professor: Lawrence E. Babb, Professor.

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968

YOUSEF MUSTAFA ALKADI, Ph.D.

B.A., M.A., American University; M.A., Michigan State University.  
Education. Major Professor: Troy L. Stearns, Professor.  
Thesis: A Proposed Program of Teacher Education Which Will Use Available Resources to Meet the Needs of Jordan More Effectively.

THOMAS HENRY ALTHUIS, Ph.D.

B.S., M.S., Western Michigan University.  
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.  
Thesis: Exploration of Factors Affecting Asymmetric Induction in Additions to Carbonyls Directly Bonded to Asymmetric Centers.

TERRY GRANT ANDERSON, Ph.D.

B.A., Rockford College.  
Chemistry. Major Professor: Frederick H. Horne, Assistant Professor.  
Thesis: Pure Thermal Diffusion.

DAVID LEE APPEL, D.B.A.

B.A., M.B.A., Michigan State University.  
Business Administration (Marketing). Major Professor: Bernard J. La Londe, Professor.  
Thesis: An Analysis of Consumer Market Segmentation in Response to an Institutional Innovation in the Food Industry.

KEITH HERBERT ASPLIN, Ph.D.

B.S., M.S., University of Wisconsin; M.A., Michigan State University.  
Education. Major Professor: Louise Sause, Associate Professor.  
Thesis: A Study of Factors Related to Satisfaction Among Sophomore Engineering Students at Michigan State University.

THOMAS GORDON BAHR, Ph.D.

B.S., University of Idaho; M.S., Michigan State University.  
Fisheries and Wildlife. Major Professor: Robert C. Ball, Professor.  
Thesis: Electrophysiological Responses of the Lateral Line and Heart to Stresses of Hypoxia, Cyanide, and DDT in Rainbow Trout.

# SCHOOL FOR ADVANCED GRADUATE STUDIES

## CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

- JOHN LESTER BARTELT, Ph.D. B.S., Massachusetts Institute of Technology.  
Chemistry. Major Professor: Frederick H. Horne, Assistant Professor.  
Thesis: Nonequilibrium Thermodynamics of Fluid Mixtures: Principles, Perturbation Methods, and Parameter Estimation.
- ARTHUR ASCHER BAYER, Ph.D. B.A., Brown University; M.B.A., School of Business, New York.  
Economics. Major Professor: Paul E. Smith, Associate Professor.  
Thesis: Disaggregated Analysis of the Shifting of the Corporation Income Tax.
- M. DALE BECKMAN, Ph.D. Th.B., Canadian Nazarene College; B.Sc., University of Alberta;  
M.B.A., University of Western Ontario.  
Business Administration (Marketing). Major Professor: William Lazer, Professor.  
Thesis: The Effects of a Government Investigation on Marketing Practices in the Pharmaceutical Industry.
- HAROLD JOHN BENNER, Ph.D. B.S., Miami University; B.D., McCormick Theological Seminary; M.A., Michigan State University.  
Education. Major Professor: William F. Farquhar, Professor.  
Thesis: Self-Disclosure as a Construct.
- CHARLES RIEDEL BERGER, Ph.D. B.S., Pennsylvania State University; M.A., Michigan State University.  
Communication. Major Professor: Gerald R. Miller, Associate Professor.  
Thesis: The Effects of Influence Feedback and Need Influence on the Relationship Between Incentive Magnitude and Attitude Change.
- DAVID MICHAEL BETZ, Ph.D. B.A., M.A., Michigan State University.  
Sociology. Major Professor: Philip M. Marcus, Associate Professor.  
Thesis: Organizational Correlates of Occupational Orientation and Support of the Negotiating Organization.
- PAUL THOMAS BLOTTER, Ph.D. B.S., M.S., Utah State University.  
Mechanics. Major Professor: David H. Y. Yen, Associate Professor.  
Thesis: Free Periodic Vibrations of Continuous Systems Governed by Non-linear Partial Differential Equations.
- ALBERT GEORGE BOLITHO, Ph.D. B.M., M.M., Wayne State University.  
Music. Major Professor: Corliss R. Arnold, Assistant Professor.  
Thesis: The Organ Sonatas of Paul Hindemith.
- CLIFFORD DEAN BROWN, Ph.D. B.S., Rochester Institute of Technology; M.S.B.A., Bucknell University.  
Business Administration (Accounting). Major Professor: Roland Salmonson, Professor.  
Thesis: The Balance Sheet to the Income Statement: A Study in the History of Accounting Thought.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

GREG ALAN BULLOCK, Ph.D.

B.S., M.S., Ohio University.  
Chemistry. Major Professor: Eugene LeGoff, Associate Professor.  
Thesis: Part I. Studies Concerned with the Synthesis of Octalene and Bicyclo [6.2.0] Deca-1,3,5,7,9-Pentaene.  
Part II. The Rearrangements of Monosubstituted Cyclooctatetraenes.

JOHN HECTOR CARMICHAEL, Ph.D.

B.S., Suffolk University; M.A., Columbia University.  
Education. Major Professor: Peter G. Haines, Professor.  
Thesis: An Analysis of Activities of Middle Management Personnel in the Retail Trade Industry with Implications for Curriculum Development in Post-Secondary Institutions.

MICHAEL HOVEY CHAPLIN, Ph.D.

B.S., University of Kentucky; M.S., Rutgers University.  
Horticulture. Major Professor: A. L. Kenworthy, Professor.  
Thesis: The Influence of Succinic Acid 2,2-Dimethyl Hydrazide (ALAR) on Fruit Ripening and Vegetative Growth of the Sweet Cherry (*Prunus avium* L.)

SUSAN JANE CONLEY, Ph.D.

B.A., M.A., Michigan State University.  
Psychology. Major Professor: Gary E. Stollak, Assistant Professor.  
Thesis: Strategies of Maneuvers During the Acquaintance Process.

GLENN A. CORLISS, Ph.D.

A.B., Albion College; M.S., Michigan State University.  
Food Science. Major Professor: LeRoy Dugan, Jr., Professor.  
Thesis: Phospholipid Oxidation in Emulsions.

WILSON HUXLEY COULTER, Ph.D.

B.S.A., M.S.A., University of Toronto.  
Microbiology and Public Health. Major Professor: Ralph N. Costlow, Professor.  
Thesis: The Role of Barbituric Acid in the Nutrition of *Bacillus Popilliae*.

JOSEPH CARTER CRIGLER, Ph.D.

B.S., Virginia Polytechnic Institute; M.S., Michigan State University.  
Food Science. Major Professor: Lawrence E. Dawson, Professor.  
Thesis: Influence of Preslaughter Injections of Adrenalin and Iodoacetate on pH, Drip and Certain Turkey Muscle Protein Changes During Frozen Storage.

WILLIAM FREDERICK CUTLIP, Ph.D.

B.S., Eastern Illinois University; M.A., University of Illinois.  
Mathematics. Major Professor: William L. Kilmer, Associate Professor.  
Thesis: Synchronization and Decomposition of Finite Automata.

THEODORE JOSEPH CZAJKOWSKI, Ed.D.

B.A., Michigan State University; M.A., University of Michigan.  
Education. Major Professor: W. Robert Houston, Professor.  
Thesis: The Relationship of Confidence for Teaching to Selected Personal Characteristics and Performance of Student Teachers.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

VERDA MAE DALE, Ph.D.

B.S., Kansas State University; M.S., Cornell University.  
Home Management. Major Professor: Beatrice Paolucci, Professor.  
Thesis: An Exploration of the Relationship of Home Managers' Self-Actualization to Participation by Family Members in Home Activities.

GOBIND DARYANANI, Ph.D.

B.S., B.Tech., Calcutta University; M.S., Virginia Polytechnic Institute.  
Electrical Engineering. Major Professor: James A. Resh, Associate Professor.  
Thesis: Foster Distributed-Lumped Network Synthesis.

BURL EDWARD DAVIS, Ph.D.

B.A., David Lipscomb College; M.S., Clemson University.  
Communication. Major Professor: Everett M. Rogers, Professor.  
Thesis: System Variables and Agricultural Innovativeness in Eastern Nigeria.

JAMES BERNARD DERR, Ph.D.

B.A., College of St. Thomas.  
Mathematics. Major Professor: W. Eugene Deskins, Professor.  
Thesis: Generalized Sylow Tower Groups.

NIRMAL SINGH DHESI, Ph.D.

B.A., M.A., Panjab University.  
English. Major Professor: Arnold Williams, Professor.  
Thesis: The Paynims and Saracens of Spenser's *The Faerie Queene*.

FRANK MICHAEL D'ITRI, Ph.D.

B.S., M.S., Michigan State University.  
Chemistry. Major Professor: Alexander I. Pipov, Professor.  
Thesis: The Syntheses and Complexation of Some 1,5-Cyclopoly-methylenetetrazoles and Bitetrazoles.

MICHAEL RICHARD EDGMAND, Ph.D.

B.A., State College of Washington; M.A., Michigan State University.  
Economics. Major Professor: Mordechai Kreinin, Professor.  
Thesis: Concentration, Export Earnings, and the Terms of Trade.

BERNYCE SCOTT EDMONDS, Ph.D.

B.S., Savannah State College; M.A., Columbia University.  
Education. Major Professor: W. Robert Houston, Professor.  
Thesis: The Diffusion of Institute Concepts Beyond the Participants of an NDEA Institute in Critical and Appreciative Reading.

HELEN LOUISE ENGELBRECHT, Ph.D.

A.B., Wittenberg University; M.S., Michigan State University.  
Microbiology and Public Health. Major Professor: Harold L. Sadoff, Professor.  
Thesis: Further Characterization of the Purine Nucleoside Phosphorylases of *Bacillus cereus* Spores and Vegetative Cells.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

THOMAS ASHLIE EVANS, Ph.D.

B.S., Grinnell University.  
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.  
Thesis: Inquiry Concerning the Temperature Dependence of  $\beta$ -Secondary Deuterium Isotope Effects: Solvolysis of Acetyl-d<sub>3</sub> Chloride.

ALBERT ANTON EWALD, Ph.D.

B.A., Sacramento State College; M.B.A., Harvard University.  
Business Administration (Accounting). Major Professor: Roland F. Salmonson, Professor.  
Thesis: A Matrix Allocation Procedure for University Cost Accounting.

MICHAEL RICHARD FERRARI, JR., D.B.A.

B.A., M.A., Michigan State University.  
Business Administration (Personnel). Major Professor: W. Lloyd Warner, Professor.  
Thesis: A Study of the Careers of American College and University Presidents.

RICHARD JOHN FOX, Ph.D.

B.S., University of Dayton; M.S., Michigan State University.  
Statistics. Major Professor: James F. Hannan, Professor.  
Thesis: Contributions to Compound Decision Theory and Empirical Bayes Squared Error Loss Estimation.

ALLEN LEE FRENCH, Ph.D.

B.S., M.S., Michigan State University.  
Entomology. Major Professor: Roger A. Hoopingarner, Associate Professor.  
Thesis: Reductive Dechlorination of p,p-DDT by *Escherichia Coli* and *Pseudomonas aeruginosa*.

DONALD ROSS GILLETTE, Ph.D.

B.M., Michigan State University.  
Education. Major Professor: Vandel C. Johnson, Associate Professor.  
Thesis: The Historical and Philosophical Development of Tuition Fees in United States Colleges and Universities and Attitudes of Michigan State University Parents Toward Fees.

BETTY LOUISE GIULIANI, Ed.D.

B.S., Illinois State Normal University; M.S., Northern Illinois University.  
Education. Major Professor: Buford Steffler, Professor.  
Thesis: A Multivariate Discriminant Analysis of the Relationship Between Selected Characteristics of Entering Students and Their Final Undergraduate Majors.

LORRAINE HAUCK GROSS, Ph.D.

B.S., Valparaiso University; M.A., Michigan State University.  
Theatre. Major Professor: Elwin C. Reynolds, Associate Professor.  
Thesis: The Influence of Thrust and Proscenium Stage Forms on Audience Response to a Production of HAMLET.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

- RUSSELL M. HALYK, Ph.D. B.E., University of Saskatchewan; M.Sc., University of Nebraska. Agricultural Engineering. Major Professor: Bill A. Stout, Professor. Thesis: A Theory of Corn Shelling Based on a Quasi-Static Analysis.
- ROBERT JOSEPH HECK, Ph.D. B.S., University of Detroit; M.S., Michigan State University. Physics. Major Professor: Truman O. Woodruff, Professor. Thesis: Polaron Effects in the Optical Properties of Polar Semiconductors.
- HOWARD WESLEY HICKEY, Ph.D. B.A., Ed.M., Western Washington College; M.A., Bowdoin College. Education. Major Professor: Donald J. Leu, Professor. Thesis: Development of Criteria for Evaluating Alternative Patterns to Reduce School Segregation in the Inner City.
- ROGER POST HILL, Ph.D. B.S., North Carolina State University; M.S., Oklahoma State University. Agricultural Economics. Major Professor: Dale E. Hathaway, Professor. Thesis: Resource Use and Returns on Michigan Fruit Farms.
- NICHOLAS MOORE HIPSKIND, Ph.D. B.S., M.A., Ball State Teachers College. Audiology and Speech Science. Major Professor: William F. Rintellmann, Associate Professor. Thesis: Effects of Experimenter Bias Upon Pure Tone and Speech Audiometric Test Results.
- SHELBY D. HUNT, Ph.D. B.S., Ohio University. Business Administration (Marketing). Major Professor: Bernard J. La Londe, Professor. Thesis: An Analysis of the Effectiveness of Post-Transaction Communications in Reducing Cognitive Dissonance.
- CARROLL G. HYLTON, Ph.D. B.A., Long Beach State College; M.A., University of New Mexico. Speech and Theatre. Major Professor: William B. Lashbrook, Assistant Professor. Thesis: The Effects of Observable Audience Response on Attitude Change and Source Credibility.
- JAMES KEITH IVERSON, Ph.D. B.S., M.S., Michigan State University. Civil Engineering. Major Professor: Robert K. Wen, Professor. Thesis: Dynamic Analysis of Nonlinear Elastic Frames.
- MARGARET ANNETTE JAMES, Ph.D. A.B., Grove City College; M.A., Michigan State University. Education. Major Professor: Troy L. Stearns, Professor. Thesis: The Development of an Evaluative Instrument for Selecting Innovations and the Testing of this Instrument by Comparing the Operational Objectives of the *Science Framework for California Public Schools* and the Stated Objectives of *Introductory Physical Science*.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

- ALICE JEANETTE JASWAL, Ph.D.      B.A., Nebraska State College; M.A., Central Missouri State College. Theatre. Major Professor: Elwin C. Reynolds, Associate Professor. Thesis: Oral Interpretation as a Form of Professional Theatre on the New York Stage from 1945 to 1965.
- ROBERT CARL JUOLA, Ph.D.      B.S., University of Oregon; M.S., Michigan State University. Statistics. Major Professor: Leo Katz, Professor. Thesis: Application of Dynamic Programming Methods to a Problem of Identification by Sequential Experimentation.
- GHAUS MOHAMMED KHATTAK, Ph.D.      B.Sc., Islamin College; M.S., Michigan State University. Forestry. Major Professor: Donald P. White, Professor. Thesis: Early Response of Planted Black Walnut to Site Modification.
- JULIAN JAMES KIELBASO, Ph.D.      B.S., University of Dayton; M.S., Michigan State University. Forestry. Major Professor: Lee M. James, Professor. Thesis: Use and Users of the Kellogg Forest: An Urban-Oriented Area.
- BRUCE C. KLINE, Ph.D.      B.S., Aquinas College; M.S., Michigan State University. Microbiology and Public Health. Major Professor: Delbert E. Schoenhard, Professor. Thesis: Accumulation of Sulfite by a Sulfate-Using Revertant of Salmonella Pullorum and Biochemical Characterization of its Cysteine-Requiring Parent.
- DAVID KENT KLINE, Ph.D.      A.B., Bethany Nazarene College; M.A., Michigan State University. Psychology. Major Professor: James L. Phillips, Associate Professor. Thesis: The Effect of Bargaining Sequence and Type of Payoff Upon Coalition Structure and Stability in the Triad.
- BARRY LEE KNIGHT, Ph.D.      B.A., M.A., Michigan State University. History. Major Professor: Paul A. Varg, Professor. Thesis: American Trade and Investment in China, 1890-1910.
- DAVID OLORUMFEMI KOLAWOLE, Ph.D.      B.S., Bethel College; M.A., Ed.S., Michigan State University. Education. Major Professor: Charles A. Blackman, Professor. Thesis: Assessment of School Programs in Ilorin Province, Nigeria: Primary School Pupils' Views on Occupational Choice.
- JOHN OSCAR KOPF, Ph.D.      A.B., M.A., University of Connecticut. Physics. Major Professor: Aaron Galonsky, Professor. Thesis: Janus: A Realtime Timesharing Computer System for Use in Nuclear Physics Experiments.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

ILZE KRISCIOKAITIS, Ph.D.

