



COMMENCEMENT 1969  
MICHIGAN STATE UNIVERSITY

## THE COMMENCEMENT COMMITTEE

HERMAN L. KING, *Chairman*

LLOYD R. CHAMPION

EVERETT R. EMINO

HORACE C. KING

MADISON KUHN

JOHN G. LAETZ

GLENN PETERS  
*Student Representative*

GORDON A. SABINE

KERMIT H. SMITH

DOYLE TARWATER  
*Student Representative*

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Following the close of the 1969 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, 1970.





# COMMENCEMENT 1969

Saturday, December 6  
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 have long, pointed sleeves. Those worn by masters 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 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. Arts and letters can be recognized by the white, taken from the traditional white fur trimming of the Oxford and Cambridge Bachelor of Arts hoods. Red, long traditional of the church, indicates theology. The royal purple of the King's court signifies law. The green of medicinal herbs immediately identifies a medical degree. Philosophy is signified by the color of wisdom and truth, blue. Because through research untold wealth has been released to the world, science is identified by golden yellow. Oxford pink indicates music and russet brown, the color of dress worn by ancient English foresters, indicates forestry.

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

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

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

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

# ORDER OF CEREMONIES

## PROCESSIONAL

ENTRANCE AND MARCH OF PEERS FROM "IOLANTHE".....*Sullivan*  
Michigan State University Symphonic Band  
PROFESSOR HARRY BEGIAN, *Director*

AMERICA .....*Smith*  
The Band and Audience

## PRAYER

DR. HARRY H. KIMBER  
Chairman, Department of Religion, Michigan State University

## ADDRESS

KINGMAN BREWSTER, JR., LL.B., LL.D.  
President, Yale University

## OVERTURE

RUSSIAN CHRISTMAS MUSIC .....*Reed*

## CONFERRING OF DEGREES

WALTER ADAMS, Ph.D.  
Professor of Economics and Acting President

ALMA MATER.....*Traynor*

M.S.U., we love thy shadows	When from these scenes we wander
When twilight silence falls,	And twilight shadows fade,
Flushing deep and softly paling	Our memory still will linger
O'er ivy-covered halls.	Where light and shadows played.
Beneath the pines we'll gather	In the evening oft we'll gather
To give our faith so true,	And pledge our faith anew,
Sing our love for Alma Mater	Sing our love for Alma Mater
And thy praises, M.S.U.	And thy praises, M.S.U.

(The Band and Audience)

## PRAYER

DR. KIMBER

## RECESSIONAL

TRIUMPHAL MARCH FROM "AIDA".....*Verdi*

The escorts for the procession are members of Mortar Board, Tower Guard and Alpha Lambda Delta, honor societies for 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> .....	<i>Okemos</i>
THE HONORABLE STEPHEN S. NISBET .....	<i>Fremont</i>
THE HONORABLE FRANK HARTMAN .....	<i>Flint</i>
THE HONORABLE CLAIR WHITE .....	<i>Bay City</i>
THE HONORABLE FRANK MERRIMAN, <i>Vice Chairman</i> .....	<i>Deckerville</i>
THE HONORABLE KENNETH W. THOMPSON .....	<i>Lansing</i>
THE HONORABLE WARREN M. HUFF .....	<i>Plymouth</i>
THE HONORABLE BLANCHE MARTIN .....	<i>East Lansing</i>

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WALTER ADAMS, <i>Ex Officio, Acting President</i> .....	<i>East Lansing</i>
JACK BRESLIN, <i>Secretary</i> .....	<i>East Lansing</i>



# MICHIGAN STATE UNIVERSITY

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

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

Now in its 115th 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 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 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 recently at MSU by the establishment of the Justin S. Morrill College, which offers a limited enrollment liberal education program with an international emphasis. The concept was expanded by the establishment and opening of the James Madison College and the Lyman J. Briggs College. James Madison offers a curriculum for the study of public policy problems within the framework of the social sciences and related disciplines. Lyman Briggs makes available a liberal curriculum for students especially interested in science and mathematics.

# MICHIGAN STATE UNIVERSITY

(continued)

Today, nearly 41,000 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 85 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. Approximately 2,000 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 DEGREES

KINGMAN BREWSTER, JR.

Your distinguished career as a professor of law, legal scholar, and most recently as president of one of America's most prestigious universities has earned for you widespread recognition. During your terms of service with government agencies and on important federal commissions by appointment of two presidents of the United States, and as president of Yale University, you have given abundantly of your talents, energies, and counsel on questions of national and international import. Your publications on Antitrust and American Business Abroad and on the Law of International Transactions and Relations reveal the breadth of your intellectual concerns and accomplishments. As academic administrator, you have assumed an active and courageous leadership role in bridging the gap between ancient tradition and modern relevance in American academic life. Most notably, you have demonstrated an uncommon talent for understanding and articulating the beliefs and aspirations of this generation of American college students. Because of your many and significant contributions as scholar, as distinguished servant to our government, and as effective spokesman for higher education in America during this most critical period of its history, Michigan State University proudly confers upon you the degree of Doctor of Laws.

JOHN ARTHUR GARRATY

Teacher, biographer, historian, and humanist. As author and editor of more than twenty books and scores of articles in learned journals and popular magazines, you have made your mark among the most productive members of your profession. Your biographies of Henry Cabot Lodge, Woodrow Wilson, and George W. Perkins, as well as your analytical treatise on the Nature of Biography, have given you national renown among specialists in the field. In your capacity as President of the Society of American Historians, you have advanced and supported the writing of history as literature for the benefit not only of scholars, but a wider public of educated men and women. Your text, the American Nation, has become a standard of enlightenment and inspiration for literally hundreds of thousands of students of American history. Through your writings and your scintillating performance in the classroom, you have interpreted the American dream and made it relevant to the young people of our time. For these achievements and distinctions, and in recognition of your faithful service as our colleague at this institution, Michigan State University is pleased to grant you the degree of Doctor of Humane Letters.

JOHN HOPE FRANKLIN

You have achieved uncommon success as an author and educator. Your scholarly books on the ante-bellum South, the reconstruction period, and especially your pioneering work on the Negro's struggle from slavery to freedom have had a far-reaching impact on the study of American history and culture. Both as a writer and a teacher at Howard University, Brooklyn College, and the University of Chicago, you have demonstrated to your many students the virtues of meticulous scholarship and the uses of historical truth to bring meaning and value to our human condition. You have given freely of your time and energy to professional organizations and national educational endeavors, serving with distinction as president of the American Studies Association and chairman of the board of Foreign Scholarships. Your teaching assignments in England, Australia, and other lands have enabled you to interpret America to the world with wisdom, sensitivity, and candor. Because of your dedication to humane learning and because you have enriched our understanding of America's pluralistic heritage, Michigan State University is proud to confer upon you the degree of Doctor of Humane Letters.



# THE CANDIDATES FOR DEGREES

## 1969 CLASS ROSTER

This includes the names of candidates for degrees as of the close of the 1969 Fall term, as well as the names of the recipients of the Doctoral and Master degrees at the close of the 1969 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, 1969

PAUL ALBERT AIKIN, Ph.D.

B.A., M.A., Michigan State University.

Psychology. Major Professor: Norman Abeles, Professor

Thesis: The Effectiveness of a Behavior Oriented Therapy and an Insight Oriented Therapy on the Academic Achievement of "Educationally-Disadvantaged" Students.

YOSHIHIRO AKUTSU, Ph.D.

B.A., International Christian Institute; M. A., Christian University.

Communication. Major Professor: Hideya Kumata, Professor.

Thesis: Commitment, Self-Evaluation and Communication Activity in a Dissonant Situation: A Study of Foreign Students With English Language Deficiency.

ROBERT EDWARD ALBERTI, Ph.D.

B.S., California State Polytechnic College; M.A., Los Angeles State College.

Education. Major Professor: W. Harold Grant, Professor.

Thesis: The Impact on College Student Development of Short-Term, Informal Faculty-Student Small Group Interaction.

JAMES ANDERSON, Ph.D.

B.S., College of Wooster; M.A. Central Michigan University.

Education. Major Professor: Calhoun C. Collier, Professor.

Thesis: The Relationship of Teacher Belief Systems to Teacher and Pupil Factors Related to School Goals Cathexis.

LOWELL DEAN ANDERSON, Ph.D.

B.S., M.S., St. Cloud State College.

Education. Major Professor: George W. Ferns, Associate Professor.