B.A., Western Michigan University; M.A., Michigan State University. German, Language and Literature. Major Professor: Mark O. Kistler, Professor.

Thesis: The Women in the Works of Friedrich Hebbel: A Reevaluation.

PAUL EUGENE LAEMMLE, Ph.D.

B.S., M.A., Kent State University.

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

Thesis: A Physiological Investigation of Desensitization Therapy With Public Speaking Anxiety.

FREDERICK ALDEN LEAFGREN, Ph.D.

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

Education. Major Professor: Buford Steffler, Professor.

Thesis: An Investigation of Images of the University and Student Role Expectations.

HERBERT LEE LENON, Ph.D.

B.A., Albion College; M.S., Wayne State University.

Fisheries and Wildlife. Major Professor: Peter I. Tack, Professor.

Thesis: Translocations and Storage Equilibria Involving Sublethal Levels of Dieldrin in Aquatic Ecosystems.

EDWARD JOHN LESSIN, Ph.D.

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

Psychology. Major Professor: Norman Abeles, Professor.

Thesis: Aspects of Structure in Fromm's Marketing Orientation.

CHIN CHENG LIN, Ph.D.

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

Electrical Engineering. Major Professor: Yilmaz Tokad, Professor.

Thesis: An Efficient Algorithm for the Element Values of Mid-Series and Mid-Shunt Low-Pass LC Ladder Networks.

JENG NAN LIN, Ph.D.

B.S., National Taiwan University; M.S., Rutgers University.

Electrical Engineering. Major Professors: Gerald L. Park, Associate Professor and Robert O. Barr, Assistant Professor.

Thesis: Optimal Control Computations for Linear Sampled-Data Systems.

BENNETT HERSCHEL LITHERLAND, Ph.D.

B.S., M.Ed., Bowling Green State University.

Education. Major Professor: Richard L. Featherstone, Professor.

Thesis: An Analysis of Programs for Evaluating Teachers for Tenure in Selected Michigan Public School Districts.

MARY JEAN LONG, Ph.D.

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

Pathology. Major Professor: Alvin E. Lewis, Professor.

Thesis: Hepatic Clearance of Bilirubin in Rabbits.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

- JOSEPH THOMAS LONGO, Ph.D. B.S., University of Detroit; M.S., Michigan State University. Physics. Major Professor: Peter A. Schroeder, Associate Professor. Thesis: The High-Field Galvanomagnetic Properties of  $\text{AuAl}_2$ ,  $\text{AuGa}_2$ , and  $\text{AuIn}_2$ .
- BYRON KENNETH LOVE, Ed.D. B.S., Central Michigan University; M.A., University of Michigan. Education. Major Professor: Donald J. Leu, Professor. Thesis: The Development of a Suggested Instructional Programs Cost Model for K-12 Districts of the State of Michigan.
- JOSEPH WILLIAM MAYO, Ph.D. B.S., University of Massachusetts. Biochemistry. Major Professor: Richard L. Anderson, Associate Professor. Thesis: Metabolism of L-Mannose in *Aerobacter Aerogenes*.
- JOHN E. MCPHERSON, JR., Ph.D. B.S., M.S., San Diego State College. Entomology. Major Professor: Frederick W. Stehr, Assistant Professor. Thesis: Non-Morphological Separation of a *Conophthorus* Population Found on Jack Pine from *Conophthorus Resinosae* Hopkins, with description of a new species, *Conophthorus banksianae* (Coleoptera: Scolytidae).
- DONALD WARREN MERRITT, Ph.D. B.S., M.S., Michigan State University. Geology. Major Professor: William J. Hinze, Professor. Thesis: A Gravitational Investigation of the Scipio Oil Field in Hillsdale County, Michigan, With a Related Study for Obtaining a Variable Elevation Factor.
- HAROLD CHARLES MILLER, Ph.D. A.B., Hiram College; M.S., Michigan State University. Microbiology and Public Health. Major Professor: Donald W. Twohy, Assistant Professor. Thesis: Cellular Immunity to *Leishmania donovani*.
- ALBERT J. MUELLER, Ph.D. B.S., St. Joseph's College. Chemistry. Major Professor: Robert D. Schuetz, Professor. Thesis: Synthesis of Thienyl and Thianaphthenyl Dioxolanes and Thienyl Dicarboxyls.
- DAVID E. MURPHY, Ed.D. B.S., M.S., Illinois State University. Education. Major Professor: Max S. Smith, Professor. Thesis: An Investigation of the Relationship Between Attitudinal Factors Which Influence Faculty Morale and Faculty Perceptions of Involvement in Policy Formulation at Public Community Colleges in Michigan.



# SCHOOL FOR ADVANCED GRADUATE STUDIES

## CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

- FRANK CHARLES NELSEN, Ph.D.      B.A., Wheaton College; M.A., Michigan State University.  
Education. Major Professor: Carl H. Gross, Professor.  
Thesis: The American School Controversy Among the Norwegian-Americans, 1845-1880.
- GALE EARL NEWELL, Ph.D.      B.B.A., Western Michigan University.  
Business Administration (Accounting). Major Professor: Roland F. Salmonson, Professor.  
Thesis: Published Quarterly Financial Data: Their Adequacy for Investment Decision Making.
- PAUL STEELE NISWANDER, Ph.D.      B.S., The Ohio State University; M.A., Michigan State University.  
Audiology and Speech Science. Major Professor: Herbert J. Oyer, Professor.  
Thesis: Non-Speech Sound Discrimination in Subjects with Impaired Hearing.
- KENNETH GUY NUNNELLY, Ph.D.      B.A., B.D., Texas Christian University; M.A., Michigan State University.  
Education. Major Professor: William W. Farquhar, Professor.  
Thesis: The Use of Multiple Therapy in Group Counseling and Psychotherapy.
- MICHAEL LEE OLMSTEAD, Ph.D.      B.S., Aquinas College.  
Chemistry. Major Professor: Richard S. Nicholson, Associate Professor.  
Thesis: Theory of Cyclic Voltammetry for Electrochemically Initiated Dimerization and Disproportionation Reactions.
- DAVID ROY OSBORNE, Ph.D.      B.S., Wisconsin State University; M.S., Michigan State University.  
Zoology. Major Professor: George J. Wallace, Professor.  
Thesis: The Functional Anatomy of the Skin Muscles in Phasianinae.
- JAMES RICHARD OZINGA, Ph.D.      A.B., Calvin College; M.A., Western Michigan University.  
Political Science. Major Professor: Alfred G. Meyer, Professor.  
Thesis: The Relevance of Marx and Lenin to the Soviet Transition to Communism.
- JOHN PEASE, Ph.D.      B.S., Western Michigan University; M.A., Michigan State University.  
Sociology. Major Professor: James B. McKee, Professor.  
Thesis: The Weberian Mine: A Probationary Analysis of Class Stratification; Being a Critical Essay on the Study of Class in American Sociology and a Suggestion for Improvement, With Special Reference to the Ideas of Max Weber, and with Some Remarks on the Speculations of Mr. Faris, Mr. Nisbet, and Other Writers.
- JAMES WILLIAM PERRY, Ed.D.      B.A., M.A., Western Michigan University.  
Education. Major Professor: Troy L. Stearns, Professor.  
Thesis: A Study of the Role of the Curriculum Director in Federal Programs in Fourteen Selected School Districts in the State of Michigan.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

- GLEN ELSTER PETERSON, Ph.D.      B.A., Augustana College; M.A., University of Minnesota; B.D., Lutheran Theological Seminary.  
Education. Major Professor: Eldon R. Nonnamaker, Professor.  
Thesis: The Perceptions of Student Personnel Administrators, Faculty Members, and Students of the Student Personnel Programs of the Senior Colleges of the American Lutheran Church.
- PAUL ELMER POLZIN, Ph.D.      B.A., University of Michigan; M.A., Michigan State University.  
Economics. Major Professor: Thomas R. Saving, Professor.  
Thesis: The Canadian Money Supply.
- ELLIOT POSTOW, Ph.D.      B.S., State University of New York.  
Biophysics. Major Professor: Barnett Rosenberg, Professor.  
Thesis: The Semiconductivity of Hemoglobin-Adsorbate Systems.
- ANDREW FOSTER POWELL, Ph.D.      B.A., College of William and Mary; M.B.A., Michigan State University.  
Business Administration (Marketing). Major Professor: Donald A. Taylor, Professor.  
Thesis: An Analysis of Factors Influencing the Use of Marketing Research by Manufacturers in Brazil.
- HOWARD MARTIN REBACH, Ph.D.      B.A., M.A., University of Maryland.  
Communication. Major Professor: Gerald R. Miller, Associate Professor.  
Thesis: Open- and Closed-Mindedness and the Self-Persuasion Phenomenon.
- ARTHUR RESNIKOFF, Ph.D.      B.A., Cornell University; M.S., State University of New York.  
Education. Major Professor: William W. Farquhar, Professor.  
Thesis: The Relationship of Counselor Behavior to Client Response and an Analysis of a Medical Interview Training Procedure Involving Simulated Patients.
- BOB G. REYNOLDS, Ph.D.      B.S., University of Arkansas; M.S., Southern Methodist University.  
Electrical Engineering. Major Professor: William L. Kilmer, Associate Professor.  
Thesis: Structure of Events and Automata.
- JAMES ALAN RILLEMA, Ph.D.      B.S., Calvin College; M.S., Michigan State University.  
Physiology. Major Professor: William L. Frantz, Associate Professor.  
Thesis: Prolactin Stimulation of Amino Acid-<sup>14</sup>C Uptake and Incorporation into Protein in the Pigeon Crop Mucosa.
- EVELYN JANE RITTENHOUSE, Ph.D.      B.A., Pacific Union College; M.S., University of Southern California.  
Education. Major Professor: Helen H. Green, Professor.  
Thesis: A Study of Certain Factors Influencing Success in the Learning and Achievement of Shorthand.

# SCHOOL FOR ADVANCED GRADUATE STUDIES

## CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

- WILLIAM JOHN ROGERS, Ed.D.      B.A., M.A., Central Michigan University.  
Education. Major Professor: David C. Smith, Associate Professor.  
Thesis: A Case Study of the North Dearborn Heights Teachers' Strike.
- JULES ROSSMAN, Ph.D.      B.A., New York University; M.A., Michigan State University.  
Speech and Theatre. Major Professor: Kenneth G. Hance, Professor.  
Thesis: "Meet the Press" and National Elections: The Candidates and the Issues, 1952-1964.
- THOMAS SAWYER ROWLAND, Ph.D.      B.A., University of Vermont; M.A., Michigan State University.  
Psychology. Major Professor: Lucy R. Ferguson, Professor.  
Thesis: Mother-Son Interaction and the Coping Behavior of Young Boys.
- WILLIAM LEWIS RUBLE, Ph.D.      B.S., M.S., University of Illinois.  
Agricultural Economics. Major Professor: Robert L. Gustafson, Professor.  
Thesis: Improving the Computation of Simultaneous Stochastic Linear Equations Estimates.
- RODOLFO NACINO SALCEDO, Ph.D.      B.S.A., Visayas Agricultural College; M.S., U.P. College of Agriculture.  
Communication. Major Professor: Everett M. Rogers, Professor.  
Thesis: A Communication Model of Modernization.
- GLEN RAYMOND SANDERSON, Ph.D.      B.S., Christian Brothers College; M.B.A., University of Arkansas.  
Business Administration (Accounting). Major Professor: Roland F. Salmonson, Professor.  
Thesis: An Inquiry into the Desirability and Feasibility of Mandatory Partnership Tax Treatment for Closely Held Corporations.
- ANANT PRAKASH SAXENA, Ph.D.      B.Sc., M.Sc., Government Agricultural College, India; M.S., University of Guelph.  
Communication. Major Professor: Everett M. Rogers, Professor.  
Thesis: System Effects on Innovativeness Among Indian Farmers.
- EMMA JANE SCANDARY, Ph.D.      B.A., Michigan State University; M.Ed., Wayne State University;  
D.A.G., Michigan State University.  
Education. Major Professor: Louise Sause, Associate Professor.  
Thesis: A Study of Early Elementary School Teachers Evaluations of Selected Eye-Hand Coordination Skills of Kindergarten Children.
- DONALD FRANKLIN SCHWARTZ, Ph.D.      B.S., M.S., North Dakota State University.  
Communication. Major Professor: Hideya Kumata, Professor.  
Thesis: Liaison Communication Roles in a Formal Organization.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

- |                                       |   |
|---------------------------------------|---|
| OKETE ELLYSHAM JAMES SHIROYA, Ph.D.   | B.A., Macalester College; M.A., Michigan State University.<br>History. Major Professor: James R. Hooker, Associate Professor.<br>Thesis: Impact of World War II on Kenya: The Role of Ex-Servicemen in Kenyan Nationalism.  |
| NICHOLAS CHARLES SHURALEFF, II, Ph.D. | B.S., M.S., Michigan State University.<br>Zoology. Major Professor: Charles S. Thornton, Professor.<br>Thesis: The Effect of Nerve Augmentation on the Cellular Activity of Mesenchymatous Cells Within the Regenerating Blastema of the Hindlimb of the Axolotl, <i>Ambystoma Mexicanum</i> .                  |
| DAVID TOBIA SIGNORI, JR., Ph.D.       | B.S., Worcester Polytechnic Institute; M.S., Michigan State University.<br>Electrical Engineering. Major Professor: Richard C. Dubes, Associate Professor.<br>Thesis: Estimation and Adaptive Decision Making for Partially Observable Markov Systems.  |
| EDELMIRA D. SINCO, Ph.D.              | B.S.E., M.Ed., University of the Philippines.<br>Education. Major Professor: Walter F. Johnson, Professor.<br>Thesis: Student Needs and College Environments of Selected Universities in the Philippines.   |
| DINESHWAR PRASAD SINHA, Ph.D.         | B.V.S. & A.H., Patna University; M.S., Michigan State University.<br>Pathology. Major Professor: Stuart D. Sleight, Professor.<br>Thesis: Pathogenesis of Abortion in Acute Nitrite Toxicosis in Guinea Pigs.   |
| ROBERT LEE SMITH, Ph.D.               | B.S., M.A., Bowling Green State University.<br>Speech and Theatre. Major Professor: David C. Ralph, Professor.<br>Thesis: A Case Study of the Speaking of the House Committee on Un-American Activities: The San Francisco Hearings, May, 1960.   |
| G. ROBERT STANDING, Ph.D.             | B.S., M.S., Brigham Young University.<br>Education. Major Professor: Buford Steffler, Professor.<br>Thesis: A Typological Approach to the Study of Men's Residence Groups.  |
| JOHN DAVID STANFIELD, Ph.D.           | B.S., The Ohio State University; M.A., American University.<br>Communication. Major Professor: Everett M. Rogers, Professor.<br>Thesis: Interpersonal Trust and Modernization in Minas Gerais, Brazil.  |
| RONALD H. STARKEY, Ph.D.              | B.S., Augsburg College; M.S., Michigan State University.<br>Chemistry. Major Professor: William H. Reusch, Associate Professor.<br>Thesis: Part I. An Attempted Wolff-Kishner Initiated Fragmentation Reaction.<br>Part II. Lithium Aluminum Hydride Reduction of a Steroid Tosylate.<br>A Novel Rearrangement. |

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

- GERALD ROBERT STEPHENSON, Ph.D.      B.S., M.S., Michigan State University.  
Horticulture. Major Professor: S. K. Ries, Professor.  
Thesis: The Selective Action of Pyrazon (5-Amino-4-Chloro-2-Phenyl-3(2H)-Pyridazinone) in Plants.
- HARLAN RAY STOIN, Ph.D.      B.S., The Ohio State University; M.S., Michigan State University.  
Crop Science. Major Professor: James B. Beard, Associate Professor.  
Thesis: Effects of Nitrogen Nutrition and Temperature on the Growth, Carbohydrate Content, and Nitrogen Metabolism of Cool-Season Grasses.
- CARL LEANDER STRODTMAN, Ph.D.      B.S.M.E., Illinois Institute of Technology; M.S.M.E., University of Pennsylvania.  
Mechanical Engineering. Major Professor: James V. Beck, Associate Professor.  
Thesis: A Design Optimization Technique Applied to a Squeeze-Film, Gas, Journal Bearing.
- GEORGE J. TAYLOR, Ph.D.      B.A., Whitworth College; M.A., Michigan State University.  
Education. Major Professor: John E. Jordan, Associate Professor.  
Thesis: An Analysis of Teacher's Attitudes Toward Education in Costa Rica.
- STANTON M. TEAL, Ph.D.      B.A., Illinois College; M.A., Michigan State University.  
Education. Major Professor: George Barnett, Professor.  
Thesis: Conceptions of Curriculum: A Critical Analysis.
- WILLIAM ELROY TEDRICK, Ph.D.      B.S., The Ohio State University; M.A., University of Maryland.  
Communication. Major Professor: Gerald R. Miller, Associate Professor.  
Thesis: The Relative Accuracy and Reliability of the Congruity and Belief Congruence Models as Predictors of Cognitive Interaction: A Replication and Extension.
- WILLIAM CHUNG-TSING TUNG, Ph.D.      B.S., M.S., University of Michigan.  
Chemistry. Major Professor: Max T. Rogers, Research Professor.  
Thesis: Study of Hindered Internal Rotation in Some Substituted Amides by Nuclear Magnetic Resonance Spectroscopy.
- CLAUDE RICHARD UNRATH, Ph.D.      B.S., M.S., Michigan State University.  
Horticulture. Major Professor: A. L. Kenworthy, Professor.  
Thesis: The Effect of Alar (Succinic Acid 2,2-Dimethyl Hydrazide) on Fruit Maturation, Quality and Vegetative Growth of Red Tart Cherries (*Prunus cerasus* L., var. Montmorency).