Thesis: A Comparison of the Professional Attitudes of Active Industrial Education Teachers to Those Who Leave the Profession.

JOSEPH RAYMOND ASCROFT, Ph.D.

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

Communication. Major Professor: Everett M. Rogers, Professor.

Thesis: Modernization and Communication: Controlling Environmental Change.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- HENRY RICHMOND ASKEW, Ph.D. B.S., M.A., Michigan State University.  
Psychology. Major Professor: Stanley C. Ratner, Professor.  
Thesis: Effects of Stimulus Intensity and Intertrial Intervals on Habituation of the Head-shake Response in the Rat.
- DAVID CHARLES BAILEY, Ph.D. B.A., Western Michigan University; M.A., University of Notre Dame.  
History. Major Professor: Charles C. Cumberland, Professor.  
Thesis: The Cristero Rebellion and the Religious Conflict in Mexico, 1926-1929.
- ROGER ERVIN BAUER, Ph.D. B.A., Northern Illinois University.  
Education. Major Professor: William W. Farquhar, Professor.  
Thesis: The Effects of Cognitive Structuring on the Outcomes of Group Counseling.
- ALFRED BERNER, Ph.D. B.A., Roberts Wesleyan College; M.S., Michigan State University.  
Fisheries and Wildlife. Major Professor: Leslie W. Cysel, Professor.  
Thesis: Habitat Analysis and Management Considerations for Ruffed Grouse on a Multiple Use Area in Michigan.
- MICHAEL WESLEY BIRD, Ph.D. B.S., M.S., Michigan State University.  
Electrical Engineering. Major Professor: Richard C. Dubes, Associate Professor.  
Thesis: Asymptotic Convergence of Non-Linear, Continuous-Time Filters.
- JACK BRUCE BOHANNON, Ph.D. B.A., Southern Missionary College; M.A., Andrews University.  
Speech. Major Professor: Kenneth G. Hance, Professor.  
Thesis: Two-Way Telephone Evangelism: An Adaptation of Electronic Answering Services.
- STEPHEN BERT BONDY, Ph.D. B.A., M.A., Eastern New Mexico University.  
Education. Major Professor: Bill L. Kell, Professor.  
Thesis: Completed Psychotherapies: An Investigation of the Communication of Values, Therapeutic Outcome, and Selected Therapist Variables.
- ARTHUR FRANKLIN BORDEAUX, JR., Ph.D. B.S., M.S., North Carolina State University.  
Agricultural Economics. Major Professor: Dale E. Hathaway, Professor.  
Thesis: Resource Productivity and Returns in Apple and Tart Cherry Production on Michigan Fruit Farms.
- RONALD JAMES BORTON, Ph.D. B.S., The Ohio State University; M.S., Michigan State University.  
Food Science. Major Professor: Lyman J. Bratzler, Professor.  
Thesis: The Effects of Four Species of Bacteria on Some Properties of Porcine Muscle Proteins.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- GEORGE LORIS BRINKMAN, Ph.D. B.S., M.S., Washington State University.  
Agricultural Economics. Major Professor: Dale E. Hathaway, Professor.  
Thesis: Reconciling Proposed Public Investments in Agricultural Education, Infrastructure and Production in Nigeria, 1969-85.
- RICHARD WILEY BROWNLEE, Ph.D. A.B., University of Michigan; M.A., Michigan State University.  
Education. Major Professor: John H. Suehr, Associate Professor.  
Thesis: Communication Networks Among the Professional Staff of Michigan's State Department of Education.
- LARRY R. BRUCE, Ph.D. B.S., Indiana State University; M.Ed., Loyola University; M.A.T., Michigan State University.  
Education. Major Professor: Wayne Taylor, Professor.  
Thesis: A Determination of the Relationships Among SCIS Teachers' Personality Traits, Attitude Toward Teacher-Pupil Relationships, Understanding of Science Process Skills and Question Types.
- LAMAR EUGENE BULLOCK, Ph.D. B.S., M.A., Western Michigan University.  
Physics. Major Professor: Clarence D. Hause, Professor.  
Thesis: Simultaneous Analysis of the First Positive Band System of  $N_2$  in the Near Infrared Excited by a Hollow Cathode Discharge.
- ROBERT L. BURKE, Ph.D. B.A., North Texas State University; M.A., State University of Iowa.  
History. Major Professor: Warren I. Cohen, Associate Professor.  
Thesis: Franklin D. Roosevelt and the Far East: 1913-1941.
- CHARLES ROBERT BURSEY, Ph.D. B.A., Kalamazoo College; M.S., Michigan State University.  
Zoology. Major Professor: Ralph A. Pax, Associate Professor.  
Thesis: Morphological and Physiological Studies of the *Limulus* Polyphemus Hearts: Microscopic Anatomy of the Cardiac Ganglion and Role of the Cardioresulatory Nerves.
- ALEXANDER DUANE BUTHERUS, Ph.D. B.S., Andrews University.  
Chemistry. Major Professor: Harry A. Eick, Professor.  
Thesis: Lanthanide Oxycarbides: Phase and Equilibrium Studies.
- DONALD RALPH CAIN, Ph.D. B.S., Alabama Polytechnic Institute; M.S., University of Wisconsin.  
Speech. Major Professor: Sidney L. Berger, Associate Professor.  
Thesis: Wagner and Brecht as Major Theorists of Aesthetic Distance in the Theatre.
- CHARLES F. CARDINELL, Ph.D. B.A., University of Washington; M.Ed., University of Oregon.  
Education. Major Professor: Floyd G. Parker, Professor.  
Thesis: Relationship of Interaction of Selected Personality Characteristics of School Principal and Custodian With Sociological Variables to School Vandalism.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- DAVID ALLEN CAVINS, Ph.D.      B.A., DePauw University; M.S., Indiana University.  
Education. Major Professor: Norman R. Stewart, Associate Professor.  
Thesis: The Comparative Performance of Support Personnel With Systems Approach Instruction and Elementary School Counselors and Teachers.
- Poo CHOW, Ph.D.      B.S., Taiwan Provincial College of Agriculture; M.F., Louisiana State University.  
Forestry. Major Professor: Otto Suchsland, Associate Professor.  
Thesis: The Deflection of Composite Furniture Panels Under Constant Bending Stress.
- BRUCE ROBERT CHRISTIE, Ph.D.      B.V.Sc., Sydney University; M.S., Michigan State University.  
Pathology. Major Professor: Glenn L. Waxler, Professor.  
Thesis: The Pathogenesis of Colibacillary Diarrhea of the Newborn. An Electron Microscopic and Histochemical Study of the Disease in Neonatal Gnotobiotic Pigs.
- ANTHONY R. COLLINS, Ph.D.      B.A., University of Arizona; M.A., State University of Iowa.  
Comparative Literature. Major Professor: Lawrence E. Babb, Professor.  
Thesis: Paradise Lost as a Baroque Poem.
- OLIVER COSTICH, Ph.D.      B.S., Northern Illinois University; M.S., Michigan State University.  
Mathematics. Major Professor: Kyung W. Kwun, Professor.  
Thesis: Poincare Duality Spaces.
- JERRY BLICKMAN CRITTENDEN, Ph.D.      B.S., Eastern Michigan University; M.A., Michigan State University.  
Education. Major Professor: Clessen J. Martin, Professor.  
Thesis: An Empirical Investigation of the Behavioral Dimensions of Four Tests of Learning Disabilities.
- A. STEPHEN DAHMS, JR., Ph.D.      B.S., College of St. Thomas.  
Biochemistry. Major Professor: Richard L. Anderson, Associate Professor.  
Thesis: Metabolism of D-fucose and L-arabinose in a Pseudomonad.
- STEVEN JOHN DANISH, Ph.D.      A.B., Bucknell University; M.S., Springfield College.  
Education. Major Professor: Bob B. Winborn, Associate Professor.  
Thesis: The Influence of Leader Empathy (Affective Sensitivity), Participant Motivation to Change and Leader-Participant Relationship on Changes in Affective Sensitivity of T-Group Participants.
- NEIL GORDON DAVEY, Ph.D.      B.S., University of Melbourne; M.B.A., Michigan State University.  
Business Administration (Management). Major Professor: Harold H. Wein, Professor.  
Thesis: Influences on an External Consultant's Effectiveness in Assisting Organizational Change.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- ARTHUR DALE DAYTON, Ph.D. B.S., Berea College; M.S., Michigan State University.  
Dairy. Major Professor: Lon D. McGilliard, Professor.  
Thesis: The Effects of Inbreeding on Heritable Traits in a Herd of Jersey Cattle.
- CHARLES RICHARD DENTON, Ph.D. A.B., M.S., Kansas State University.  
History. Major Professor: Frederick D. Williams, Professor.  
Thesis: American Unitarians, 1830-1865: A Study of Religious Opinion on War, Slavery, and the Union.
- ADOLPH OTTO DiLORETO, Ph.D. A.B., A.M., Wayne State University.  
Education. Major Professor: Gregory A. Miller, Professor.  
Thesis: A Comparison of the Relative Effectiveness of Systematic Desensitization, Rational-Emotive and Client-Centered Group Psychotherapy in the Reduction of Interpersonal Anxiety in Introverts and Extroverts.
- W. ROBERT DOCKING, Ph.D. B.A., Eastern Michigan University; M.Ed., Wayne State University.  
Education. Major Professor: John H. Suehr, Associate Professor.  
Thesis: A Descriptive and Evaluative Study of a Secondary School Dropout Program.
- RICHARD BOWDITCH DOES, Ph.D. B.A., Rockford College; M.A., Michigan State University.  
Psychology. Major Professor: Arthur Seagull, Associate Professor.  
Thesis: A Process Analysis of Supervision in Psychotherapy/Counseling Training: On the Dimensions of Interpersonal Perception, Conflict Confrontation, and Levels of Supervisor Offered Conditions.
- DAVID THOMAS DREES, Ph.D. D.V.M., Iowa State University; M.S., Michigan State University.  
Pathology. Major Professor: Glenn L. Waxler, Professor.  
Thesis: Enteric Colibacillosis in Gnotobiotic Swine: Fluorescence and Electron Microscopic Studies.
- DOROTHY E. DREYER, Ph.D. B.S., M.A., Kent State University.  
Audiology and Speech Science. Major Professor: Herbert J. Oyer, Professor.  
Thesis: Listening Performance Related to Selected Academic and Psychological Measures.
- LEO DWORKIN, Ph.D. A.B., M.Ed., Wayne State University.  
Education. Major Professor: Charles A. Blackman, Professor.  
Thesis: A Systems Theory Approach Toward the Reconceptualization of Curriculum.
- KHOSROW EBTEHADY, Ph.D. B.Sc., Birmingham University, England.  
Geology. Major Professor: Aureal T. Cross, Professor.  
Thesis: Palynology of the Subsurface Frio Formation in Liberty and Chambers Counties, Texas.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

ALEXANDER EMODI, Ph.D.

B.S., University of Agrarian Science; M.S., Michigan State University. Food Science. Major Professor: Richard V. Lechowich, Associate Professor.

Thesis: Chromatographic Purification and Molecular Dimensions of Type E *Clostridium botulinum* Toxin.

DAVID LLOYD ERB, Ph.D.

B.A., Wheaton College; M.A., Michigan State University. Education. Major Professor: John E. Jordan, Professor.

Thesis: Racial Attitudes and Empathy: A Guttman Facet Theory Examination of Their Relationships and Determinants.

CHARLES DRESSLER ERTLE, Ph.D.

B.A., M.A., Michigan State University.

Speech. Major Professor: James C. McCroskey, Assistant Professor.

Thesis: A Study of the Effect of Homogeneous Grouping on Systematic Desensitization for the Reduction of Interpersonal Communicative Apprehension.

HANS RUDOLF FANKHAUSER, Ph.D.

Diploma, Swiss Federal Institute of Technology.

Physics. Major Professor: Frank J. Blatt, Professor.

Thesis: Part I. Effect of Phonon and Electron-Electron Induced Interband Transitions on the Thermopower of the Transition Metals.

Part II. Lattice Dynamics of Crystals With Molecular Impurity Centers.

WILHELMINA JOVEN FERNANDEZ, Ph.D.

B.S., University of the Philippines; M.S., Eastern Illinois University. Education. Major Professor: Max R. Raines, Professor.

Thesis: A Case Study of Administrative Policies in a Philippine Private College.

RICHARD C. FORCIER, Ph.D.

B.S.E., State College; M.Ed., University of Massachusetts.

Education. Major Professor: Carl L. Midjaas, Assistant Professor.

Thesis: A Pilot Study Concerned with the Design of an Educational Belief Inventory Instrument.

JAMES EDGAR FOY, Ph.D.

A.B., M.A., University of Alabama.

Education. Major Professor: William Harold Grant, Professor.

Thesis: Career Patterns of Student Personnel Administrators.

ROLAND GERALD FRANK, Ed.D.

B.S., M.A., Ed.S., Central Michigan University.

Education. Major Professor: Louis Romano, Associate Professor.

Thesis: An Analysis of the Communications Patterns of Selected Elementary Principals in Michigan.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

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| MARTIN SHELTON FREDERIXON, Ph.D. | B.S., Purdue University; M.B.A., Michigan State University.<br>Business Administration (Marketing). Major Professor: Adolph E. Grunewald, Professor.<br>Thesis: An Investigation of the Product Life Cycle Concept and Its Application to New Product Proposal Evaluation Within the Chemical Industry. |
| RICHARD LANHAM FREMON, Ph.D.     | B.A., Columbia College; M.S., Michigan State University.<br>Mathematics. Major Professor: Kyung W. Kwun, Professor.<br>Thesis: Finite Cyclic Group Actions on $S^1 \times S^n$ .  |
| DONALD OWEN FRIES, Ph.D.         | B.A., M.A., University of Michigan.<br>History. Major Professor: Marjorie E. Gesner, Associate Professor.<br>Thesis: William Roy: A Study in Early Sixteenth-Century Protestant-Lollard Relationships.  |
| DAVID EMANUEL GALEWSKI, Ph.D.    | B.S., M.S., Michigan State University.<br>Mathematics. Major Professor: Patrick H. Doyle, Professor.<br>Thesis: The Essential P. L. Character of Certain Compact Sets in Topological Manifolds.   |
| DAVID ALLAN GILBART, Ph.D.       | B.S., Ontario Agricultural College; M.S., Michigan State University.<br>Horticulture. Major Professor: Kenneth C. Sink, Associate Professor.<br>Thesis: Physiological Studies of Bract Keeping Quality in Poinsettia.   |
| ROY FRANKLIN GILBERT, Ph.D.      | B.A., M.A., Michigan State University.<br>Economics. Major Professor: Thomas R. Saving, Professor.<br>Thesis: The Demand for Money: An Analysis of Specification Error.   |
| PETER LEE GILLETT, Ph.D.         | B.A., B.S., The Ohio State University; M.B.A., Washington State University.<br>Business Administration (Marketing). Major Professor: Bernard J. La Londe, Professor.<br>Thesis: An Analysis of Demographic, Socioeconomic and Attitudinal Characteristics of the Urban In-Home Shopper.                 |
| CHARLES WILLIAM GIVEN, Ph.D.     | B.S., M.S., The Ohio State University<br>Sociology. Major Professor: Philip M. Marcus, Associate Professor.<br>Thesis: Integration and Conflict in Educational Organizations: An Examination of Secondary School Systems.   |
| OTIS WEBSTER GODFREY, Ph.D.      | B.A., Syracuse University; M.S., Michigan State University.<br>Microbiology and Public Health. Major Professor: Delbert E. Schoenhard, Professor.<br>Thesis: Chromosome Transfer in Salmonella Pullorum Mediated by F-Prime Factors Carrying Salmonella Genes.  |