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

W. THURMAN VANZANT, Ph.D.

B.A., Southwestern Bible Institute; A.B., New Mexico Highland University; B.D., South West Baptist Theological Seminary.  
Education. Major Professor: Eldon R. Nonnamaker, Professor.  
Thesis: Religious Environment Scales: An Experimental Model for Assessing the Religious Environment at Church-Controlled Colleges.

MAURICE EARL VOLAND, Ph.D.

B.S., M.S., State College of Iowa.  
Sociology. Major Professor: Harvey M. Choldin, Assistant Professor.  
Thesis: Industrializing Agriculture: A Typology of Entrepreneurial Farm Management Style.

DONALD LLOYD WALLACE, Ph.D.

B.S., M.S., South Dakota State University.  
Food Science. Major Professor: Laurence G. Harmon, Professor.  
Thesis: Partial Purification and Characterization of an Intracellular Protease from *Streptococcus durans*.

DANIEL DEWAYNE WHITNEY, Ph.D.

B.A., Michigan State University.  
Anthropology. Major Professor: Iwao Ishino, Professor.  
Thesis: The Flow of Agricultural Information in Okinawa.

HARRIET ELEANOR WHITNEY, Ph.D.

B.S., Michigan State University; M.E., Wayne State University; Ph.D., University of Michigan.  
History. Major Professor: Alvin C. Gluek, Jr., Associate Professor.  
Thesis: Sir George C. Gibbons and the Boundary Waters Treaty of 1909.

ANTHONY VEARNCOMBE WILLIAMS, Ph.D.

A.B., Wayne State University; M.A., The Ohio State University.  
Geography. Major Professor: Gerard Rushton, Assistant Professor.  
Thesis: On Some Aspects of Models for the Analysis of Spatial Processes.

JACK EDWARD WILSON, Ph.D.

B.A., Kentucky Christian College; M.A., Kent State University.  
Speech and Theatre. Major Professor: William B. Lashbrook, Assistant Professor.  
Thesis: Student and Student Adviser Expectations of the Basic Course in Public Speaking at Michigan State University.

GUY BARRY WIRTH, Ph.D.

B.S., Michigan State University.  
Chemical Engineering. Major Professor: Donald K. Anderson, Associate Professor.  
Thesis: Tracer and Mutual Diffusion in Isothermal Liquid Systems with Specific Association.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1968 — Continued

- MOHSEN ABDEL-FATTAH YOUNES, Ph.D. B.Sc., University of Alexandria; M.Sc., University of Assiut; M.S., Michigan State University.  
Crop Science. Major Professor: Maurice W. Adams, Professor.  
Thesis: Biological and Environmental Regulation of Nitrate Reductase in Navy Beans, *Phaseolus Vulgaris* L.
- THOMAS ANDREW ZITTER, Ph.D. B.S., Michigan State University.  
Botany & Plant Pathology. Major Professor: Harry M. Murakishi, Professor.  
Thesis: Selection and Differentiation of Tobacco Mosaic Virus Substrains by Cultivars and Lines of *Lycopersicon* Species.

### DIPLOMA FOR ADVANCED GRADUATE STUDIES — FALL TERM, 1968

- JOSEPH ANTHONY DiGALLONARDO, D.A.G. B.S., Worcester Polytechnic Institute; M.S., Michigan State University.  
Mathematics. Major Professor: P. K. Wong, Associate Professor.

### EDUCATIONAL SPECIALIST DEGREE — FALL TERM, 1968

- RICHARD WILLIAM GOODWIN, Ed.S. B.A., M.A., University of Toledo.  
Education. Major Professor: Richard L. Featherstone, Professor.
- CLIFTON W. HELMS, Ed.S. B.S., M.A., Michigan State University.  
Education. Major Professor: James E. Heald, Professor.
- SHIRLEY JOY MULL, Ed.S. B.A., M.A., Michigan State University.  
Education. Major Professor: James E. Heald, Professor.
- ZELMA A. PAYNE, Ed.S. B.S., M.S., Tuskegee Institute.  
Education. Major Professor: Twyla M. Shear, Associate Professor.

# COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

THOMAS K. COWDEN, DEAN

## GRADUATED SUMMER TERM, 1968

DEGREE OF  
MASTER  
OF SCIENCE

### Agricultural Economics

Roger Lee Baur  
Yung-Chang Lee  
Richard Eric Mordue  
Bunloe Sutharomn

### Agricultural Extension

Tahrun Nesa Ahmed  
Norman Roger Goodrich

### Agricultural Mechanization

Suleyman Ozturk

### Biochemistry

Karen Emily DeFazio  
Irith Ginzburg  
James Warren Heyser

### Cooperative Extension

### Education

Walter Lavalley Ganshaw

Donald James McFeeters

### Crop Science

Vaughn Paul Domeier

### Fisheries and Wildlife

Robert Edward Basch  
Thomas Miel Stauffer

### Food Science

Alfred J. Liepold

### Forest Products and

### Packaging

Winton Albert Ross  
Kevin Dennis Ryan

### Forestry

Manamohan Dhoj Joshi

Thomas Leslie Tucker

Augusto Elias Zambrano

### Horticulture

John Frederick Schwartz  
John R. Thienes  
Martin James Wiles, Jr.

### Resource Development

Ray Philip Clark  
Carl Clinton Lamb  
Robert Emil Pfister  
Michael James Romaine  
Donn Paul Werling

### Soil Science

Kai-yuan Li  
Gary Carl Steinhardt

## CANDIDATES — FALL TERM, 1968

DEGREE OF  
MASTER  
OF SCIENCE

### Agricultural Economics

Alan Frank Bogatay  
James Ralston Cooper

### Agricultural Mechanization

David Ivor Allen

### Animal Husbandry

Fernando Lamarca Guerrico

### Biochemistry

Min Gee Hsia  
John Callaghan Owicki  
Bruna Estefania Ruksan

### Cooperative Extension

### Education

Carlos Alberto Baqué  
Leslie Arpad Mack  
Vicente de Paula Vitor

### Crop Science

James L. Crosby  
Hassan Hojat  
James Lawrence Yager

### Dairy

Dale Elton Bauman  
Rex Lynn Powell  
Robert Paul Wettemann

### Fisheries and Wildlife

Gary Burtte Hansen  
Roger Lloyd Hogan  
William Murray Horton  
Donald Lee Inman  
Harold August Olsen  
Kenneth James Wright

### Food Science

Iue Chung Cho

Efraim Gil

Gabriel George Gousiades  
Larry Lee Hood  
Linda Sue Miller  
Manuel José Torres-Anjel

### Forest Products and

### Packaging

Thomas Frederick Falls  
Leonard Joseph Meyer  
Gerald Larry Palmreuter

### Forestry

Dan Henry Farnsworth  
James Edward Granskog  
Jack Bengé Hoisington

### Horticulture

David Yu Ding  
Donald Arthur Dunbar

# COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

DEGREE OF  
MASTER  
OF SCIENCE

Resource Development  
Donald Russell Hehn  
Timothy Alan Hiltz  
James Ray Mac Donald  
Gerard Albert Verstraete

Soil Science  
Elias Mlutanyiehi Awa  
David Albert Lietzke  
Lyle Henry Linsemier

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF ENGINEERING  
Agricultural Engineering  
Kenneth Milton Hofmeister  
Bruce Emerson Rohrer

Agricultural Business  
Michael Hill Ansteth  
B. James Clay, Jr.  
Robert Harley Merriman  
Thomas William Merritt  
Lloyd Louis Shenefield  
William Walter Wieland

Agricultural Communications  
David Orville Pratt

Agricultural Economics  
H\*Daniel Richard Drew  
Gary Francis Flynn  
\*Leo Charles Mulholland

Agricultural Mechanization  
Robert Lloyd Cramer  
Donald Frederick Gray

Animal Husbandry  
Calvin Arthur Brown, Jr.  
Bruce Robert Crew  
Frederick Leonard Hinkley  
Jacquelyn Kay Huff  
Carl LaVerne Kidd

Building Construction  
Edward William Cicero  
David Joseph Fisher  
Guy Robert Horanberg  
Harold Andrew Lindner, Jr.  
Robert Witters Miller  
Barry Leonard Peterson  
Barry Lee Smith

Dairy  
Thomas Roger Semans

Fisheries and Wildlife  
James William Ahl  
David Roger Aumann

John Gordon Drummond, Jr.  
Lonny Rae Freed  
Rodger Lewis Griffith  
John Jacob Hoffman  
Robert Basil Hunter  
Reynold Dennis Myers  
Jan Allan Nagaj  
Dennis John Niles  
Daniel Curtis O'Rourke  
Thomas Eugene Pilbeam  
Howard Dean Wandell

Forestry  
Thomas Carl Allenpach  
John Henry Burde, III  
Gerald Robert Divine  
\*James Wallace Dunham  
Gary Jay Elenbaas  
Helmut Falk  
Joe Nelson Fields  
William John Gasow  
Martin Richard Jannereth  
Robert Charles King  
Mark Jay Lennon  
Michael David Maier  
Jeffrey Geel Manuel  
Jack V. Nedland  
Thomas A. Scherm  
David Carl Shouder  
\*\*Ronald Joseph Spenski

Horticulture Science  
Kathryn Marie Coutts  
Leona Antoinette Schweizer

Packaging  
Donald Russell Alverson  
Sanford Preston Ames  
William James Carlson  
Edward Allen Church  
Richard Ralph Clark  
Robert Jay DeRuyscher  
John Patrick Donahue  
Thomas Frederick Falls

Michael John Fradette  
Rodney Alexander Glinisty  
Robert Lawrence Hurwitz  
Charles Martin Jalovec  
Arthur Leland Jerome  
James William Jones  
Kenneth William Krenkel  
Russell Lee Miller  
James Clyde Narmore  
Todd Arthur Noeske  
Michael Peter Oklejas  
Rudolph Raymond Povirk, Jr.  
Lawrence Francis Schmida  
Dwight Carl Schmidt  
Robert Louis Schumacher  
Randolf Harold Schwerdt  
Richard Carl Sigelko  
Lloyd F. Simpson  
Richard James Sjolander  
Gary L. Smith  
Richard Edward Stibbe  
Chet Kalohi Wilson

Park and Recreation Resources  
David Loren Coppess  
Michael Edward Dault  
Robert Warner Dittrick  
Richard Kenneth Hodge  
Richard Albert Meganck  
Eric Harold Metzler  
Marvon H. Watson

Poultry Science  
Ralph Gary Pekeski

Resource Development  
Eugene Marvin Kenyon  
\*Greg Peter Went

Soil Science  
Roger Adelbert Odell  
Fredrick Allen Szarka

H Honors College  
\* With Honor  
\*\* With High Honor



# COLLEGE OF ENGINEERING

LAWRENCE W. VON TERSCH, DEAN

## GRADUATED SUMMER TERM, 1968

DEGREE OF  
MASTER  
OF SCIENCE

### Chemical Engineering

Avinash Srapad Adwalpalkar  
Yale Stewart Finkle  
Frederic Leslie Halbert  
Anilkumar Narayan Kharkar  
Sunil Murgai  
Raman Padmanabhan  
Prabodh J. Parikh  
Bhagwandas Ratansi Thakker

### Civil Engineering

Egbert Hsi-Ting Chang

### Electrical Engineering

Roy Raymond Bettenhausen  
Robert Michael Fredericks  
Robert Taylor Harvey  
Laird Hamilton Moffett  
Deepraj Singh Puar  
Michael Zeph Sexton  
John Ralph Short

### Mechanical Engineering

Joachim H. Engel  
Gerald Willard Holland  
Stanley James Kleis  
Ashok Kantilal Shah  
Ajit Keshav Tipnis

### Mechanics

David Lee Bailey

### Metallurgy

Prakash Madhav Achrekar  
Frederick William Almus  
Bruce Edward Anderson  
V. Chandrasekaran  
Satish Kumar  
Anil Venkat Rao  
Neil Gerald Somsel  
Yang-pei Soong

### Systems Science

Robert V. Riddle

## CANDIDATES — FALL TERM, 1968

DEGREE OF  
MASTER  
OF SCIENCE

### Chemical Engineering

Narendra M. Chawla  
Narendra Kumar Manocha

### Civil Engineering

Samuel K. C. Chan  
Muthiah Kasi  
Ravi Kumar Mathur  
Octavio Augusto Mesa  
Echeverri  
John Mathew  
Paloorthekkathil  
Ashween Dharamchand Shah

### Electrical Engineering

Jeevan Singh Ahuja

### Electrical Engineering

Stuart Wayne Flockencier  
Robert Carl Hansen  
Sumer S. Kalsy  
Robert Larry Lundquist  
Stephen Albert Strong

### Mechanical Engineering

R. Chandrasekaran  
Abid Gulamali Haidery  
Yasuo Iwasaki  
Nuruddin Hakimuddin  
Kapadia  
Takuji Kohyama  
Thomas Edward Lasley  
Albert Michael Lindrose  
Bruce Norman Monroe

### Mechanics

Ramanbhai Nathubhai Patel  
Badraddin Kalimuddin  
Rangwala  
Mansur Noman Sitabkhan

### Mechanics

Roger Carl Haut  
James Clemens Napier

### Metallurgy

Edward Joseph Fox  
Raichur G. Sathyanarayana

### Sanitary Engineering

Ralph John Knop

DEGREE OF  
BACHELOR  
OF SCIENCE

### Chemical Engineering

Robert Carey Foley, Jr.  
\*Dennis Gene Groh

### Civil Engineering

Eytan Ben-Joseph  
Bruce Arthur Brandenburg  
Terry Donald Holzhausen  
Richard Andrew Sage

### Electrical Engineering

Thomas Frederick Ahlrich

### Electrical Engineering

Robert George Baker, Jr.  
Robert Orrin Krueger  
Roland Hilary Kurek  
Curtiss Blair Meyer  
Harold Anthony Scanlon  
Charles R. Sturm

### Mechanical Engineering

Robert Stephen Arcaris  
David Weston Ellis  
Richard Alan Grenzke  
Howard Lee Hime  
William Kenneth Langhorst

### Mechanics

David Lewis Millerick  
John Ellis Mills  
Glenn L. Peck, Jr.  
Ronald Dale Potter  
Marvin Thomas Yaros

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF AGRICULTURE  
AND NATURAL RESOURCES

### Agricultural Engineering

\*Larry Edward Rose

\* With Honor

# COLLEGE OF HOME ECONOMICS

JEANETTE A. LEE, DEAN

## GRADUATED SUMMER TERM, 1968

DEGREE OF  
MASTER  
OF ARTS

### Child Development

Sue Ann Robinson Ambron  
Helen Mattson Griffiths  
Phyllis Joan Jones  
Sue Ann Mazur  
Trellis Taylor Waxler

### Family Studies

Kathleen Marilyn Cleary  
Jo Lynn Cunningham  
Ellen H. Volland  
Grace Katherine Von Tobel

### Related Arts

Janice Martin Pletcher

### Textiles and Clothing

Mary Dimeck  
Nelma Irene Fetterman  
Mary Martell Mason  
Shirley Ann Randall  
Nancy Gail Trexler

DEGREE OF  
MASTER  
OF SCIENCE

### Institution Administration

Mary Ann Boyle

Mary Elizabeth Dougherty

Alfred Murrie Harris

## CANDIDATES — FALL TERM, 1968

DEGREE OF  
MASTER  
OF ARTS

### Child Development

Marjorie Heath Noble

### Family Studies

Gayla Louise Gill  
Mary Ann Thompson

### Home Management

Lois June Bennett  
Loretta Ann Onorato  
Ruth Miller Reinoehl

### Related Arts

Melissa Crider Agerstrand

### Textiles and Clothing

Rosalie Claris Budzinski  
Julie Claire Horvath  
Sister Kathleen Walli, O.P.