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- DANIEL LAWRENCE GOLDSMITH, Ed.D.      B.S., M.A., Michigan State University.  
Education. Major Professor: Troy L. Stearns, Professor.  
Thesis: An Investigation of the Health Practices of Fourth and Sixth Grade Elementary Children in the Public Schools of Hillsdale County, Michigan.
- WALTER STEPHEN GOOD, Ph.D.      B.Sc.F., University of Toronto; M.S., Michigan State University.  
Forestry. Major Professor: Otto Suchsland, Associate Professor.  
Thesis: Consumer Life Styles and Their Relationship to Market Behavior Regarding Household Furniture.
- DUANE WESLEY GREENE, Ph.D.      B.A., Colgate University; M.S., Michigan State University.  
Horticulture. Major Professor: Martin J. Bukovac, Professor.  
Thesis: Factors Influencing the Foliar Penetration of Naphthalene-acetic Acid and Naphthaleneacetamide Into Leaves of Pear (*Pyrus Communis* L.)
- PERRY KEITH GREGG, Ed.D.      B.A., University of Montana; Ed.M., Washington State University.  
Education. Major Professor: David C. Smith, Associate Professor.  
Thesis: A Case Study of the Public School Collective Negotiations Process Designed for the Use of Administrators-In-Training.
- MAX GILBERT GRUENDL, Ph.D.      B.S., University of Dayton; M.S., Michigan State University.  
Mathematics. Major Professor: Joseph Adney, Professor.  
Thesis: A Permutation Representation of the Automorphisms of a Group.
- BARRY JOSEPH GUINAGH, Ph.D.      B.A., Eastern Illinois University; M.A., Michigan State University.  
Education. Major Professor: Lee S. Shulman, Professor.  
Thesis: An Experimental Study of Basic Learning Ability and Intelligence in Low Socioeconomic Populations.
- JERRY LEE HAMELINK, Ph.D.      B.S., Michigan State University.  
Fisheries and Wildlife. Major Professor: Robert C. Ball, Professor.  
Thesis: The Dynamics of DDT in the Lentic Environment.
- RICHARD JOHN HAMERSMA, Ph.D.      A.B., Calvin College; M.A., Michigan State University.  
Education. Major Professor: John E. Jordan, Professor.  
Thesis: Construction of an Attitude Behavior Scale of Negroes and Whites Toward Each Other Using Guttman Facet Design and Analysis.
- JAMES FRANKLIN HAMPTON, Ph.D.      B.S., Nebraska State Teachers College.  
Chemistry. Major Professor: Robert N. Hammer, Associate Professor.  
Thesis: The Chemistry and Kinetics of Silylchromate Formation.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- STANLEY THOMAS HARDY Ph.D. B.S., Purdue University; M.B.A., University of Akron.  
Business Administration (Management). Major Professor: John H. Hoagland, Professor.  
Thesis: Vertical and Horizontal Structures in the Copper Industry.
- RAGAA ABDEL-RASSOUL HASSAN, Ph.D. B.S., Alexandria University; M.S., Cairo University.  
Agricultural Economics. Major Professor: Harold M. Riley, Professor.  
Thesis: An Analysis of the Demand for Food in Egypt.
- DAVID ROGER HAWKINS, Ph.D. B.S., M.S., The Ohio State University.  
Animal Husbandry. Major Professor: Hugh E. Henderson, Professor.  
Thesis: The Effect of Dry Matter Levels of Alfalfa Silage on Intake and Metabolism in the Ruminant.
- THOMAS HOLLINGER HENRIKSEN, Ph.D. B.A., Virginia Military Institute; M.A., Michigan State University.  
History. Major Professor: Donald Lammers, Associate Professor.  
Thesis: The British Press and Italian Fascism, 1922-1932.
- JOHN HAROLD HERR, Ph.D. B.S., Western Michigan University; M.A., University of California.  
Theatre. Major Professor: Elwin C. Reynolds, Professor.  
Thesis: Thomas Wignell and the Chestnut Street Theatre.
- PAUL DALE HOEKSEMA, Ph.D. A.B., Calvin College; M.S., Michigan State University.  
Education. Major Professor: John M. Mason, Professor.  
Thesis: Audio-tutorial Biology in Lyman Briggs College at Michigan State University.
- JAMES DAVID HOESCHELE, Ph.D. B.S., Franklin and Marshall College.  
Chemistry. Major Professor: Carl H. Brubaker, Professor.  
Thesis: The Photochemical Acceleration of the Uranium (IV)-Uranium (VI) Electron Exchange Reaction.
- ALAN JOHN HOFFMAN, Ph.D. B.S., M.S., Wisconsin State University.  
Education. Major Professor: William W. Joyce, Associate Professor.  
Thesis: Application of Social Science Structural Generalizations as a Function of Previous Social Science Coursework.
- JAMES IRVIE HOFFMAN, III, Ph.D. B.S., Allegheny College; M.S., Michigan State University.  
Geology. Major Professor: Robert Ehrlich, Assistant Professor.  
Thesis: The Nature of Calcium-Organic Complexes in Natural Solutions and Its Implications on Mineral Equilibria.
- BRUCE WILLIAM HOZESKI, Ph.D. B.A., Aquinas College; M.A., Michigan State University.  
English. Major Professor: Arnold Williams, Professor.  
Thesis: Ordo Virtutum: Hildegard of Bingen's Liturgical Morality Play.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- JACK LEROY HRUSKA, Ph.D. B.A., Michigan State University; M.A., Colorado State College. Education. Major Professor: Marvin E. Grandstaff, Assistant Professor. Thesis: An Analysis of Paul Goodman's Conception of the Nature of Man as a Perspective on His Educational Proposals: A Study in the Philosophical Foundations of Radical Educational Thought.
- JOSHUA SHELTON HULL, III, Ph.D. B.A., M.A., Seton Hall University. Education. Major Professor: Gregory A. Miller, Professor. Thesis: An Investigation of Identification of Male College Students With Their Fathers as a Variable Influencing Vocational Interests and Vocational Counseling.
- JACKSON RICHARD HUNTLEY, Ph.D. B.S., Wisconsin State University; M.A., Kent State University. Speech. Major Professor: James C. McCroskey, Assistant Professor. Thesis: An Investigation of the Relationships Between Personality and Types of Instructor Criticism in the Beginning Speech-Communication Course.
- ROBERT LEE JENNINGS, Ph.D. B.M.Ed., Augustana College; M.A., Western Michigan University. Music. Major Professor: Robert G. Sidnell, Associate Professor. Thesis: A Study of the Historical Development of Choral Ensembles at Selected Lutheran Liberal Arts Colleges in the United States.
- JORGE VICTOR JIMÉNEZ, Ph.D. D.D.S., Universidad de Costa Rica; M.S., Michigan State University. Zoology. Major Professor: Rollin H. Baker, Professor. Thesis: Comparative Post-Natal Growth in Cotton Rats (Genus *Sigmodon*).
- MERLYN LLOYD JONES, Ph.D. B.S., Wisconsin State University; M.S., University of Wisconsin. Crop Science. Major Professor: Fred C. Elliott, Professor. Thesis: Evaluation of Alfalfa Plants for Saponins.
- ARTHUR DAVID KATSER, Ed.D. B.S., M.Ed., Wayne State University. Education. Major Professor: Charles F. Schuller, Professor. Thesis: Activities and Attitudes of Instructional Media Building Coordinators: A Follow-Up to Two M.S.U. Summer Institutes.
- JONATHAN DAVID KAZSUK, Ph.D. B.S., Central Michigan University; M.A., Michigan State University. Psychology. Major Professor: S. Howard Bartley, Professor. Thesis: Some Effects of Limited Pulse Trains on Critical Fusion Frequency for Pigeon and Human Subjects.
- SUN CHUN KIM, Ph.D. B.Engr., Yonsei University; M.S., University of Georgia. Food Science. Major Professor: Laurence G. Harmon, Professor. Thesis: Relationship Between Some Insecticides and Lactic Culture Organisms in Milk.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- GORDON LAIDLAW KIRKLAND, JR., Ph.D.      B.S., Cornell University; M.S., Michigan State University.  
Zoology. Major Professor: George J. Wallace, Professor.  
Thesis: Avian Utilization of Small Woodlots in Southeastern Michigan.
- THOMAS ALBERT KLAASEN, Ph.D.      A.B., Hope College; M.A., Indiana University.  
Economics. Major Professor: John R. Moroney, Associate Professor.  
Thesis: Alternative Models of Regional Comparative Advantage in the United States.
- ISAAC KLEIN, Ph.D.      B.S., Hebrew University; M.S., Michigan State University.  
Horticulture. Major Professor: David R. Dilley, Professor.  
Thesis: Malic Enzyme in Pome Fruits; Some Properties and Relation to Fruit Ripening.
- FRANKLIN ALBERT KNUTSON, Ph.D.      B.A., Atlantic Union College; M.A., Andrews University.  
Speech. Major Professor: Kenneth G. Hance, Professor.  
Thesis: A Survey of Religious Radio Broadcasting in St. John's, Newfoundland.
- DUANE ELMER KOCH, Ph.D.      B.S., University of Wisconsin; M.S., Michigan State University.  
Food Science. Major Professor: Robert A. Markel, Professor.  
Thesis: The Relationship of Some Biochemical and Physiological Factors to Postmortem Changes in Porcine Muscle.
- GEORGE WILLIAM KRIEGER, Ph.D.      B.A., City College of New York; M.A., University of Illinois.  
Education. Major Professor: Gregory A. Miller, Professor.  
Thesis: An Exploratory Study of the Effect of Model-Reinforcement Counseling on the Vocational Behavior of a Group of Male Retarded Adolescents.
- JUDITH LEE KUIPERS, Ph.D.      B.S., Michigan State University; M.A., Central Michigan University.  
Education. Major Professor: Jean M. LePere, Professor.  
Thesis: The Differential Effects of Three Parent Education Programs on the Achievement of Their Children Enrolled in an Experimental Head Start Program.
- NORBERT ANTHONY KUNTZ, Ph.D.      B.A., St. Joseph's College; M.A., John Carroll University.  
History. Major Professor: Frederick D. Williams, Professor.  
Thesis: The Electoral Commission of 1877.
- WILLIAM RONALD LANDIS, Ph.D.      A.B., Miami University; M.S., Michigan State University.  
Botany and Plant Pathology. Major Professor: John H. Hart, Assistant Professor.  
Thesis: Changes in *Ulmus Americana* in Response to Infection by *Ceratocystis Ulmi*.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- JOHN NELSON LARUE, Ph.D.      B.S., Alma College; M.S., Michigan State University.  
Biochemistry. Major Professor: John C. Speck, Jr., Professor.  
Thesis: The Preparation and Amino Acid Sequence of Crystalline Turkey Egg White Lysozyme.
- LAURENCE VINCENT LAUTH, Ph.D.      M.A., Fordham University.  
Education. Major Professor: Van C. Johnson, Professor.  
Thesis: An Investigation of Selected Factors Which Contribute to Its Prolongation of Doctoral Programs at Michigan State University.
- LOWELL VINCENT LECLAIR, Ph.D.      B.A., M.A., University of Michigan.  
Education. Major Professor: Floyd G. Parker, Professor.  
Thesis: A Study of the Relationship of Three Factors Perceived Need Deficiency, Importance of Need Fulfillment, Perception of Education as a Mobility Facilitator to Participation in Educational Activities.
- BRUCE CARL LEIBRECHT, Ph.D.      B.A., Eastern Washington State College; M.A., Michigan State University.  
Psychology. Major Professor: Stanley C. Ratner, Professor.  
Thesis: Dishabituation of the Head-shake Response in the Rat.
- CLYDE EDWARD LETARTE, Ed.D.      A.B., Hope College; M.A., Michigan State University.  
Education. Major Professor: James E. Heald, Professor.  
Thesis: A Comparative Study of Selected Federal Programs and the Funds Received by Urban and Rural School Districts.
- LAWRENCE WILLIAM LEZOTTE, Ph.D.      B.S., M.A., Western Michigan University.  
Education. Major Professor: William W. Farquhar, Professor.  
Thesis: The Relationship Between Cognitive Styles, Scholastic Ability and the Learning of Structured and Unstructured Materials.
- EDWARD GRANT LITTLE, Ph.D.      A.B., Hiram College; M.A., University of Michigan.  
Comparative Literature. Major Professor: John A. Yunk, Professor.  
Thesis: Epic Moderation: Structure, Narrative Texture, and Purpose in Heroic Literature.
- WILLIAM FREDERICK LONG, Ph.D.      B.S., William Jewell College; M.S., Michigan State University.  
Physics. Major Professor: Julius S. Kovacs, Professor.  
Thesis: Chiral Dynamics Calculations of Single Pion Production in Pion-Nucleon Inelastic Scattering.
- MICHAEL JAMES LOUPE, Ph.D.      B.A., M.A., Michigan State University.  
Education. Major Professor: Lee S. Shulman, Professor.  
Thesis: The Training of Problem-Solving and Inquiry.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- WILLIAM ANTHONY LOVETT, Ph.D.** B.A., Wabash College; L.L.B., New York University; M.A., Harvard. Economics. Major Professor: Robert F. Lanzillotti, Professor.  
Thesis: Patents and Headstarts: A Study of the Polyolefin Plastics.
- PHYLLIS ELIZABETH LUECK, Ph.D.** B.S., Tufts University; M.S., Iowa State University. Education. Major Professor: Lee S. Shulman, Professor.  
Thesis: The Form-Color Preferences of 2½-, 3½-, and 4½-Year-Olds.
- RICHARD ALLAN MARGOLES, Ph.D.** B.S., University of North Carolina; A.B., M.Ed., University of Miami. Education. Major Professor: Charles F. Schuller, Professor.  
Thesis: A Study of Media Use, Attitudes, and Barriers as Measurements for Evaluating the Influence of Extra-Media Support Service for Faculty Teaching in Large Classrooms.
- ABDELHAY ABDELHAY MARIE, Ph.D.** M.B.A., Michigan State University. Business Administration (Accounting). Major Professor: Herbert E. Miller, Professor.  
Thesis: A Critical Study of Asset Valuation and Income Determination Under the New Uniform UAR (Egypt) Accounting System Relative to the Objectives of Economic Planning.
- JOHN DANCER MASON, Ph.D.** B.A., Kalamazoo College. Economics. Major Professor: Jack Stieber, Professor.  
Thesis: The Aftermath of the Bracero: A Study of the Economic Impact on the Agricultural Hired Labor Market of Michigan from the Termination of Public Law 78.
- JOHN HENRY MATHEWS, Ph.D.** B.S., Portland State College; M.A., Michigan State University. Mathematics. Major Professor: Peter A. Lappan, Professor.  
Thesis: Normal Light Interior Functions Defined in the Unit Disk.
- WILLIAM WARD MAUTZ, Ph.D.** B.S., Wisconsin State University; M.S., Michigan State University. Fisheries and Wildlife. Major Professor: George A. Petrides, Professor.  
Thesis: Investigation of Some Digestive Parameters of the White-Tailed Deer Using the Radioisotope<sup>51</sup> chromium.
- HORACE PIERCE MAXCY, JR., Ph.D.** B.S., Farmington State College; M.A., Michigan State University. Education. Major Professor: Carl L. Midjaas, Assistant Professor.  
Thesis: Dimensions of the Educational Planning Process: A Study of Educational Planning Processes in Selected Michigan School Districts.
- WALTER WILLIAM MCCARLEY, Ph.D.** B.S., M.S., Oklahoma State University. Education. Major Professor: Guy E. Timmons, Professor.  
Thesis: An Experimental Study to Evaluate the Effectiveness of an Individualized Instructional Method and the Lecture-Discussion Method for Teaching Vocational Agriculture Classes.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- JOHN CHARLES MCCOLLISTER, Ph.D.      B.A., Capital University; B.D., Evangelical Lutheran Theological College.  
Speech. Major Professor: Kenneth G. Hance, Professor.  
Thesis: A Study of the Theories of Homiletics of the American Lutheran Church.
- FLOYD LEE MCKINNEY, Ph.D.      B.S., M.Ed., University of Missouri.  
Education. Major Professor: Raymond A. Garner, Associate Professor.  
Thesis: Citizens Perceptions and Professional Educators Expectations Regarding the Vocational Citizens Advisory Committee.
- WILLIAM JAN MCKINNEY, Ph.D.      B.A., Knox College.  
Chemistry. Major Professor: Alexander I. Popov, Professor.  
Thesis: Spectroscopic Studies of Complex Compounds in Nonaqueous Solvents.
- DAN PYLE MILLAR, Ph.D.      B.A., Wabash College; M.A., Northwestern University.  
Speech. Major Professor: William B. Lashbrook, Assistant Professor.  
Thesis: An Exploratory Study of the Effect of Varying Modes of Positive Reinforcement on Student Animation in the Beginning Speech Class.
- JOE A. MILLER, Ph.D.      A.B., Butler University; B.D., Christian Theological Seminary; M.A., Butler University.  
Sociology. Major Professor: Philip M. Marcus, Associate Professor.  
Thesis: Organization Size and Administration in National Labor Unions: A Comparative Analysis.
- DALLICE IVAN MILLS, Ph.D.      B.S., Wisconsin State University; M.S., Syracuse University.  
Botany and Plant Pathology. Major Professor: Albert H. Ellingboe, Associate Professor.  
Thesis: The Induction of Recessive Suppressor Mutations and Somatic Recombination in the Common-AB Diploid of *Schizophyllum commune*.
- LEONARD LOUIS MITCHELL, Ph.D.      B.S., Ferris State College; M.A., Eastern Michigan University.  
Education. Major Professor: Samuel A. Moore, II, Associate Professor.  
Thesis: The Expressed Perceptions and Expectations of Selected Prospective Secondary School Teachers as They View the Leader Behavior of the Secondary School Principal.
- THOMAS CHARLES MOON, Ph.D.      B.A., Kalamazoo College; M.A.T., Oberlin College.  
Education. Major Professor: Wayne Taylor, Professor.  
Thesis: A Study of Verbal Behavior Patterns in Primary Grade Classrooms During Science Activities.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