DEGREE OF  
MASTER  
OF SCIENCE

### Foods

Karen Johnson Morgan

### General Home Economics

Karen R. Oman

### Institution Administration

Naz Perwer Chaudhry  
Sister Veronica Marie Duffy

DEGREE OF  
BACHELOR  
OF SCIENCE

### Community Service

Maryellen Olman

### Foods

Elizabeth Vary Carpenter  
Carol Sue Ravey

### General Home Economics

Jill Christine Byron  
Alison Kimball McLean  
Gloria Rae Pleasant  
Janet Stout

### Home Economics with Communication Arts

Pamela Ann Paul

### Interior Design

Mary Lou Bissell  
Sandra Kerstin Blake  
Jacqueline Diana Doyle  
Jane Louise Hildebrand  
Marie Feliks Johannes  
\*\*Martha Y. Shinn  
Donelia Louise Tonk  
Linda Louise Tremba

\*\* With High Honor

# COLLEGE OF HOME ECONOMICS

DEGREE OF  
BACHELOR  
OF SCIENCE

## Retailing of Textiles and Clothing

Diana Lynn Dover  
Patricia Ann Freed  
Susan Lucille Hamel  
Mary Margaret Hoy  
Ann Ellen Ward  
Judith Ann Wood  
Mary Kay Woodworth

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

## Child Development and Teaching

Louraine Rosemary Nelson  
Karen Anne Siwek  
Mary Lynn Taft

## Home Economics Teaching

Susan Ann Bouwkamp  
SueEllen Cavanaugh  
Sue Ann Costello  
Linda Frances Draper  
\*Joan Marilyn Glasgow  
Cheryl Dawn Hensey  
Maria Christina Jack  
\*Mary Ann Kidder  
\*\*Carole Clemensen Kohler  
Sharon Lee Mitchell  
Linda Marie Tate  
H\*\*Charlene Willard Wilkinson

H Honors College  
\* With Honor  
\*\* With High Honor



# COLLEGE OF VETERINARY MEDICINE

WILLIS W. ARMISTEAD, DEAN

## GRADUATED SUMMER TERM, 1968

DEGREE OF  
MASTER  
OF SCIENCE

### Anatomy

Susan Helene Horowitz

### Pathology

Janver Don Krehbiel

Delbert L. Whitenack

## CANDIDATES — FALL TERM, 1968

DEGREE OF  
DOCTOR OF  
VETERINARY  
MEDICINE

Idrisu Alhaji  
\* Lorel Keese Anderson  
\* Donald Preston Aronson  
Ann McCoy Beck  
Gary Lee Blanchard  
George Lawrence Boggs  
Gregory Lewis Boggs  
\* James Russell Buck  
\* Wayne LeRoy Casler  
\* Charles Marc Cohen  
Benjamin Herring  
Colmery, III  
Daniel Dale Dean  
David John DeYoung  
John Felix Dickason

\* Steven Curtis Drakeim  
Ingeborg Lilly Eggert  
John David Freed  
Kenneth Francis Gallagher  
Carol Lynne Geake  
\* Richard Harvey Hahn  
Terry Harland Hall  
Robert Alan Hassing  
John Frederick Lang  
\* Raymond Robert Leali  
Robert Clare Limpert  
John F. Lindamood  
Cynthia Scudlo Lovay  
Lester Mandelker  
Edmund Ralph McKinley

Ronald Howard Mills  
William Herman Nichols  
\* Elliot Piperno  
Frederick William Rutherford  
\* Charles Patrick Ryan  
John Laurence Schmidt  
Duane Norman Schulze  
\* Lauren Dee Smith  
Robert John Sova  
Peter George Steelman  
\* Thomas Norman Torhorst  
Harley Loren Waxer  
\* Robert Harvey Wolfe  
Lawrence Warren Zarrilli

DEGREE OF  
MASTER  
OF SCIENCE

### Anatomy

Phillip Harwood Hardy, Jr.

### Pathology

Andrew Joseph Maturen, Jr.

### Veterinary Surgery and Medicine

Joe Kashner

DEGREE OF  
BACHELOR  
OF SCIENCE

### Medical Technology

Nancy Bruder Babcock

### Veterinary Medicine

Howard Francis Flynn, Jr.  
John Richard Frazier

Robert Alan Hassing  
James Kenneth Irving  
James Patrick Kelley  
Gary Roland Knapp  
\* Kathleen Ellen Loose  
John Peter Pilarczyk

Michael A. Pintar  
Joel Jay Smiler  
Richard John Suhie  
Kathleen Louise Swiderski

\* With Honor  
\*\* With High Honor

# COLLEGE OF BUSINESS

ALFRED L. SEELYE, DEAN

## GRADUATED SUMMER TERM, 1968

### DEGREE OF

### MASTER

### OF ARTS

#### *Economics*

Karl A. Boedecker  
Joseph Lee Bush

James Edward Eggert  
Jon Arthur Krutar

Gerald L. Musgrave  
Manferd O. Peterson

## GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

### DEGREE OF

### MASTER OF

### BUSINESS

### ADMINISTRATION

Frank Silverts Allgauer  
Alan Charles Andalman  
Richard Bruce Atkins  
Stephen Paul Banicki  
Peter Stair Barnes  
Eduardo de Mattos Barretto  
John Paul Barsness  
Ronald Carl Baughman  
Matthew H. H. Baxter  
Craig Halsted Bell  
Oswaldo Jose Benamu  
David Edward Bergey, Jr.  
Mark Suomula Bernthal  
Thomas Richard Blaising  
Richard Kieth Blankenfeld  
James Lyon Bonner  
Alan Meredith Bourne  
James Edward Bradley  
John David Breslin  
Carl Edward Bretko  
Jack McCartney Brown  
Gani Browsh  
Max Harris Buzzell  
Donald LeRoy Campbell, Jr.  
Matthew John Campbell  
Thomas Allen Cantrill  
Peter Caputo  
John Albert Carlson  
Kenneth Harold Carlson  
James Alphonse Carney  
James Douglas Carroll  
Charles David Caswell  
Paul Edward Charette  
Ronald Wayne Clement  
Russell Earl Cleveland, Jr.  
George Sylvester Connolly, Jr.  
Steven Michael Coquillard  
Paul Cornett  
Charles Kenneth Crawford  
Joseph Jeremiah Cronin, Jr.

Hasmukh Kasan Dahya  
Ernest Charles Dardis  
Julius Andrew Darien  
John Joseph Dark  
John Edward Darnell  
Ruy Ferreira da Silva  
Harold Fredrick Davis  
David Maxson DeFazio  
J. Harry Douma  
Jan Edward Draut  
Remco Drostén  
Eugene Albert Dusek  
Richard Allen Dykstra  
Robert Earle  
Robert James Eldridge  
Michael Peter Entis  
Travis L. Evans  
Walter Wesley Fallon  
Thomas Peter Farago  
John Louis Finan  
Dennis James Fish  
Gerard Edward Fisher  
Richard Edmund Flanigan  
David Leonard Frantz  
Ronald Karl Franz  
John Stephen Frizzo  
Paul Ronald Gandolfo  
Thomas Frederick George  
Charles Glenn Gifford  
Joe Leland Gill  
Walter Elliott Goldstein  
Thomas Calvin Gowell  
Thomas Arthur Grant  
Bruce Harold Grimm  
Raymond Virgil Harris  
Franklin Clyde Harter  
Jerry Cox Hassebroek  
John Heiam  
Thomas Patrick Higgins, Jr.  
Virgil Dean Hill

Mark Lawrence Hobzek  
Alan Lee Hoppensteadt  
Derek Anthony Houston  
Haldon James Huffman  
Harold Ben Hughes  
Tsunetaka Irei  
Roger Emil Jonas  
Cato Lynn Jones  
Gary Lynn Jordan  
Mojtaba Kashefi-Zihagh  
Jae Soo Kauh  
Bernard Lawrence Kelly  
Gregory Mark Kemp  
James Arthur Kieft  
John Neal Kissinger  
Gary S. Koester  
William David Kowal  
Phillip D. Landers  
James Alva Landfried  
Richard L. Langley  
Harry Lee Lara  
Frank P. Latino, Jr.  
James Christopher Lau  
William Clement Leedle  
Ruben Leon-Bonacia  
George Duncan Lewis, III  
Dennis John Linden  
Leonard Robert Linden, Jr.  
Afranio Sanches Loureiro  
Hugh Francis MacLellan  
Joseph Thomas Mancuso  
Charles L. Martin, Jr.  
Donald Elman Martinez  
Thomas Q. McKinnon  
Billy Gene McSwain  
Robert McGregor Menzies, II  
Norman Francis Merlet  
George Henry Mezzio  
James Joseph Milani  
William Joseph Miller

## COLLEGE OF BUSINESS

|                |   |  |  |
|----------------|---|--|--|
| DEGREE OF      | Daniel Jeff Mitchell<br>Henry Joseph Moczul<br>Lyle Gordon Montgomery<br>Fred William Morgan, Jr.<br>Jack Allison Morris<br>John Andrew Morrison, Jr.<br>Roger Eduardo Moscote<br>Joseph Eugene Murphy<br>Richard Harold Norris<br>Robert John Ombrello<br>Thomas J. Parker<br>Michael Laurence Patton<br>Michael Evans Payne<br>Thomas Henry Payne<br>Loring Robert Peirce<br>Clarence Charles Perfetti, Jr.<br>James Charles Pethigal<br>Dennis Harold Philp<br>Somchai Pipitvijitkorn<br>Wladimir Antonio Puggina<br>Donald James Puglisi<br>Richard Ernest Rakow<br>Charles Albert Reichheld, III<br>David Edward Remark<br>John Howard Remke<br>Donald Paul Rockwell | John Rogers<br>Randolph Ernest Ross<br>Robert James Rutledge<br>Richard Armand Salturelli<br>Wah-pui Sam<br>Harold Howard Schroeder<br>Randall Steve Schuler<br>Edward Blaine Sebring, II<br>James Davis Sheeler<br>Mitsuaki Shimaguchi<br>Stanley DeWayne Sibley<br>John Alexander Simonson<br>Dogan Mustafa Sindiren<br>John Fred Sovis<br>Herbert Arthur Sperry<br>Charles Daniel St. Amour<br>Robert Jon Steinhart<br>James Alan Stover<br>Donald Lee Stroup<br>Martin Steve Suchik<br>Norman Edward Sugarman<br>W. Scott Supernaw<br>John Gerard Swanhaus, Jr.<br>Robert William Sweitzer<br>Steven Lee Taflinger<br>Franklin Dean Tarquini | Raymond Franklin Taylor<br>Ira Stuart Theodore<br>James Walter Thomson<br>Stephen Gregory<br>Troychak, Jr.<br>James H. Turk<br>Cevik Uraz<br>Michael Dean Vahue<br>Miguel Angel Vanegas G.<br>Scott John Vitell, Jr.<br>Thomas C. Wagner<br>Lewis M. Walker<br>Daniel Peter Walsh, Jr.<br>Richard Carl Walther<br>Robert Waxman<br>Douglas Allan Weaver<br>Randall Edward Webber<br>Herbert Joel Weinraub<br>Terry Mathew Weisenberger<br>Michael John White<br>David Leon Williams<br>John James Withey<br>Robert Edward Wright<br>Stanley Ross Wylie<br>William Charles<br>Youngclaus, Jr. |
| MASTER OF      |   |  |  |
| BUSINESS       |   |  |  |
| ADMINISTRATION |   |  |  |

## CANDIDATES — FALL TERM, 1968

|           |                  |                  |                    |
|-----------|------------------|------------------|--------------------|
| DEGREE OF | <i>Economics</i> |                  |                    |
| MASTER    | Lee A. Bair      | Ronald F. Singer | Hossein Rahmatabdi |
| OF ARTS   |                  |                  | Yaghoobi           |

## GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

|                |  |   |  |
|----------------|--|---|--|
| DEGREE OF      | Gilberto Wildberger Almeida<br>Thomas John Armstrong<br>Herbert Nelson Ashley<br>Michael Jerry Barcelow<br>Antonio Carlos Barroso<br>de Siqueira<br>Gary Ernest Bartolameolli<br>Ralph Edward Berres<br>William Charles Boynton<br>Marilynn Ruth Briggs<br>David William Bucknam<br>Robert Lawrence Byrnes<br>Donald F. Cadotte<br>Jorge C. Castilla<br>Malin David Charnell<br>Terry Ronald Cole<br>John Francis Coughlin, Jr.<br>José d'Almeida Cruz, Filho<br>Floyd John Daoust<br>Douglas James Dawson<br>Leopoldo Roberto Martins<br>de Carvalho<br>Darrell Dennis Diem<br>Louis John Dinnella<br>Evandro Alves Peixoto<br>Dos Santos | Donald Richard Eckman<br>Jon Gary Faigle<br>Mahmoud Fathollahzadeh<br>Jacob Nathan Feinberg<br>Edward R. Finan<br>Richard Walters Foster<br>Lawrence Alden Gardner<br>Asil Gezen<br>Lawrence Jay Goldstein<br>Rodney Joseph Groleau<br>Aluysio Guimaraes<br>Geoffrey McArthur Hertel<br>Kalman Lionel Huler<br>William Lee Hurford<br>David James Hyslop<br>Paul Landon Jones<br>Philip Robert Jones<br>Peter Richard Kandell<br>Robert Morris King<br>Karl Robert Kleinschmidt<br>Kenneth Kobayashi<br>Robert Charles Kohn<br>Robert Herbert Ladewig<br>Robert John Landowski<br>John Paul Lidgley<br>Dennis Allan MacDonell | Roy James Mackrell<br>David Arthur Magill<br>James Lynn May<br>James Joseph McGuirk, Jr.<br>Frank V. McMain<br>David Eugene Miller<br>Douglas James Miller<br>Thomas Frank Ming<br>Faiz Murtadha<br>Mohammed-Ali<br>Franz Rodolphe Naert<br>John Joseph Nelligan<br>Pajanipan Pachusanon<br>Robert Carl Paul<br>David Alfred Payeur<br>Corydon Lee Phillips<br>James Donald Phillips<br>Matthew Lawrence Piernick<br>Yolande Premont<br>George Richard Prince<br>Stephen Douglas Reading<br>Robert Frank Reiman<br>Ortiz Práxedes Rodriguez<br>Rodney Lee Roenfeldt<br>Chester Arthur Schriesheim<br>Murray Robert Schuman |
| MASTER OF      |  |   |  |
| BUSINESS       |  |   |  |
| ADMINISTRATION |  |   |  |



# COLLEGE OF BUSINESS

## DEGREE OF MASTER OF BUSINESS ADMINISTRATION

Yaghoub Shafai Sahrai  
Norman Kim Shanahan  
Carl O. Sheldon  
John Stephen Shelley  
Peter Hill Sobel  
Sompoch Srimarut  
James Thomas Stewart

Timothy Gerard Sullivan  
Jesse Bruno Szczepanski  
Joseph Alexander Tremba  
James Rudolph Voss  
Thomas Francis Wall  
Jerry Lynn Watson  
William Peter Weidner

Eric Charles West  
Albert Lynn Westhoven  
Ronald Holliday Wickham  
Nicolas N. Wsevolojksy  
Sam L. Yaker  
Michael Charles Ziogas

### Accounting

Stephen James Antol  
Reynold Richard Arens  
Richard John Augustine  
Allen John Becker  
\*Charles L. Bonten  
Murdoch Thomas Campbell  
Richard Marvin Deneau  
Samuel Gerrit Elzerman  
James Frederick Hake  
Richard Lee Harden  
James E. Harris, Jr.  
\*Jon Mitchell Hartman  
Gary Norman Hooper  
Richard Allan Janz  
\*Michael George Langton  
John Fredrick Laycock  
Lindsay Charles Letcher  
William Peter Phillips  
Stephen Douglas Plumb  
Michael John Reed  
Martin Stewart Schlissberg  
Vinette Jane Smith  
Michael John Stock  
Albert A. Thiess, Jr.  
Philip Porter Vineyard  
Timothy Harrington Weber  
Suzanne E. Weller  
Bryan Dennis Wrosch