BENSON SCOTT MUNGER, Ph.D.

B.A., Michigan State University.  
Education. Major Professor: David C. Smith, Associate Professor.  
Thesis: A Study of the Relationship Between Selected Variables and the Attitudes of Michigan Principals Toward Organizing for Negotiations.

TRACY W. MURRAY, Ph.D.

B.A., Washington State University; M.A., Michigan State University.  
Economics. Major Professor: Jan Kmenta, Professor.  
Thesis: Data Errors and Economics Parameter Estimation: A Case Study of International Trade Data.

THOMAS SCOTT NAGEL, Ph.D.

B.S., University of Idaho.  
Education. Major Professor: Norman T. Bell, Associate Professor.  
Thesis: A Descriptive Study of Cognitive and Affective Variables Associated With Achievement in a Computer-Assisted Instruction Learning Situation.

CHRIS VASISHT NARAYAN, Ph.D.

B.S., M.S., University of Guelph.  
Agricultural Engineering. Major Professor: Bill A. Stout, Professor.  
Thesis: Mechanical Checking of Navy Beans.

LARRY RAY NYHOFF, Ph.D.

B.A., Calvin College; M.S., University of Michigan.  
Mathematics. Major Professor: W. Eugene Deskins, Professor.  
Thesis: The Influence on a Finite Group of the Cofactors and Subfactors of Its Subgroups.

ALLAN OATEN, Ph.D.

B.A., Melbourne University; M.S., Michigan State University.  
Statistics. Major Professor: James F. Hannan, Professor.  
Thesis: Approximation to Bayes Risk in Compound Decision Problems.

JOHN ARTHUR OMAN, Ph.D.

B.A., MacMurray College; M.A., Michigan State University.  
Mathematics. Major Professor: Leroy M. Kelly, Professor.  
Thesis: Characterizations of Inner Product Spaces.

DANIEL JOHN O'NEILL, Ph.D.

B.A., Wayne State University; M.A., Bowling Green University.  
Speech. Major Professor: Gordon L. Thomas, Professor.  
Thesis: A Critical Analysis of the UAW Constitutional Convention Speeches of Walter Philip Reuther.

ALFRED ESIMATEMI OPUBOR, Ph.D.

B.A., University of London; M.A., University of California.  
Communication. Major Professor: Erwin P. Bettinghaus, Professor.  
Thesis: "Vocal" Communication: The Effects of Rate (Speed) and Intensity (Loudness) on Response to Spoken Messages.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- JAMES EDWARD PARKER, Ph.D. M.P.A., University of Texas.  
Business Administration (Accounting). Major Professor: George C. Mead, Associate Professor.  
Thesis: A Study of the Predictive Significance of Several Income Measures Relative to the Accounting for Extraordinary Items and Prior Period Adjustments.
- GEORGE LYLE PARROTT, Ph.D. A.B., Chico State College; M.A., Michigan State University.  
Psychology. Major Professor: Donald M. Johnson, Professor.  
Thesis: The Effects of Instructions, Transfer, and Content on Reasoning Time.
- KENNETH JOHN PAYNE, Ph.D. B.S., College of St. Thomas.  
Biochemistry. Major Professor: John A. Boezi, Associate Professor.  
Thesis: The Purification and Characterization of ATP: RNA Adenylyl-transferase from *Pseudomonas Putida*.
- ROY ESTON PETERSON, Ph.D. B.S., Northern Michigan University; M.A., Eastern Michigan University.  
Education. Major Professor: Samuel A. Moore, II, Associate Professor.  
Thesis: Anthropometric, Physiometric and Health History Comparisons of High and Low Academic Achievement Motivated Early Adolescent Boys.
- RICHARD MALCOLM PIPER, Ph.D. B.D., Berkeley Baptist Divinity School; B.A., Pepperdine College; M.A., Michigan State University.  
Education. Major Professor: Lee S. Shulman, Professor.  
Thesis: The Training of Openness and Its Effects on Inquiry.
- M. RANDALL RATHJEN, Ph.D. B.S., M.A., University of Utah.  
Geography. Major Professor: Daniel Jacobson, Professor.  
Thesis: Evolution and Development of the Mormon Welfare Farms.
- LOIS A. REDMOND, Ph.D. B.S., University of Minnesota; M.A., Eastern Michigan University.  
Education. Major Professor: Charles A. Blackman, Professor.  
Thesis: A Comparison of Teachers' Perceptions of Curriculum Development in Selected Districts With and Without Curriculum Councils.
- KENNETH WARREN RHOADS, Ph.D. B.A., University of Michigan; M.A., Michigan State University.  
English. Major Professor: Sam S. Baskett, Professor.  
Thesis: The Musical Elements of T.S. Eliot's *Four Quartets*.
- D. PAUL RILLEMA, Ph.D. B.S., Hope College.  
Chemistry. Major Professor: Carl H. Brubaker, Professor.  
Thesis: The Preparation and Properties of Some d<sup>1</sup> Molybdenum and Tungsten Compounds.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- FRANK ROCCO, Ph.D. B.S., Clarion State College; M.Ed., Boston College.  
Education. Major Professor: James E. Keller, Professor.  
Thesis: The Effect of Added Pause Time Upon the Comprehensibility of Compressed Speech.
- KENNETH LEROY ROWE, Ph.D. B.A., M.A., State College of Iowa.  
Education. Major Professor: Peter G. Haines, Professor.  
Thesis: Development of Selected Marketing Competencies Through Utilization of Two Methods of Teaching in the Secondary School.
- EDWIN W. RUBEL, Ph.D. B.S., M.A., Michigan State University.  
Psychology. Major Professor: John I. Johnson, Associate Professor.  
Thesis: A Comparison of Somatotopic Organization in Sensory Axo-cortex of Newborn Kittens and Adult Cats.
- MICHAEL THOMAS RUTTER, Ph.D. B.A., Calvin College; M.A., University of Michigan.  
Education. Major Professor: Fred J. Vescolani, Professor.  
Thesis: Educaid, A Rationale and a Model for Granting Financial Aid to the Nonpublic School Students in Michigan.
- JAMES THOMAS RYAN, Ph.D. B.C.E., Villanova University; M.A., Augustinian College.  
Education: Major Professor: William H. Grant, Professor.  
Thesis: A Biographical and Attitudinal Study of the Class of 1972 of Villanova University.
- VIRGINIA L. SAPICO, Ph.D. B.S., Holy Ghost College.  
Biochemistry. Major Professor: Richard L. Anderson, Associate Professor.  
Thesis: Properties and Functions of Three Bacterial Kinases.  
Part I. A Hexokinase Specific for D-Mannose and D-Fructose From *Leuconostoc Mesenteroides*.  
Part II. 1-Phosphofructokinase and 6-Phosphofructokinase From *Aerobacter aerogenes*.
- SHYAMALENDU SARKAR, Ph.D. B.S., M.S., Ranchi Agricultural College.  
Agricultural Economics. Major Professor: Glenn L. Johnson, Professor.  
Thesis: The Copper Country Medical Industry of Michigan as It Serves Rural People.
- CHARLES A. SHOUP, Ph.D. B.S., M.S., Cornell University.  
Education. Major Professor: Eldon R. Nonnamaker, Professor.  
Thesis: A Study of Faculty Collective Bargaining in Michigan Community Colleges.
- DIANE MARIE SILVERT, Ph.D. B.A., University of California; M.A., Michigan State University.  
Psychology. Major Professor: Lucy R. Ferguson, Professor.  
Thesis: Cortical Arousal in Russian Paranoid Schizophrenics as a Function of a Word Association Task.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- RONALD STEPHEN SLESINSKI, Ph.D.      B.S., Michigan State University.  
Botany and Plant Pathology. Major Professor: Albert H. Ellingboe, Associate Professor.  
Thesis: Genetic Control of Primary Interactions During Infection of Wheat by *Erysiphe graminis* f. sp. *tritici*.
- CHARLES FRANK SMITH, JR., Ed.D.      B.S., Bowling Green State University; Ed.M., Kent State University; C.A.S., Harvard University.  
Education. Major Professor: Donald J. Leu, Professor.  
Thesis: A Study of the Attitudes of Teachers in Title I and Non-Title I Depressed Area Elementary Schools Toward Pupil-Teacher Relations as Measured by the Minnesota Teacher Attitude Inventory.
- DAVID MARTIN SMITH, Ph.D.      B.S., Nyack Missionary College; M.A., Hartford Seminary Foundation.  
Anthropology. Major Professor: Alfred B. Hudson, Assistant Professor.  
Thesis: The Kapsiki Language.
- HAROLD STANLEY SOMMERSCHIELD, Ph.D.      B.A., University of Michigan; M.A., Michigan State University; B.D., Northern Baptists Theological Seminary.  
Psychology. Major Professor: Joseph Reyher, Professor.  
Thesis: Posthypnotic Conflict, Repression and Psychopathology.
- RUSSELL MELVIN SPANGLER, Ph.D.      B.Th., Canadian Union College; B.D., M.A., Andrews University.  
Speech. Major Professor: Kenneth G. Hance, Professor.  
Thesis: A Rhetorical Study of the Preaching of Pastor David Wilkerson.
- PAUL STEPHEN SPECE, Ph.D.      M.B.A., University of Detroit.  
Business Administration (Accounting). Major Professor: Charles J. Gaa, Professor.  
Thesis: The Impact of Computers on Federal Income Taxation.
- GLENN LESLIE STARNER, Ed.D.      B.S., Iowa State Teachers College; M.S., Drake University.  
Education. Major Professor: Walter F. Johnson, Professor.  
Thesis: A Study of Single Students Living in University Owned, On Campus Apartments at Central Michigan University.
- JOHN DAVID STOFFELS, Ph.D.      B.A., M.B.A., Northwestern University.  
Business Administration (Finance). Major Professor: Roland I. Robinson, Professor.  
Thesis: The Use of Margin Credit in the Trading of Securities.
- RICHARD BLAIN STRATTON, Ph.D.      B.S., M.S., Brigham Young.  
Electrical Engineering. Major Professor: Robert O. Barr, Jr., Associate Professor.  
Thesis: Computation of Optimal Controls for Nonlinear Systems Via Geometric Search.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- HARLEY HASTINGS THOMAS, III, Ph.D.      B.S., University of Missouri; M.S., Indiana University.  
Forestry. Major Professor: Eldon A. Behr, Professor.  
Thesis: A Marketing Study of Fine Wood Residue in Southern Lower Michigan.
- GARY GENE THOMPSON, Ph.D.      B.S., University of North Dakota.  
Geology. Major Professor: Aureal T. Cross, Professor.  
Thesis: Paleoecology of Palynomorphs in the Mancos Shale, Southwestern Colorado.
- RONALD JAY VANDERMOLLEN, Ph.D.      B.A., Calvin College; M.A., DePaul University.  
History. Major Professor: Marjorie E. Gesner, Associate Professor.  
Thesis: Richard Cox (1499-1581), Bishop of Ely: An Intellectual Biography of a Renaissance and Reformation Administrator.
- THEODORE GRANT VAN ISTENDAL, Ph.D.      B.A., Western Michigan University; M.A., M.Ed., University of Florida.  
Education. Major Professor: Max R. Raines, Professor.  
Thesis: A Study of Community College Institutional Research.
- JOHN WARREN VAUGHN, Ed.D.      B.S., M.A., Ball State University.  
Education. Major Professor: Jean M. LePere, Professor.  
Thesis: Implications of Physical and Intellectual Growth Characteristics, Interests, and Cultural Forces for Improvement of the Middle School Program.
- JOHN MOFFAT WALLACE, Ph.D.      B.S.A., M.S.A., Ontario Agricultural College.  
Communication. Major Professor: Hideya Kumata, Professor.  
Thesis: Factors Affecting Perceived Ability to Introduce Change Among Agency for International Development Trainees.
- JAMES WILLIAM WALTERS, Ph.D.      B.S., M.A., Michigan State University.  
Psychology. Major Professor: S. Howard Bartley, Professor.  
Thesis: An Investigation of Rod-cone Interaction as a Possible Mechanism for Explaining the Desaturation Found in Intermittent 510 NM Monochromatic Light.
- WALTER CHIA-MO WAN, Ph.D.      B.S., M.S., National Taiwan University.  
Physiology. Major Professor: E. Paul Reineke, Professor.  
Thesis: Comparative Studies of Thyroid Function.
- DAVID LEE WARDER, Ph.D.      B.S., University of Akron; M.S., Michigan State University.  
Civil Engineering. Major Professor: Orlando B. Andersland, Professor.  
Thesis: Behavior and Analysis of a Model Soil-Ice Barrier.
- DONALD CARL WATERSTREET, Ph.D.      B.S., M.S., Stout State College.  
Education. Major Professor: William W. Farquhar, Professor.  
Thesis: Effects Associated With Technical Summer Employment of Engineering Students.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

- THOMAS ROBERT WEBB, Ph.D.      B.A., M.B.A., Michigan State University.  
Business Administration (Marketing). Major Professor: Charles C. Slater, Professor.  
Thesis: Systems Model for Market Development Planning: Northeast Brazil.
- RICHARD A. WEISMILLER, Ph.D.      B.S., M.S., Purdue University.  
Soil Science. Major Professor: Max M. Mortland, Professor.  
Thesis: Effect of N-Ethylacetamide (NEA) Upon Some Physico-Chemical Properties of Montmorillonite and Vermiculite.
- JOHN RAYMOND WENBURG, Ph.D.      B.A., Nebraska State College; M.A., University of South Dakota.  
Speech. Major Professor: James C. McCroskey, Assistant Professor.  
Thesis: The Relationships Among Audience Adaptation, Source Credibility and Types of Message Cues.
- BRUCE ERICKSON WENZEL, Ph.D.      B.S., Tulane University.  
Chemistry. Major Professor: Max T. Rogers, Professor.  
Thesis: A Variable Temperature Nuclear Magnetic Double Resonance Study of Aqueous Alkylammonium Ions.
- ARTHUR THOMAS WHITE, II, Ph.D.      B.A., Oberlin College; M.S., Michigan State University.  
Mathematics. Major Professor: Edward A. Nordhaus, Professor.  
Thesis: The Genus of Cartesian Products of Graphs.
- GARY CHARLES WHITE, Ph.D.      B.M.E., B.M., M.M., University of Kansas.  
Music. Major Professor: Paul Harder, Professor.  
Thesis: Symphony.
- HARLAND WILLIAM WHITMORE, JR., Ph.D.      B.A., Lawrence College; M.B.A., Michigan State University.  
Economics. Major Professor: Jan Kmenta, Associate Professor.  
Thesis: Empirical Testing of the Friedman-Meiselman Hypothesis.
- HOWARD EDWIN WILDEY, Ph.D.      B.S., The Ohio State University; M.S., Michigan State University.  
Poultry Science. Major Professor: Theo H. Coleman, Professor.  
Thesis: The Laying House Performance of Chickens Brooded and Reared on Floors and in Cages.
- PETER LEE WILLSON, Ph.D.      B.S., Eastern Illinois University; M.S., Michigan State University.  
Physics. Major Professor: Thomas H. Edwards, Professor.  
Thesis: Electric Field Induced Spectra of Linear and Axially Symmetric Molecules.
- NORMAN EDWARD WINGARD, Ph.D.      B.S., Bowling Green State University; M.S., Michigan State University.  
Geology. Major Professor: James W. Trow, Professor.  
Thesis: Economic and Petrographic Evaluation of Gravel Resources in Southern Michigan.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1969 (Continued)

RAY WYATT WINTERS, Ph.D.

B.S., M.A., Michigan State University.  
Psychology. Major Professor: S. Howard Bartley, Professor.  
Thesis: Transient and Steady State Responses of Cat Optic Tract  
Fibers to Changes in Luminance and Size of Stimuli.

JOHN ALAN WINTERTON, Ph.D.

B.A., M.A., University of Colorado.  
Communication. Major Professor: Everett M. Rogers, Professor.  
Thesis: Paths Toward Modernization in Traditional Brazilian Com-  
munities.

MARTIN RANDOLPH WONG, Ph.D.

B.A., San Jose State College; M.A., Michigan State University.  
Education. Major Professor: Robert C. Craig, Professor.  
Thesis: Similarity and Prompting Effects in Retroactive Facilitation  
of Meaningful Learning.