### Economics

H\*\*William Roy Church  
Timothy Martin Clemens  
Steven Douglas Elzinga  
\*Richard Brian Fox  
Jeffrey Charles Girard  
James Artel Hill, Jr.  
Robert Cornelius Hinshon  
James Alan Jarvis  
Jon Keith Jenkins  
Gerald Curtice Kelley  
Brian Kevin Kelly  
Jean Lynn Kerckhove  
Gregory Michael Krieger  
Gary Edward Mac Donald  
Edward Terry Marckwardt  
Lincoln Robert McLane, Jr.  
Denis Broyles Montgomery  
Charles John Nemetz  
Arvydas John Petravicius  
Donald Alan Price  
Elmer Bruce Reaves, Jr.  
Ward Stephen Rehkopf  
Dirck Graham Terwilliger  
Phillip Courtney Yarbrough

H Honors College  
\* With Honor  
\*\* With High Honor

### Financial Administration

Bradley Alan Lewis  
Michael Paul Miller  
Terry Stephen Norden  
James Max Plotts  
H\*Marvin Dennis Studinger

### Food Marketing Management

\*Paul Dewayne Moerman  
John Edward Pence  
David Lee Utterback

### General Business Administration

Jack Douglas Allen  
John Alan Bailey  
Daniel James Bakita  
Frederick Campbell Beaubien  
Ronald Conway Belleville  
Barry Alan Bly  
Robert Leonard Brawley  
Paul Pierre Brusseau  
Phillip Leon Burnett  
Robert Richard Clapper  
Vernon Hill Cole, Jr.  
C. Thomas Conrad  
Ronald Lee Davis  
Robert Omer DeCleene, Jr.  
John Darryl DeGroot  
James Thomas Downey  
Kirby Ludvig Fuller  
Walker Jon Hall  
Carroll Christopher Hawkins  
\*Kenneth James Heft  
Richard Arthur Howell  
Bazil Leslie Hunt, Jr.  
Rex William Kibler  
James Orr Kincade  
Robert James Lamb  
Charles Roger Lenley  
Philip Wayne Maher  
Ronald Eric Malmberg  
James Albert Michner  
Robert Alan Moray  
Dennis Joseph Muler  
Terry Lee Norton  
Jimmy Gayle Olmstead  
Frederick Carl Polmanteer  
John Edward Poore  
Robert Clark Roepke  
Gary Lawrence Schwab  
Robert David Sculati  
Glenn Alan Sider  
David Frederick Simon  
Lawrence Allen Skar

Donald Eugene Speier, II  
John David Surprenant  
John Ziga, Jr.

### Hotel and Restaurant Management

Donald Lee Binder  
Timothy John Costello  
Gary Eugene Davis  
Craig J. Evans  
Jerry Lee Fournier  
\*William Henry Holt  
Linda Beth Howard  
Jeffrey A. Howlett  
\*Raymond Carl Johnson  
Thomas Gailard McCarty  
\*Kenneth Arnold Miller  
Michael Jack Morgan  
Saverio Samuel Parisi  
Clinton Andrew Sampson  
\*Gary Glenn Seaman  
Marvin W. Smith  
John Francis Story  
Anthony Walter Truskowski  
John Lawrence Williams  
Lawrence Edward Williams

### Industrial Administration

\*Howard Quenton Bain  
Richard Lyle Bartrem  
James Andrew Bednar  
William Henry Chauvin  
Donald Ray Morris  
Robert William Pruitt, Jr.  
Gary C. Rupprecht  
Carl Frederick Spamer, II  
Anthony John Stasunas

### Marketing

William George Allen  
Gerald K. Appleby  
William E. Atchison  
Michael Joseph Bouchard  
Larry Allan Bracken  
Daniel Frederick Brown  
Craig Alan Bundt  
Terry James Clark  
William Lawrence Dalton  
Dwight Alan DeLong  
Marc Joel Dworkin  
Gary Edward Glowacki  
David Grant Hanson  
\*David Mason Hollenbeck  
Thomas C. Kelly  
John E. Kuri

## DEGREE OF BACHELOR OF ARTS

# COLLEGE OF BUSINESS

|                                  |   |  |   |
|----------------------------------|---|--|---|
| DEGREE OF<br>BACHELOR<br>OF ARTS | Gibson William Mathewson<br>William Alan Moran<br>John Paul Mueller<br>David F. Potyraj<br>John Robert Rothe<br>Barry S. Schiff<br>Douglas Neil Sprague<br>David Allan Tucker<br>H* Neal Thomas Turner<br>Robert Lee Wiggins, Jr. | **Richard Allen Rhinehart<br>Jeffrey Lynn Riordan<br>Edward Sanford Sadoff<br>Robert Alan Wilkins  | DEGREE RECOMMENDED<br>JOINTLY WITH THE<br>COLLEGE OF EDUCATION  |
|                                  | <u>Personnel Administration</u><br>Gregory R. Dietz<br>Larry Jack Farrer<br>Donald A. McLeod  | <u>Risk and Insurance</u><br>Ralph Jerome George<br>Carl Ellsworth Mansfield, Jr.<br><br><u>Transportation</u><br><u>Administration</u><br>H* Richard Leo Brazda<br>Roger C. Rooney<br>Ellison Leslie Wefel, Jr. | <u>Business and Distributive</u><br><u>Teacher Education</u><br>Patricia Irene Douglas<br>Kenneth C. Fowler<br>Janet Sue Hyatt<br>Michael Kenneth Olthoff<br>Sharon Kathleen Scott<br>*Mary Louise Whitlock |

H Honors College  
 \* With Honor  
 \*\* With High Honor

# COLLEGE OF EDUCATION

JOHN E. IVEY, JR., DEAN

## GRADUATED SUMMER TERM, 1968

### DEGREE OF MASTER OF ARTS

#### *Education*

Allan Joseph Abedor  
Connie Louise Ager  
Henry Sines Airgood  
O. Kenneth Alford  
Neoma M. Allen  
Jerry Lane Allison  
Syne Duane Altena  
Garnett Elaine Anderson  
Anthony John Angel  
Tim Fred Anthes  
Augeni Habib Antonios  
Carol Mae Apol  
Margaret Kinsey Arbuckle  
Audrey Jean Archer  
Stephen Ray Arthur  
Barbara Joyce Bacon  
Robert Earl Bacon  
Joan Frances Bagrowski  
William Morgan Ballagh  
Stephen Michael Barnard  
Cynthia Barnett  
Barbara Ann Barnish  
James Edward Barrick  
Cora A. Bartsma  
James Eldon Baucher  
Donald Hunter Bauld  
Fred D. Beane  
Ella Mae Beck  
Elizabeth Mary Beetham  
Hannah Guttman Ben-David  
Bruce Burton Benson  
Norma G. Bezrutch  
Claude Lawrence Blamer  
Kenneth W. Blessinger  
Lulu Aseltine Blick  
Margaret Jane Blocki  
Joyce Boaler  
James Robert Boerma  
Ray Lewis Boggs  
Marilyn Marcheta Bowker  
Jean Elizabeth Boyd  
Ronald Luther Bradford  
Irvin Walter Brandel, III  
Marilyn Lou Brandt  
David Lloyd Breitag  
Douglas Norwood Brondyke  
Bruce Barclay Brown  
Gail Scholder Brown  
John Calvin Bruins  
Joyce Joan Bucior  
Sherry Ann Buckley  
Susan Jane Buckley

Shirley Jean Burger  
John Henry Butler  
George Mitchell Cahen  
Judith Carol Campbell  
Martha Monica Capling  
Robert Judson Carlberg  
Barbara Joan Carley  
Harold H. Carlin  
Patricia Ann Carlson  
Nancy Ann Carpenter  
Keevin Joe Cassel  
Maxine Allegra Cavanaugh  
Robert Neil Cegielski  
Arthur Patrick Champion  
Janet Reif Chapman  
Terrence Riley Chesebro  
Melvin Barnet Chudnof  
Nora Lee Clardy  
Carol Ann Clark  
Margaret Diane Clark  
Carole Suzanne Clifford  
Lloyd Lee Cocking  
Janet Sue Collon  
Diane Marie Conforti  
Harland Lawrence Cook  
Mary Ella Williams Cook  
Merritt Marshall Cook  
Christina R. Cornett  
Sally Ann Cowell  
Barbara Ann Crabtree  
Gerald Francis Craig  
Joyce Dissette Cregar  
Michael Jerome Daily  
Michael Leon Dapprich  
Charles Richard Dassance  
Gerald A. Davis  
Shirley A. Decker  
Michael Louis DeLuca  
Thomas Bernard Denewith  
Richard Phillip DeSantis  
John DeVries  
Joseph Wesley Dibley  
Doris Louise Kipp Dobb  
Willa Louise Doezeema  
Carolyn Dommer  
Estella Mary Donnellon  
Diane Douglas Doorlag  
James A. Dunn  
Patricia Jane Elzinga  
June Margaret Engebretsen  
Judell Engelman  
David Edward England  
Sally Jean Eppinga

Arvid E. Erholtz  
Joseph Ronald Esak  
Charles Edward Evans  
Kay Shanahan Farmer  
James Wright Faulkner  
Marian Elizabeth Feehery  
Marcia Kay Fellows  
Richard F. Fenech  
Thomas Anthony Fenoseff  
Allen Edwin Fensch  
Norma Jean Fick  
Sandra Kay Fitzgerald  
Robert St. John Flanders  
Anne Louise Fodrocy  
Eleanor Lee Foreman  
Ella Bement Foreman  
Betty Susanne Fostle  
Claude Adelard Fournel  
Richard Keith Fox  
Margaret Gay Frankenfeld  
Yvonne S. Freeman  
James Harry Gallaher  
Arthur Barry Gamow  
Robert Kenneth Gann  
Norman Keith Garnett  
Justin Glenn Gebben  
Delene Johnson Gifford  
Frances Elizabeth Gill  
Roger Elmer Glans  
Lavern Hugh Glasgow  
Nelson Henry Good  
Patric Henry Gorst  
James Andrew Gossett  
Janet Ann Graczyk  
Robert N. Graf  
Earl Gray Graves  
James Young Grayson  
Donald William Green  
Everett Allen Griffin  
Karen Gertrude Gullett  
William John Hagan  
Lorene Virginia Hall  
Ronald Richard Hall  
Gerald Lee Hamilton  
Louise Fay Hamon  
Joyce Ann Haney  
Cleo M. Hargrave  
Dallas Richard Harrison  
Jeffrey Gale Hartman  
John Lloyd Haugh  
Bryan Thomas Hawley  
Terry Lewis Haymond  
Lorna Beth Heath



# COLLEGE OF EDUCATION

## DEGREE OF MASTER OF ARTS

Donald Eugene Heilig  
Eleanor M. Heinrich  
Elvin Wayne Hepker  
Yvonne Briggs Hess  
Arnold Walter Hietala  
Mona Taylor Higbee  
Margaret McDonald Hill  
Martha Wolf Hill  
Edith V. Hilsenbeck  
Theodore E. Hinckley, Jr.  
Larry A. Hirschman  
Harold Lee Hodges  
Rita Holt  
Robert Michael Howey  
Sherryl James Huberts  
Walter Charles Hunt  
Richard Vincent Hyland  
Joyce M. Ilges  
Nancy Jane Inman  
Clifford Roy Irwin  
Norma Jean Jackson  
Betty Cosgrove James  
Marvin Leroy Jameson  
Barbara Jean Johnson  
Gail Lindsay Johnson  
Charles Robert Johnston  
Sarah Jo Jones  
W. B. Jones  
Donald Raymond Jost  
Anita Jean Kaiser  
Charles Edward Kamradt  
James Martin Kaple  
Carol Ann Kapnick  
Robert Lenox Kauffman  
G. Jeannette Kaupp  
Estamae Yerkey Kehus  
Karen Elaine Kelner  
Ronald Chester Kennedy  
Richard Lee Kent  
Norman George Kersten  
Nancy Mae Killiane  
Warren James Kilpatrick  
Barbara VanDyke Kirk  
Arthur Kirkeby  
Janet Lynn Klancnik  
Michael Scott Knauff  
Karen Ann Knobloch  
John Kornelis  
Joan Mary Kovach  
Robert Steven Krause  
Bonnie Kathleen Kruger  
Shuart Roy Kuik  
Estelle Carolyn Ladrey  
Maureen Ann Lapinski  
Karen Ann Larnard  
Sharon Colette Larys  
Robert Edgar Lee  
Nova Jean Leonard  
Lee James Lerner  
Wallace Alfred Liley  
William Herbert Lill  
Clifford Drew Lilly  
Paul E. Lingenfelter  
Patricia Ann Little  
Richard William Litwhiler  
Dale Meredith Lobdell  
Lawrence Howard Lonsway  
Nancy Sue Loomis  
Ambrose LoPresto  
Elias Lumpkins, Jr.

Donald Douglas Lund  
Alison Louise Lundell  
Sister M. John Lynch  
Ronald Kerr MacLennan  
Robert Lee Macomber  
Dorothy V. MacPherson  
James Oliver Madison  
Janice Wilcox Maier  
Martha Lynn Mallard  
Robert Charles Maniere  
Joseph William Mariage  
Carlos Eduardo Marin  
Marian Rebecca Marion  
Zelda Markin  
Pamala Ann Marmion  
Roland David Marmion  
Geraldine Powell Mathews  
Thomas Steikar Mattson  
Dolores Jo Maxwell  
Kathryn Jane Mayer  
Mary Ellen Mayette  
Kay LaVonne McCoy  
Helen Emaletta McDaniels  
J. Patrick McDevitt  
Clarence Earnest McDowell  
Susan Jane McDowell  
Frances Hayes McElligatt  
Gordon John McGinnis, Jr.  
Wilma Norman McIntosh  
James Willis McKee  
Colleen McNally  
Karen McNally  
Sandra Sue McNamara  
Charles Ellison McNeilly  
Marjorie Bordt Mead  
Susan Highstone Mello  
Roseann Kujawa Merges  
Allen LeRoy Metzger, Sr.  
Harvey Orin Middleton  
Jack Wallace Midgley  
Patricia Ann Miechiels  
Beverly Ruth Miller  
Gertrude Ann Miller  
Ronald Lee Miller  
Sheldon Homer Mills  
Phyllis Joan Miron  
Nancy Ann Moats  
Renée Broglio Moeller  
Ella Grace Moore  
Nancy Mae Moore  
Audrey Sue Morris  
Xenia Rebeca Moscote  
Albert Michael Mracna, Jr.  
Lola N. Mukogawa  
Allen Muller  
Carol Lea Murphy  
Ann Carr Musselman  
Jeannette Marguerite  
Narcisse  
Hazel G. Nash  
Margaret Hayes Nelson  
Vincent Neil Nevins  
Robert Clark Nixon  
Dorothy Ruth Nowka  
Marilyn Betty Oleson  
Elton Everett Olmsted  
Mark Christian Olsen  
Richard Paul Olson  
Richard Arnold Osgood  
Jere Ray Ossont

Eileen Sue Owen  
Mildred Heinselman Page  
Richard Burton Page  
Bernard Bruce Palmateer  
Patricia Ann Parish  
Manoch Parnto  
Allie Anica Parrish  
Sharon L. Pattengill  
Virginia Sudmeier Pavlovich  
Barbara Ann Pearson  
Burton Gerard Pegman  
John J. Peoples  
Donald Wayne Peththal  
Dale Allen Pettengill  
Dale Arnold Petterson  
Jeffrey Robert Pettinga  
Shriviroj Piampiti  
Mary Beth Piatt  
Geraldine Mae Pickett  
William John Pistono  
Bernard Pitterman  
Greta Plaisier  
David Ralph Pontius  
Josefina Yap Porter  
Carol Elizabeth Pratt  
C. Geneva Price  
Patricia Chapman Pulliam  
George Myles Rachels  
Phyllis Evelyn Rachels  
Charlotte Ann Reicks  
Harold Jay Reenders  
Bonnie Lee Rezmer  
Douglas A. Rice  
Martha Eleanor Rickard  
Marilyn K. Ricks  
Raymond James Riskey  
Edwin Francis Rivenburgh  
Harold Dean Roberts  
William Joseph Robinson  
Carol Lynne Roelofs  
Carl Benjamin Rohloff  
Carl H. Rothenberger  
Norman Ray Rubel  
Gordon H. Ruehs  
Herman Rummelt  
Mary Bayne Sanborn  
Richard Dean Sanborn  
Gloria Jean Sanger  
Robert Daniel Sawyer  
Fred Owen Saxton  
Donald Joseph Schaner  
Bernard John Scheele  
Emily Helen  
Schimmelpfennig  
Alice E. Schinkel  
Neil Haven  
Schmachtenberger  
John Ernest Schmult  
Jon Neil Schuster  
Donald Richard Scott  
James Frank Scott  
Dianne Louise Seaver  
Lucile H. Sebeson  
Harry William Sell  
Nancy Elizabeth Shaw  
Harriet Ann Sherwood  
Richard Anthony Sikorsky  
Harry Russell Smith  
Jolyn Sue Smith  
Margie A. Snook

## COLLEGE OF EDUCATION

### DEGREE OF MASTER OF ARTS

Charles Larry Snyder  
Peter Harold Solomon  
Eva Mae Somers  
Joanne Adele Sower  
Virginia Susan Sowizal  
Esther Harriet Sprague  
Damon Lee Springer  
Terry Robert Sproule  
Julianne Rose Steck  
Nelson Willard Stegeman  
Roger Wayne Steigenga  
Norman Lemmon Steinbacher  
Arla Louise Stelzer  
Laurence Bevan Stone  
Robert Davies Stone  
Stanley Strzalkowski  
Mary Virginia Sutherland  
Karen Charles Swanson  
William Benjamin Swears  
Cheryl D. Tanner  
Barbara Ann Taulbee  
Howard Shuirman  
Teitelbaum, Jr.  
Ronald William Temple  
Howard Jennings Teyssier  
Roy Joseph Thelen  
Carolyn Sue Thomas  
Nelson Edwin Thomas  
William Halford Thomas  
Larry Ruell Thompson

Mary Taylor Thursby  
Homa Alvin Tindall  
Bernard Paul Tobin  
Joseph William Toth  
Robert Kempf Townley  
Phillip H. Townsend  
Robert John VanderVeen  
Bernard Claude Vander Wall  
Linda Joyce Van Dyke  
Arthur Aaron Vasold  
Soodsaward Vatcharakiet  
José Mario Vilches  
Maldonado  
Susan Volpert  
Margaret Carole Voss  
Harry Alden Wagaman  
William Wah  
Robert Alan Wait  
Virginia Perkins Walters  
Rosetta Watkins  
Judy Kay Weaver  
Richard Hughes Weaver  
Martha Aaron Weber  
Ruth Ann Weber  
Janice Marie Webster  
Linda Marie Wellman  
Carol M. Welsh  
Gretchen Frances Caroline  
Werpshaw  
Robert Frank West

William Stearns Wheeler  
Eileen Ann White  
Diane Caroline Whiteford  
Alvida M. Whitman  
Suellen Garner Whitson  
Harry J. Widman  
Edward Stanley Wiecech  
Jerry Joseph Wiese  
Wade Charles Wightman  
Julia S. Wilber  
Avace Ellen Wildie  
Wyoma Lee Wilkinson  
Gail Frederick Williams  
Myrta Louise Williams  
Dorothy Jean Williamson  
David Ray Wilson  
Everett Ross Winzeler  
Ronald Eugene Wisner  
Otto Phillip Witt  
Frederic Phillip Wolff  
Barbara Gene Woodhull  
Gary Kostbade Wright  
Mohamed Ismail Zafer  
Alexander Anthony Zawacki  
Lucy Burke Zizka  
Richard Peter Zoodsma  
Henry J. Zuiderveen  
Irvin J. Zylstra  
Carolyn D. Zysk

### CANDIDATES — FALL TERM, 1968

#### *Education*

### DEGREE OF MASTER OF ARTS

Ralph E. Abuhl  
Loraine A. Ahler  
Osiris Cornejo Alnouri  
Vilaireun Ansuchote  
Carolyn H. Aubuchon  
Jerry Ann Beaufore  
Gerald Kenneth Behl  
David Reynolds Benham  
Sandra Jean Bladecki  
Richard Leon Bowzer  
Virginia Hetzman Bradford  
William Patrick Brady  
Emily Travis Brosier  
Fred E. Brown  
Emily R. Bruck  
Donald William Bruckman  
Richard James Buckmaster  
Constance Frances Burnagiel  
Leon Frederick Burrell  
Patricia Ann Carlisle  
Kay Janet Carstens  
Elaine Ethel Cherney  
Marilyn H. Cochran  
Barbara Ann Cook  
Mary Jo Crossman  
John Francis Cuneo  
Monte Mathew Czuhai  
Ada Pearl Davis  
Ned Alan Deater  
Robert F. Dendy  
Nuntariga Dhanasakdi  
Judith Anna Duvall

George Russell Eaton  
Constance Elizabeth  
Emshwiller  
Sharon Dee Evans  
Barbara Ann Farrell  
Harlan Roger Feeman  
Virginia Ruth Fields  
Keith Reynolds Fife  
Willis Fifer, Jr.  
Gary Charles Gamrath  
Beth Ann Garn  
Neville Asquith de  
Carteret Gayle  
Gary Lynn Gillespie  
Bette Ruth Goldstein  
Daniel Jacob Graber  
Michael Clark Greenisen  
Bonnie Gail Griffith  
Charlene Wright Hall  
Sharon Lee Hall  
Richard Craig Handel  
George Robert Harmon  
Donna Eddy Heiner  
Robert William Herrmann  
Virginia Ruth Herzog  
James Walter Holmes  
Diane Ruth Horton  
Jean Harue Ishikawa  
Prapaipan Ittigul  
Elisabeth Janet Jacobsen  
Abdulrahman Ibrahim  
Jammaz  
Gary Leland Jones

Barbara Joslyn  
Richard Edward Kelly  
Myrna Mae Kephart  
Kiat Kosaisuntorn  
Kenneth Carl Kreger  
Roger B. Landsburg  
Lenus George Leblanc  
Judith Payne Lehman  
Lynnette Kay Leslie  
Vernon Linton  
Michael James Loupe  
I. Charles Maltese  
John Ronald Matthews  
Robert William McConnochie  
Neil Jerry McPhee  
Gail Lyn Miller  
Stephan Nason  
Jane Johnson Olsen  
Philip Robert Owen  
Dominic A. Palazzolo  
Roger Dean Pech  
Thomas Kent Perry  
Donald Lee Peters  
James Michael Peters  
William C. Petti  
Doris K. Powe  
Carrie McDonald Prater  
Carolyn Dawn Reifinger  
Norman Edward Riestler  
Margaret E. Rink  
Jean Borden Robinson  
Anacleto Rodriguez, Jr.  
Janyce Caryle Rogers



# COLLEGE OF EDUCATION

## DEGREE OF MASTER OF ARTS

James Russell Romaniuk  
Beth J. Sage  
Siswardojo Sarodja  
Brenda Elaine Schipper  
Jacqueline Ann Brown  
Schrecengost  
Charles Alfred Schroeder  
Marian Cathryn Shaffer  
Don Earl Smith  
James Bernard Smith  
John Paul Sormunen  
Eileen Louise Spalding  
Roger Doynne Spann

David Joseph Stoltz  
Helen M. Strong  
David J. Struble  
Jerome Nicholas Stump  
Thomas Baum Taft, Jr.  
Judith Ann Tanck  
Dace Kligers Taylor  
Frank William Thiel  
Maxine Hazzard Torrey  
Arno Henry Wallschlaeger  
Kenneth Ralph Washington  
Philip Allan Wheeler

Patricia Ramsdell Widmayer  
Louis J. Wieber  
James Lewis Wilson  
Judith Ann Wilson  
Richard Ronald Wojick  
Eugene Robert Wolney  
Dorothy Cruze Worsham  
Edward Clive Wright  
Harry T. Yamanaka  
Mary Kay Yancer  
Lola Mary Zaremba  
Judith Hill Zimmerman

## DEGREE OF BACHELOR OF ARTS

### Elementary Education

\*Melinda Jane Babb  
\*Sharon Lee Bailey  
Judith Lee Bellinger  
Lois A. Biermacher  
Gayle Ackley Bila  
Linda Howell Blanding  
\*Marianne Monica Bogen  
Kay Pumphrey Brennan  
\*Mary Margaret Brown  
Sheryl Lynn Brown  
Grace Ann Buckman  
Mary Alice Buginsky  
Linda Margot Cacciaglia  
Linda Jo Carlson  
Terrill Ann Cooper  
\*Mariann Jean Debevic  
Patricia Gale Decker  
Patricia Kay DeClark  
Jean Marie Di Cola  
Sue Ann Edlin  
Bertha Francine Edwards  
\*Jane Berneice Eichorn  
Janet Irene Fisher  
Julie Ann Fisher  
Judi Ann Frank  
David Martin Gahsman  
Mary Ellen Gambrel  
Mary Newton Genova  
Suzanne Kathleen Gleason  
Judith Ann Gottlieb  
Marsha Suzanne Greshow  
Sue Hartman Haenlein  
Christine Ann Hamilton  
Mary E. Harter  
Marsha Ann Harwood  
Joann Lou Helmbold

Mary Margaret Herpich  
Andrea Susan Hohauser  
Annette Elizabeth Hood  
Sandra Charlotte Howse  
Susanne R. Humphrey  
Linda K. Jackson  
\*Carolyn Watson James  
Mary Ellen Jancar  
\*Diane B. Jarpe  
Lynne Elizabeth Jewell  
Monica Marie Johnson  
Judith Lynn Koske  
Patricia Ann Krasun  
\*Hazel G. LaBour  
\*Judy Lynne Lazette  
Ann Michelle Lefkowitz  
Linda Kay Leon  
Elizabeth Ann Lewis  
Deborah Mary Loftus  
Margaret Jo Lott  
Linda Nadine Lowrie  
Doris Boren Luther  
Diana Lynn Mantey  
Sharon Alice Matrella  
Mary Margaret McAllister  
Suzanne McDonald  
Priscilla Ann McElmurry  
James Roger McFall  
\*Diann D. McGinn  
Mary Jane McKenzie  
Mary Elinor Meyers  
Sandra Ann Mindykowski  
\*Joann Marie Napoleon  
Florence Lynne Oegema  
Susanne Elizabeth Ofiaro  
Linda Pitchford O'Neil  
Sandra Kay Oosterbaan

Yvonne Renee Oudin  
Linda Hollis Patmon  
Kay Alice Peckham  
\*Jean Kay Perry  
Lauren Jean Potkin  
\*Laurene Marguarite Potter  
Bonnie Ohland Pulawski  
Janice Elizabeth Rake  
\*Joyce Marie Reckker  
Jean Rogers  
Sherrie Lynne Roth  
Cynthia Suzan Rowe  
Ingrid Juanita Saunders  
Margo Ann Schaffer  
Joy Marie Schweinsberg  
Christine Nicola Shuraleff  
Corliss Smoot  
Judith Rosslyn Solberg  
Linda Kay Somers  
Stephne Cleo Staples  
Gail Trapp Straight  
Carolyn Lee Thompson  
Susan Jane Thompson  
Constance Lannert Tomczyk  
\*Jane Schuster Townsend  
Janet Kay Updegraff  
Cornelia Hendrika Van Dyk  
Susanne Kay Veatch  
Lindy Voight  
Carol Fern Walton  
Patricia Sue Ware  
Julie Morrisette Weaver  
\*Sandra Kaye Westmoreland  
\*Lucada Mahar Wittenbach  
\*Gail Patricia Wright  
Karen Cecile York

## DEGREE OF BACHELOR OF SCIENCE

### Health, Physical Education and Recreation

James Anthony Born  
David Loyd Croft  
Dianne Marie Gardiner  
Karla Ann Holmes  
Gatis David Lusi

Bruce Evan McPherson  
Paul H. Meyer  
Rodney Ray Ott  
Jon Alan Phelps  
Marilyn A. Roach  
Katherine Ann Shay  
Jeaneen Ann Titsworth  
Barbara Louise Vary

Roy A. Warner, Jr.  
Industrial Arts  
Robert E. Roberts  
David Roe Sackett  
Gerald William Sherman  
Carl Henry Sturgeon

\* With Honor  
\*\* With High Honor



# COLLEGE OF COMMUNICATION ARTS

JACK M. BAIN, DEAN

## GRADUATED SUMMER TERM, 1968

DEGREE OF  
MASTER  
OF ARTS

### Advertising

William Gibson Foster, Jr.  
Robert Martin Jones  
Albert James Malouin  
George Edward Prough  
Alfred Clayton Wieboldt

### Audiology and Speech Science

Anne Newbold Berg  
Mary Ellen Crowley  
Margaret Anne Goss  
Michael Ward Griffin  
Linda Sue Heady  
Barbara Jean Lueck  
Carrie Harriette McClary  
Laurel Nesson  
Garry Lee Page  
Gretchen Adams Syfert  
Marion Jane Ulrich

### Communication

David James Frederick  
Beatty  
Murlene Elisabeth Dowding  
Richard Lyle McGraw  
Fred Charles Pearman  
Nancy Jeane Piet  
Jerome John Poplar  
Shan Pang Yien

### Journalism

Stanley I. Soffin  
Judith Braund Wagner

### Speech and Theatre

Loren James Anderson  
Herbert Wayland Cummings  
Dixie Lou Durr  
Lou Arnette MacGready  
Frances Lee Thornton  
James Arthur Wayne

### Television and Radio

Richard Dale Estell  
Richard D. Garlick  
John Daniel Gorski  
Mark Stephen Hayes  
Frank E. Hoag, Jr.  
Douglas James Kauffman  
Mary Joanne Lee  
Douglas Lynn McKnight  
Raymond Andrew Miller, III  
Marie Ann Rice  
Kay A. Smith  
James Frederick Ter Louw

### Theatre

Leeds B. Bird  
Thomas Leslie Clark  
Robert Gilley Duntun, Jr.  
Vicki Jean Sanchez  
Phillip Ransom Sturdevant  
Scott Johnson Weldin

## CANDIDATES — FALL TERM, 1968

DEGREE OF  
MASTER  
OF ARTS

### Advertising

Herbert Nelson Ashley  
Stephen Lee Byrnes  
John Allen Garrett  
Philip Jerome Smith  
Gary David Styrk  
Roger William Williams

### Audiology and Speech Science

Cathleen Diane Arbaugh  
Naomi Berney  
Carol Marcia Hersch  
Dianne Ruth Vertes

### Communication

Ann Marie Christiansen  
Lytton Leite Guimaraes  
David Lee Landsburg  
David Kenneth Lindley  
Elizabeth Jane Niman  
Sripada Kulagatte Subba  
Bhatta Raju  
Sulata Rudra  
Richard Keith Thomas

### Speech and Theatre

David Raymond Bates  
Judith Ann Dillon  
Vincent Wilfred LaPointe, Jr.  
William Richard Linebaugh

Nancy Blue Nielsen

### Television and Radio

Stuart Louis Brower  
William O. Cooperman  
Frederick Charles Kolloff  
John James McConnell  
Thomas Anthony Pegan  
Brian Carl Rublein  
James Robert Smith  
James Horace Stone  
Robert Raymond Zook

### Theatre

Mary Margaret Larkin  
Dolores Theresa Viola

# COLLEGE OF COMMUNICATION ARTS

## DEGREE OF BACHELOR OF ARTS

### Advertising

William Nelson Beckwith  
Paulette Ann Bissen  
John Jarvis Blohm  
Gregory Hugh Boyd  
Joel Stephen Brilliant

\*Lynnette Cartee  
Suzanne Lindsay Drulard  
Michael Edwin Forrest  
Larry Dale Franklin  
Bob Falconer Hay  
Lynn Ellen Hubbard  
Everett Cooper Johnston  
Bruce Edward Matasick  
John Palmer Morgan  
Gregory Shull Moser  
Arla Jeanne Phenicie  
Gerald Michael Repp  
Russell Willis Rodgers  
David Bernard Ryan  
Venetta Jean Springman  
Robert Holsted TenEyck, Jr.  
James Gifford Vannier  
Terry Jon Worden  
Kenneth Simon Zalla

### Audiology and Speech Science

Lawrence Michael Moher

### Communication

\*Trecia Ann Long  
Robert Michael MacKercher

Edmund Michael Oldani  
Lee Alan Schleicher  
Dennis Joel Simon  
Karen Marie Woodson

### Journalism

\*Robert Marr Byington  
Judith Ellen Helberg  
Paula Joann Matheson  
Sandra Kay McPherson  
Sheila Ann Middaugh  
Stanley Keith Morgan  
Walter John Petersen

### Television and Radio

Thomas James Allor  
Christina Lynn Brasher  
John Haas Campbell  
Thomas Clayton Chapman  
Mark Allan Chartrand  
Kenneth J. Fife  
Chandler Lyman

Garrison, II  
Robert Davern Johannes  
Richard Louis Kalb  
William H. Kerner, Jr.  
Gregory George Kindt  
Robert McClelland Peterson  
Robert Douglas Schlappi  
James Thomas Schultz  
Chester Allen Tomczyk  
\*John E. Walkmeyer, Jr.

### Theatre

Menno John Marvin Kraai  
Lynn Fraser McPherson  
Charles Eugene Stephenson

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

### Audiology and Speech Science

Amy Louise Edgar  
Susan Ann Feinberg  
Beverly Ann Hern  
Carol Quinn Kocsis  
Ronald Harold Rasmussen  
\*Gloria Joy Seabold  
Christy Joyce Tabb

### Communication

H\*Joan Gwen Essink  
H\* Sandra Lynn Filion  
Linda Lois Moakes  
Norma Hilyard Perris  
Rosemary Elizabeth Wall

### Theatre

Carolyn Elaine Farmer  
H\* Julie Ann Hornstein



# COLLEGE OF ARTS AND LETTERS

PAUL A. VARG, DEAN

## GRADUATED SUMMER TERM, 1968

DEGREE OF  
MASTER  
OF ARTS

Art History

Ann Silvernale Bowden  
Robert Thomas Sheardy, Jr.

Art Practice

Carol Ann Ball  
Leonard Royce Fuller  
Montee J. Hoke  
James Frederick Martin  
James Andrew Wing

Comparative Literature

Jacqueline Levy Resnikoff

English

Robert Bruce Chamberlain  
George Graeber  
Thomas Jonathan Hruska  
John William Johnson  
Richard Douglas Jordan  
Virginia Kathryn Kirk  
Linda Lou Neely  
Elliot Steven Podwill  
Sandra Dianne Sandell  
Margaret Elizabeth Wingard

English-Secondary

School Teaching

Milburn Charles Amundsen  
Roberta Kaye Bird  
Carole Jane Brown  
Donald Robert Freel  
Rhea Irene Gaunt  
Philip O. Jung

Brian Lee Kiernan  
Sally Kay Madison  
Marlene Regina Maniere  
Judith Blackstone Mullens  
Carol Clark Owens  
Mollie Friedman Zweig

French

Bernard F. Fitzgerald  
Hans Jurgen Kriz

German

Dale Irving Giddings

History

Ned H. Bennett  
Jack Arthur Bonsor  
Benjamin Joseph Burns  
Sandra Sageser Clark  
Richard Jay Eppinga  
Roger Lee Foster  
Richard Albert Frusher  
John Russell Hall  
Sandra Ruth Heberer  
James Edward Hengstebeck  
Kenneth Wayne Hermann  
Marianne M. Hruska  
Rodney Howard Joseph  
Michael Thomas Kelly  
Cheryl Lee Mack  
Nancy Barlow Meulendyke  
Lynette Kim Oshima  
James Elliott Patterson  
Anthony Edward Reis  
Peter Edward Robyns

Michael Anthony Rocca  
Kenneth Le Roy Smith  
Dwight Nash Syfert  
David Wayne Tuls  
John Francis Wukovits

History-Secondary

School Teaching

James Chapin Bradford  
Loren Eric Lomasky  
Daniel Matthew Masterson  
Sherrill Arlene Wharff  
Bonnie Sue Zoloto

Linguistics

James Joseph Duran

Musicology

Dewain Lewis Richter

Philosophy

Jill Gray  
Walter John Herrala  
William George Stouffer

Russian

Lloydanne Holmes

Spanish

Mauricio Alberto Alegria  
Peter Luis Barba  
Janis Marie Greene  
Salvino Lostuzzi  
José Antonio Madrigal  
Mary Lee Wiepking

DEGREE OF

MASTER

OF ARTS

FOR TEACHERS

English

Jack Dingman Jourdain

History

Richard Herman Fox



# COLLEGE OF ARTS AND LETTERS

## DEGREE OF

## MASTER OF

## FINE ARTS

### Art Practice

Diane Lynne Cheeseman  
Russell David Kleis

Gerald Duwane Lang  
Kathryn Louise McCleery  
Joel A. Miller

Alan Gudemoos Vigland  
Glen V. Washburn

## DEGREE OF

## MASTER

## OF MUSIC

### Applied Music

Paul Howard Kirby  
Fredric William Moses  
Gary A. Smeltekop  
Thomas Oakley Thompson  
Linda Joanne Vickerman

### Music Composition

David Henry Maslanka

### Music Education

James LeRoy Cockcroft  
Lee William Emig

Harold Garner Freeman  
Eileen Grey Houston  
Ralph Alexander Kidd  
Gloria Lee Mooi  
Judith Fennell Ruffin  
Louellyn K. Schramm  
Joseph David Scott

## CANDIDATES — FALL TERM, 1968

## DEGREE OF

## MASTER

## OF ARTS

### Art Practice

John Maxson Carpenter, Jr.  
Hermann Harry Kosak  
Thomas R. A. Kuester  
Robert John Phardel  
Barbara Ann Rausch

### English

Cynthia Anne Farden  
James Thomas Gresham  
John Harold Hershey  
Jon Jellema  
Michael Clendon Pelfrey  
Donald Howard Raiche  
Yasmin Mody Richmond  
Constance Jean Snapp  
Ruth Ann Verlinde

### English-Secondary School Teaching

David Lee Piet  
Richard Harold Wetters

### French

Tatiana Balasis  
Jeanne Helen Cardot  
Sylvia Yvonne Engel  
Mary Patches Keller  
Susana Reymond Palmieri

### German

Paula Swickard Leming

### History

Ruth Judith Chojnacki  
John Joseph Contreni

Jacqueline Kay Harper  
Sister Catherine Jones  
Vikrom Koompirochana  
Richard James Moss  
Bruce Alan Rubenstein  
Robert Bruce Turnbull

### Linguistics

Lee Edward Bohnhoff  
Kenneth L. Stallcup

### Philosophy

Carol Stiner Haverfield

### Russian

David Alan Dashner  
James Henry Price

### Spanish

Gloria Romero Downing

## DEGREE OF

## MASTER

## OF MUSIC

### Applied Music

Robert Henry Olson  
Christine Michelle Smith

### Music Education

Natalie M. Matheson  
Gary Richard Oberlin

Barbara M. Rankin

## DEGREE OF

## BACHELOR

## OF ARTS

### Art Practice

Robert Anthony Agli  
H\*\* William Cesare Cesaroni  
Janet Mary De Vlieg  
John Lawrence Evans, Jr.  
David Charles Firth  
Edwin Frank Kulback  
Daryl Lee Shanck  
Michael Siporin  
Peggy Anita Wood

### English

Marlene Barton  
Patricia Anne Clarry  
H\*\* Constance Jean Fisher  
Ojars Karl Gailitis  
Phyllis Walker Gilstrap  
Dorothea D. Grebel  
William Greer Hardwick  
H\* Kathleen K. Harkness  
H\*\* Jo Angela Hartsoe  
H\*\* Susan Stone Hughes

Louis U. Kohler, Jr.  
Christine Ann LeGasse  
Patricia Jean Randall  
H\* Lani Jean Smalley  
David Lee Smith

### French

\* Pamela Jean Thomas

### History

Paul Christopher Casey

H Honors College  
\* With Honor  
\*\* With High Honor

# COLLEGE OF ARTS AND LETTERS

## DEGREE OF BACHELOR OF ARTS

Raymond Earl Chapman  
Lila Fern Colby  
Patricia Anne Dincau  
Thomas Michael Fink  
Jack Erwin Fry  
Michael Goldstein  
Theodore Duane Hilleary  
James Bert Katona  
H\* Lynn Marie Penchalk  
David Ward Service  
Paul Edward Speck  
Frederick Rodney Welsh  
Michael Joseph Williams  
Jacqueline Rachelle Zogut

### Humanities

H\* Janet Martha Draper  
H\* Catherine Hoven  
Mary Kathleen Howarth  
\* Pamela Jafke  
John Robert Jones  
\* John Cameron Lamb  
Earl J. Lawrence  
Adrienne Roelofs  
Regina Wanda von Schmeling  
Ann Louise Wulff

### Latin

Catherine Ann Cauffield

### Philosophy

\* David Chester Vorce

### Religion

Vladimir Demshuk

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

### Art Practice

Barbara Elise Coletta  
Gail Rosalie Calleck  
Louan Evelyn Lechler  
JoEllyn Radebaugh  
Patricia Jean Sachen  
Diana Lynn Treece

### English

\* Helen Marie Bedtelyon  
Betty Sparks Blackledge  
Charlotte Sue Brown  
\* Gretchen Gay Brown  
Susan Lee Burkard  
William Francis Costello  
Mary Ann Davis  
Gloria Miller Dillingham  
\* Diane Marie Glowacki  
\* Donna Jean Glowacki  
Penny Lynne Hosner  
W. Jean Kahn  
Lorraine Lepaule  
\* Jovina Rae Oley  
Alicia Gaile Pollard  
John Murdoch Raymond  
Necia Kelly Sharkey

Philip Ray Sheldon  
David Lee Smith  
Kathleen Ann Swonk  
Nancy Ruth Thompson  
\* Christine Fern Wackerle  
Gail Marie Wadell  
\* Kathleen Ann Wilmot

### French

Barbara Jean Gowell  
Janet Elaine Soderstrom

### German

\* Nancy Janice Rehling

### History

Dawn Lee Bryde  
Janet Kay Dunn  
Robert Perry Fry  
Gary James Gleason  
Ellen Jane Kolemmainen  
H\* Victoria Sue Lowes  
\* Marjorie Lynn Mack  
Gloria Joan Reasor Pitts  
Walter Pytlak  
William Lynn Roberts  
David Barr Silver  
Patricia Mary Spice  
Lynn Annette Troost

### Spanish

Carol Diane Burke  
Janet Lee Popenhagen  
Dolores Jean Smith

## DEGREE OF BACHELOR OF FINE ARTS

### Art Practice

Jeffrey Hulley Dayne  
Thomas Michael Shannon  
\* Robert Cecil Stern

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

### Art Practice

MaryAnn Paskiewicz

## DEGREE OF BACHELOR OF MUSIC

### Music Therapy

\* Nancy Orton Keiser  
Deborah Lynn Melamed  
Judith Lynn Portz  
H\* June Ann Raad

### School Music

Thomas William McNeil

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

### School Music

Justin Robert Houston, III  
Mary Catherine Maxwell  
H\* David Conrad Sebald  
Cole Brooks Tyrrell

H Honors College  
\* With Honor  
\*\* With High Honor



# COLLEGE OF NATURAL SCIENCE

RICHARD U. BYERRUM, DEAN

## GRADUATED SUMMER TERM, 1968

DEGREE OF  
MASTER  
OF ARTS  
FOR TEACHERS

Biological Science-  
Interdepartmental  
Juanita C. Assiff  
William John Rausch  
Ann Ruth Walley  
General Science  
E. Kenneth Brown  
Barbara Jean Cunningham

Paul John Kokoszyna  
Joseph Chong Lee  
Wayne John McEwen  
Owen Adelbert Perkins  
Pricha Vongchusiri  
Mathematics  
Sharron Kay Forgrave  
Larry A. Freds

Marshall Murray Grad  
Vicki M. Hightower  
Physical Science-  
Interdepartmental  
Donald Eugene Nearpass  
David W. Peabody, Jr.

DEGREE OF  
MASTER  
OF SCIENCE

Biological Science-  
Interdepartmental  
Terrance Edwin Brisbin  
Francis Joseph Dorais  
Thomas Lotell German  
Donald Fred Landrum  
John Edison Lawrence  
Dale Walter Long  
John Edward Lovrinic  
Roger Louis Nealeigh  
John Edward Sohlden  
Clarence Willard Stevenson  
David Gilbert Tompkins  
Gary Lee Van Goethem  
W. Sedgefield White, Jr.  
Howard Phil Woodard

Botany  
Dorothy Sue Dunn  
Patricia Snyder Helma  
Louis Yeager Marquis

Chemistry  
Andrew T. Au  
Delores Maureen Bowers  
Kala Gale Reynolds  
Anthony David Wolf

Entomology  
Gordon Lee Boggs

George Edwin Klee  
Gary Voyle Manley  
Dell Hammond Siler

Geology  
Russell Gould Clark, Jr.  
Thomas Allan Herbert

Mathematics  
Harvey Robert Briggs  
Daniel Lawrence Clemens  
Dwight Dallas Colby  
James Mark Fields  
Bruce Wayne Gaff  
Nancy Miao-ying Hsu  
David Karl Karlgaard  
Robert Carl Lytikainen  
Boyd Albert Pearson  
David Ray Peterson  
William Harry Powers  
Francis Martin Skalak  
William Arthur Thrash, Jr.  
Robert Jennings Waldron, Jr.  
Carol Louise Wolverton

Microbiology  
Russell Howard Neubauer  
William Charles Wallen

Physics  
Stanley Haim Fox  
T. Joseph Kurian  
Richard David Nelson  
Ronald Dean Painter  
Eric Hayden Pierson  
Deanne Dorothy Proctor  
William Arthur Ruff  
William George Smethells  
John Peter Volpi

Physiology  
Michael Bruce Fairbanks

Statistics  
Parichereh Tabrizi Akhavan  
Robert John Ballard  
Terence James McKenna  
Rekha Ramanlal  
Mehta-Kothari  
Yung Sung Wu

Zoology  
Susan Eileen Anderson  
Im-mer Hsin  
Ajovi Blessing  
Scott-Emuakpor  
Carmen Celia Umpierre

## CANDIDATES — FALL TERM, 1968

DEGREE OF  
MASTER  
OF ARTS

Statistics  
Terry L. Gotts



# COLLEGE OF NATURAL SCIENCE

## DEGREE OF

### MASTER

### OF ARTS

### FOR TEACHERS

Biological Science-  
Interdepartmental  
Maurice Lee Land

Chemistry  
Peter Henry Huston

Mathematics  
David Lynn Skinner

## DEGREE OF

### MASTER

### OF SCIENCE

Biological Science-  
Interdepartmental  
Robert Russell Cook  
William Earl Richmond

Biophysics  
John Richard Haight  
Duane Gary Leet

Botany  
Norman A. Andresen  
Richard Lee Halbert  
Rajnikorn Ouitrakul  
Olen Curtis Yoder

Chemistry  
Christopher Chike Ezzeh  
Anne Mary Fenerty  
James O. Huml  
John Fredrick Myers  
Shedrach Oguzie Nweke  
Ronald Michael Rogowski

Entomology  
Jeffrey Granett  
Dennis Ray Heiman  
Erik Kirk Kirknel  
Geology  
Carleton Scott Babb  
Michael William Barratt  
James Wilson Bradley  
Mahmoud Majedi  
Roger Waite Peebles

Mathematics  
Marvin Ray Crossnoe  
Sandra Mary Gulling  
Wendy Chung-Yu Liu  
Lee Nussdorf

Microbiology  
Hugh Timmer Fauser  
Inguna Silavs Fauser  
Howard Aaron Glick  
Greg Richard Olson  
George Henry Van Amburg

Physics  
Frank Paul Bolin  
Donald Frank Clark  
Clyde H. Evans  
Ivan Dwight Proctor  
George Frederick Trentelman

Physiology  
Thomas Dudley Burns  
Elias Dickerman  
Kevin Michael Etta  
Douglas Brian Fonner  
Thomas Henry Gieske  
David Keith Michael  
Daniel Radawski  
Anne Ingrid Weber

Statistics  
Kwai-Ling Chan

Zoology  
Isaad Mokhtar El-Darwish  
Patricia Ann Scruby

## DEGREE OF

### BACHELOR

### OF ARTS

Chemistry  
Michael Lesnik

Mathematics  
Vincent Peter Kowalski  
Mary Louise Salehi

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

Mathematics  
Delores Ann Karnitz

## DEGREE OF

### BACHELOR

### OF SCIENCE

Biochemistry  
Robert F. Robyns

Biological Science-  
Interdepartmental  
\*\*Richard Ross Nelson  
Laima Sopys

Geology  
\*Douglas James Bacon  
\*Elmore E. Eltzroth  
Behzad Pak  
H\*\*Dion C. Stewart

Mathematics  
Edward Russell Cole, Jr.  
H\*\*Audrey Piltch Ferry  
\*Richard Morris Finkbeiner

H Honors College  
\* With Honor  
\*\* With High Honor

\*Phyllis Marcia Heppenheimer  
Carol Anne Hunt  
Kenneth Charles Lane  
\*Ellen Ruth Mintz  
Wayne Corolus Pelmeier  
Sheida Chaemmaghami  
Ryerson

Microbiology  
Alan Merl Hukill

Nursing  
\*Anne Patrice Albright  
Jean A. Ferris  
Joanne Elizabeth Fitzpatrick  
\*Mary Louise Myrkle  
Lianne Thais VanSluyters

Physical Science-  
Interdepartmental  
John Herbert Anderson  
James Earl Carne  
H\*\*Michael Edward Grost  
Jack Douglas Marsh  
Richard Rowland Ramseyer

Physics  
Donald Leonard Feinberg  
Dale Gordon Hall  
Ford Tam

Zoology  
Andrea Jo Clinch  
H\*\*Leon Francis DeJongh  
\*Charles Dean Moore

# COLLEGE OF NATURAL SCIENCE

DEGREE OF  
BACHELOR  
OF SCIENCE

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

Biological Science-  
Interdepartmental  
Carol Ina Carnevale  
Jean M. McPherson  
\*Sandra Jean Ogle

Chemistry  
\*\*Gerald Thomas Blair

General Science  
Joseph Michael Boda

Mathematics  
\*Barbara Elizabeth Anderson  
Larry Reese Galbraith  
Kathy Gail King

Richard Ray Konwinski  
Dale Edwin Nuoffer  
\*\*Mary Lou Paige  
\*Janette Lucy Santerre  
H\* \*Susan Mulkey Selke  
Steven James Spicer  
Evelyn Marie Sullo

Physical Science-  
Interdepartmental  
Ronald Andrew Ginther

H Honors College  
\* With Honor  
\*\* With High Honor

# COLLEGE OF SOCIAL SCIENCE

C. L. WINDER, DEAN

## GRADUATED SUMMER TERM, 1968

|  |   |   |   |
|--|---|---|---|
| DEGREE OF<br>MASTER<br>OF ARTS                                 | <u>Anthropology</u><br>Tarasish Mukhopadhyay  | Benjamin Beit-Hallahmi<br>Stanley Hymie Cohen<br>Deirdre Fergus Conway<br>J. Wayne Hathaway Decker<br>Terry Lee Hickey<br>Alexis Arleen Johnson<br>Reid Petree Joyce<br>Robert Alan Kaplan<br>Irving Mark Lane<br>Lennard Alan Leighton<br>Dario Perez-Yanes<br>Roger Alan Woudenberg | Sumitr Pitiphat<br>Karen Lynn Schroeder<br>James Harold Turcott   |
|  | <u>Geography</u><br>Charles Clifford Hall   |   | <u>Sociology</u><br>Paul W. Aardsma<br>Jorge Raul Jorrat<br>Laura Lynn Morlock<br>Brian Malcolm Petrie<br>Mohammad Mehdi Salehi<br>Shelby Oneal Stewman<br>William Stuart Tregear<br>Paul David Tschetter |
|  | <u>Political Science</u><br>Marc Asch, III<br>David Allen Cope<br>Alan Foster Kolb<br>Jeanne Gobble Martin  |   |   |
|  | <u>Psychology</u><br>Stuart Jerome Agres<br>Judith Ann Basch  | <u>Social Science</u><br>Constance Bogh Dicesare  |   |
|  |   |   |   |
| DEGREE OF<br>MASTER<br>OF ARTS<br>FOR TEACHERS                 | <u>Geography</u><br>Leonard John Grams  | <u>Social Science</u><br>Diane Edwards Bell   | John Arthur Greenman<br>Robert J. Zizka, Jr.  |
| DEGREE OF<br>MASTER OF<br>LABOR AND<br>INDUSTRIAL<br>RELATIONS | Paul Lawrence Billingsley<br>Janie Elmira Ogilvie   | Jeffrey C. Perrett<br>Sidney Rosen  |   |
| DEGREE OF<br>MASTER<br>OF SCIENCE                              | <u>Police Administration and<br/>Public Safety</u><br>Gary Glen Allison<br>Charles Hucles Bailey<br>William Peter Blesi<br>Frances Lynn Brokaw<br>Richard John Caretti<br>Luther Bernard Dunfee | Donald Richard Dwyer<br>Francis Henry Gilday<br>Carl V. Goodin<br>Dipak Halder<br>Wayne Bruce Hanewicz<br>Wesley S. Harvey<br>Charles Dwight Humphries<br>George Russell Kaine  | Lawrence Eugene Mahany<br>Philip Cearnley O'Sullivan<br>Charles Francis Peterson<br>Leo Jerome Roppo<br>John Duane Shepard<br>Hilarius Ferdinand Vincke<br>David George Walchak                           |



# COLLEGE OF SOCIAL SCIENCE

DEGREE OF

MASTER OF

SOCIAL WORK

Mary Gracia Berchan

John Richard Cole

Dorothy Eva Guenther

DEGREE OF

MASTER

IN URBAN

PLANNING

Satyendra Singh Huja

## CANDIDATES — FALL TERM, 1968

DEGREE OF

MASTER

OF ARTS

### Anthropology

Jacob Joseph Climo

### Geography

J. Patrick Brackin  
Wallace Malcolm Elton  
David Robert Hicks  
Mary Lewis Lichtenberg  
Arthur George Limbird  
Michael Gene White

### Political Science

Bertrand Y. Kobayashi  
David Robert Morris

### Psychology

Bruce Lowell Bachelder  
Charles Jon Brainerd

Judith W. Davids  
Andrea Farkas  
Michael Howard Figler  
Gerald Millard Gillmore  
Bonita Gullette Green  
Peter Todd Hampton  
Jeannette Marie Haviland  
William Robert Ives  
John Richard Jones  
Lawrence Joseph Krips  
Antoinette Krupski  
Robert Marion LaFollette  
Myrna Ellen Lane  
Catherine Elizabeth  
McGuinness  
Stephen William Porges  
M. Peter Scontrino  
Larry Dean Smyth  
Patricia Resek Updyke  
Glenn James Veenstra, Jr.

Earl Donald Walker  
Michael Arthur Weiss  
Cheryl Bowshier Whalen

### Social Science

Shirley Ford Ellison  
Theodore John Krause

### Sociology

Susan McClellan Asch  
Deborah Jean Barndt  
Philip Shaw Hart  
Chiu-Tze Hong  
Robert Ernest Krebs  
Robert M. McCann, Jr.  
H. Gilbert Peach  
Mark Hayes Pittman  
Thomas Vallamattam  
Wiqar Husain Zaidi

DEGREE OF

MASTER

OF ARTS

FOR TEACHERS

### Social Science

James M. Saad

DEGREE OF

MASTER OF

LABOR AND

INDUSTRIAL

RELATIONS

Garth Lindley Abdulah  
Taie Ping Ang  
John Paul Brennan  
Richard Lawrence Kinstler

Charles A. Minor  
Jane Louise Simon  
Gordon Ralph Stauffacher  
Douglas Keith Tobin

Richard Neal VanHaaften  
Roger Glenn Wallace  
William Walter Wittliff, Jr.

# COLLEGE OF SOCIAL SCIENCE

## DEGREE OF MASTER OF SCIENCE

Police Administration and  
Public Safety  
Roger Leonard Allen

Knowlton William Johnson  
John Cecil Kelley, III  
Arthur Adams Kingsbury  
Lawrence Robert Nowery

Michael Waddington O'Neill  
John Edward Russell  
Clifford Gerald Ryan  
Randall David Scott

## DEGREE OF MASTER IN URBAN PLANNING

Stephen Warren Schar

## DEGREE OF BACHELOR OF ARTS

Anthropology  
Loretta Forte  
Dennis Roque Manrique  
Tamsin Lee Murphy

Geography  
David Aaron Komisar  
Jerry Lee Larson  
Bryce Jordan Sunderlin

Political Science  
Gail Ruth Beddow  
Barbara Susan Bradley  
Gary James Durkin  
Walter A. Felts  
Daniel Mark Fuchs  
Rolf Stigum Groseth  
Jacqueline Winstead Johnson  
Frank Warwick Kasten  
Thomas William Kelly  
H\* Nancy Jane Kindel  
H\* Cary Ira Klaffer  
Robert Hayes Landry  
Mark Joseph Lindsay  
James Irvin Lore, IV  
Dennis Allen Massingill  
William Howard  
McClaskey, Jr.  
DeWayne Louis Oberlander  
James Arthur Penn  
James Joseph Scahill  
H\* James Dingwall Spaniolo  
Ronald Jeffery Walker  
Donald William Welsh

Psychology  
Lewis George Abraham  
Karin M. Ball  
Patricia Gay Berg  
Karl H. Beysiegel  
H\* Donald Pendleton Carolus  
H\* Thomas Eugene Dailey  
Margaret Ellen DeYoung

H Honors College  
\* With Honor  
\*\* With High Honor

Linda Nelson Hagan  
Karl George Johnson  
Robert D. Lepisto  
Mary Tileston MacHarg  
\* Kathleen Ann McCaughna  
Selden Howard Novotny  
\* Shirley Kath Rivard  
\* Lewis Charles Rudolph  
Robert Schirrmacher  
Natalie Bortak Wickham

Social Science  
Richard Sylvester Allen  
Sandra Louise Austin  
H\* Thomas Arthur Bentley  
Wesley C. Cielma  
Louis Timothy Cooper  
Vernal Tom E. Cooper  
Brian Meyers Dausman  
James Warren Dewey  
Pamela Ann Ehlinger  
David Glen Fitch  
Michael Carl Johnson  
Harry Charles Kegley  
David Kenneth Kilbury  
Todd Harlan Kixmoeller  
Linda Pauline LaVasseur  
David Paul Leonardson  
Stephen Heywood Marsden  
Michael Simon Mayer  
Jerry Lee McMullen  
Linda Susan Melville  
Judith Clair Munch  
David Vaughn Najarian  
Daniel Peter Nemmers  
Terry Lee Netzloff  
Frank Joseph Orlos  
Kathryn Elizabeth Raymor  
Claude Downer Renshaw, Jr.  
Judith Gail Rogers  
\* Lawrence Sheldon Rudner  
Robert Keith Russell, Jr.  
\* Nancy Carol Schoewe  
Robert Allen Solomon

Daniel Christopher Spencer  
Pamela Delaine Steele  
John Matthew Szal  
Wayne Nobuyuki Tanigawa  
Thomas Lester Troyer  
David Bruce Usher  
Joseph Michael Weiss  
Charles Russell Wendland  
Donald Lambert Winters  
Paul John Yarmoluk

Social Work  
Susan Ann Brown  
\* Judith Guerriero Burandt  
Marjorie Ann Clayton  
Marta Anne Elliott  
Nancy Ann Goodall  
James Edwin Goodman  
Ardis A. Green  
Dorothy Ann Lehr  
Lanette Kay Maniscalco  
Suzanne Mary Materka  
Lucynda Jane Medd  
Christine Nannette Mitchell  
Patricia Lee Munro  
Susan Carol Strachan  
Elginia Sherry Taylor  
Anne Victoria Creeden  
Washburn

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

Social Science  
Carol Louise Basler  
Carlton Thomas Boutwell  
Robert Lawrence Hahn  
\* William Turner Johnston  
James Bruce Kanaga  
Constance Irene Norton  
Mary Alice Peggs  
\* Thomas Allen Vander Wee  
Robert Stuart Vor Broker



# COLLEGE OF SOCIAL SCIENCE

## DEGREE OF BACHELOR OF SCIENCE

### Geography

Samuel Danforth Knox, Jr.  
Michael Clare Leydorf

### Landscape Architecture

William Walter Bohnhoff  
Kirk Nyles Harrington

### Police Administration and Public Safety

Gerald Edward Bammert  
Judith Lynn Billington  
David Edward Charter  
Victor Curtis Clore  
Arthur Louis Decker  
James Lundy Drolett  
\*Leonard Egan  
Michael Henry Eisenhauer  
Paul J. Fulton  
Charles Michael Gagliano  
Stuart Walter Gerow  
Richard Bruce Gerritsen  
William Herman Gray  
Carl Frederick Heublein  
Thomas Wilford Horton  
\*William Daniel Howe  
\*\*James LaRoy Hunter  
Harry James Jinkerson  
\*Adam G. Johnson  
Richard Harry Jury  
David Ronald Kennedy  
Lawrence Francis Lauer  
Craig Allen Leach  
Norman Thomas Lee  
Frederick Michael, IV  
Thomas Alan Pabst  
\*James Warren Penna  
James Michael Spenner  
James Harry Steggall

### Political Science

William Rudolph Lukens  
Thomas Clyde Simpson  
Robert J. Wilkis

### Psychology

Michael Conrad Angel

Stephen William Bennett

Gary Lawrence Brown  
Terry Irvin Clinard  
Robert Lee Crandall  
Robert James Croke  
Kathleen McSween DeSautel  
William Frederick Diggins

H\* Kenneth Falkenbach

H\* James Richard Forkner

Frederick John Kling  
\*Michael Alan LeButt  
Thomas Ervin Maveal  
Brenda Joyce Maxwell  
Charles Jay McDonald  
Sandra Carr Miller  
Dean Lawrence Nicolai  
John Lawrence O'Keefe

\*Karl Edward Pearson  
Andris Piebalgs

\*Herbert John Ranta  
Sheldon Michael Scharg  
Dennis A. Siltanen  
Charles Roger J. Smith  
Joan Glaza Smith  
James Robert Stegman  
Jeffrey Oliver Tucker  
Conrad Joseph Welsing, Jr.

H\* Janice A. Wheeler  
Frank John Winn

### Social Science

William Carl Antell  
William Ray Beck  
Bruce Robert Beebe  
Margaret Elyse Boone  
Patrick Jeffrey Boufford  
Terry Dale Brenner  
Phillip Jerome Coates  
Gregory Dale Cook  
Charles Wayland Crouch  
Howard W. English  
Bernard Alphonse Favret  
John Leslie Frederick  
Jeri Loraine Gardner  
George Thomas Ghazal  
Arthur Earl Goyeau  
Edward Stanford Harris  
James Earl Huckle

\*Robert Brant Lawhorn  
Lawrence Anthony Letwin  
Donald Bruce Littlefield  
Gregory Walter Martin  
Cherry Ann McGee  
John Dale McMeans, Jr.  
James Ward Nixon  
Ralph Gary Milton Osterhout

H\* Jon David Overholt  
Michael Lewis Popov  
William Joseph Roach, Jr.  
Gerald Frederick Rodzik  
George Sheppard Root  
Donna Jean Shiner  
James Alan Silberberger  
Robert Charles Spencer  
Donald Ford Stephens  
Frank August Stupak  
William John Turner  
\*Steve Virag, Jr.  
H\* Charlia Day von Buchwald  
John Charles Walton  
Robert Edward Wells  
Joseph Aldrich Williams

### Sociology

Barbara Jane Bartlett  
John Farrington Dean  
Charles John Kolb  
Don Robert Little  
\*Beth Janet Shapiro  
James Hynek Svec

### Urban Planning

James Phillip Fleischmann

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

### Social Science

\*\*David James Campbell  
Earl J. Granzow  
Jane Kay Loiselle  
Michael J. Matteson  
Thomas Anthony Monroe  
Nancy Metcalf Quinn



# JUSTIN S. MORRILL COLLEGE

D. GORDON ROHMAN, DEAN

DEGREE OF  
BACHELOR  
OF ARTS

\*Harvey David Levine  
\*Donna Marie Luzius

\*Karen Ingrid Meek  
Elaine Gerard Ryan

H\* \*Paula Jeanne Tillman  
Janice Ann Williams

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

James E. Carne  
Michael C. Leydorf

Paul D. Moerman  
Jon A. Phelps

James T. Schultz  
James A. Silberberger

## MILITARY SCIENCE

Adjutant General Corps  
John E. Pence

Artillery  
Thomas F. Skaar

David R. Kennedy  
Cole B. Tyrrell

Armor  
Robert C. Hinshon, Jr.  
David M. Hollenbeck  
\*Frank J. Orlos

Corps of Engineers  
\*Richard A. Sage  
Military Intelligence  
Terry I. Clinard

Signal Corps  
John D. DeGroot  
James A. Michner  
Robert K. Russell, Jr.  
Dirck G. Terwilliger

\* Distinguished Graduates