JOHN LYNN WUEPPER, Ph.D.

B.A., Western Michigan University.  
Chemistry. Major Professor: Alexander I. Popov, Professor.  
Thesis: Spectroscopic Studies of Alkali and Ammonium Ion Solvation  
in Non-Aqueous Solvents.

DAVID BENNETT YOUST, Ph.D.

B.S., New York State College for Teachers; M.S., Syracuse University.  
Education. Major Professor: Richard G. Johnson, Assistant Professor.  
Thesis: Stimulating Vocational Exploratory Behavior Through Use of  
Life-Career Studies.

LI SHIN YUAN, Ph.D.

B.S., National Taiwan University; M.S., North Dakota State.  
Electrical Engineering. Major Professor: John B. Kreer, Professor.  
Thesis: Modern System Theory Applied to Urban Freeway Control.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### EDUCATIONAL SPECIALIST DEGREE — GRADUATED SUMMER TERM, 1969

SUSAN MARIE AIKENHEAD, Ed.S.	B.A., Lycoming College. Education. Major Professor: James W. Costar, Professor.
JAMES JOHN ALEXANDER, Ed.S.	B.S., Central Michigan University; M.A., Michigan State University. Education. Major Professor: Dale V. Alam, Associate Professor.
JOYCE ARLENE BAYLOR, Ed.S.	B.S., Oshkosh State College; M.A., Northern Michigan University. Education. Major Professor: Charles A. Blackman, Professor.
ROBERT WILLIAM BOECK, Ed.S.	B.A., Valparaiso University; M.A., Marquette University. Education. Major Professor: Peter G. Haines, Professor.
EDITH MCNEELY BUCKINGHAM, Ed.S.	B.E., Wisconsin State University; M.A., Michigan State University. Education. Major Professor: William K. Durr, Professor.
DAVID EDWARD COX, Ed.S.	B.A., M.A., Michigan State University. Education. Major Professor: Joyce W. William, Associate Professor.
JACQUELINE ANNE DEEB, Ed.S.	B.S., Aquinas College; M.A., Michigan State University. Education. Major Professor: Dale V. Alam, Associate Professor.
JAMES WALTER GOOD, Ed.S.	B.A., Northland College; M.A., Western Michigan University. Education. Major Professor: John H. Suehr, Associate Professor.
JOHN RUSSELL HIRSCHMANN, JR., Ed.S.	B.S., Memphis State University; M.A., Peabody College. Education. Major Professor: Robert O. Nolan, Associate Professor.
BENJAMIN J. KOEPKE, Ed.S.	B.A., Emmanuel Missionary College; M.A., Michigan State University. Education. Major Professor: Robert E. Gustafson, Assistant Professor.
HENRY MCSHAN, Ed.S.	B.S., Stillman College; M.A., Michigan State University. Education. Major Professor: Norman Kagan, Professor.
JANET MCCANN ROBINSON, Ed.S.	B.S., Bowling Green State University; M.A., University of Michigan. Education. Major Professor: Vivian M. Stevenson, Ed.S.
RICHARD CARL ROELOFS, Ed.S.	B.A., Western Michigan University; M.A., Michigan State University. Education. Major Professor: George R. Myers, Professor.
DONALD MORRISON WALLIS, Ed.S.	B.S., M.A., Michigan State University. Education. Major Professor: Herbert C. Rudman, Professor.

### DIPLOMA FOR ADVANCED GRADUATE STUDIES — GRADUATED SUMMER TERM, 1969

GARY LEE WISMER, D.A.G.S.	B.S., University of Detroit; M.S., Michigan State University. Physics. Major Professor: Peter Signell, Professor.
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## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969

- TINUOYE MICHAEL ADENIRAN, Ph.D. B.S., Xavier College; M.S., Michigan State University. Mathematics. Major Professor: Patrick H. Doyle, Professor. Thesis: Monotone Union Properties in Topological Spaces.
- HAROLD LEROY ALLEN, Ph.D. B.S., Redlands University; F. K., Uppsala University. Botany and Plant Pathology. Major Professor: Robert Wetzel, Associate Professor. Thesis: Primary Productivity, Chemo-organotrophy, and Nutritional Interactions of Epiphytic Algae and Bacteria on Macrophytes in the Littoral of a Lake.
- LILYAN MAE ALSPAUGH, Ph.D. B.A., University of Chicago; M.A., The Ohio State University. Speech. Major Professor: Kenneth G. Hance, Professor. Thesis: General Alfred M. Gruenther: Dedicated Spokesman for NATO.
- WILTON THOMAS ANDERSON, JR., Ph.D. B.A., M.B.A., Oklahoma State University. Business Administration (Marketing). Major Professor: Bernard J. La Londe, Professor. Thesis: An Analysis of the Correlates of Convenience-Oriented Consumer Behavior: With Special Emphasis on Selected Convenience Foods and Durable Goods.
- CHRISTOPHER OTIS ANDREW, Ph.D. B.S., Colorado State University; M.S., Michigan State University. Agricultural Economics. Major Professor: Laurence W. Witt, Professor. Thesis: Improving Performance of the Production-Distribution System for Potatoes in Colombia.
- CHARLES GARO ASHJIAN, Ph.D. B.S., St. Joseph's College; M.A., Pennsylvania State University. Arts and Letters, Interdisciplinary. Major Professor: John A. Yunck, Professor. Thesis: The Playwright as Priest: The Religious and Philosophical Significance of Dramatic Art.
- SATINDER KHURANA BAJAJ, Ph.D. B.S., M.S., Lady Irwin College. Nutrition. Major Professor: Olaf Mickelsen, Professor. Thesis: Biological Value of Pea Proteins as Influenced by Genetic Variation.
- STEVEN M. BARNES, Ph.D. B.A., Central College; M.A.T., Michigan State University. Education. Major Professor: John M. Mason, Professor. Thesis: The Reactions of Selected Elementary Teachers to the Training for and Implementation of the Science Curriculum Improvement Study in Selected Schools in Michigan.
- SUZANNE ELIZABETH BARNETT, Ph.D. B.A., University of Maryland; M.A., Columbia University; M.A., Smith College; Ph.D., Indiana University. Psychology. Major Professor: Bill L. Kell, Professor. Thesis: Anxiety and Negative Feeling: Children's Perceptions of Family Members.



# SCHOOL FOR ADVANCED GRADUATE STUDIES

## CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

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|---------------------------------|--|
| LESLIE ROHIT BARRAN, Ph.D.      | B.S., M.S., MacGill University.<br>Biochemistry. Major Professor: Willis A. Wood, Professor.<br>Thesis: An Investigation Into the Structure and Function of 2-Keto-3-Deoxy-6-Phosphogluconate Aldolase of <i>Pseudomonas Putida</i> Using 1, Fluoro, 2,4-Dinitrobenzene.   |
| DAVID WINFIELD BASH, JR., Ph.D. | B.A., DePauw University; M.A., Michigan State University.<br>Mathematics. Major Professor: Peter A. Lappan, Professor.<br>Thesis: Normalcy of Sums and Products of Normal Functions and Real and Complex Harmonic Normal Functions.  |
| DWIGHT BEECHER BEERY, Ph.D.     | B.A., Manchester College; M.S., University of Indiana.<br>Physics. Major Professor: William H. Kelly, Professor.<br>Thesis: Gamma Ray Spectroscopy Studies of the Excited States of Odd Proton (Odd Mass) Nuclei in the Z=50-62, N=64-82 Region.   |
| THOMAS EUGENE BELLAVANCE, Ph.D. | B.A., University of Connecticut; M.A., Northwestern University.<br>English. Major Professor: Russel B. Nye, Professor.<br>Thesis: The Periodical Prose of Henry Wadsworth Longfellow.  |
| JOHN DURAND BENSON, Ph.D.       | B.S., University of Delaware; M.S., Michigan State University.<br>Dairy and Institute of Nutrition. Major Professor: Roy S. Emery, Professor.<br>Thesis: Lipid Metabolism in Bovine Liver and Adipose Tissue.  |
| ROBERT DEANE BEREMAN, Ph.D.     | B.S., Butler University.<br>Chemistry. Major Professor: Carl H. Brubaker, Jr., Professor.<br>Thesis: Part I: The Preparation and Optical and Electron Spin Resonance Spectra of Some Hexachloro and Pentachloroalkoxo Vanadates(IV).<br>Part II: The Investigation of the Apparent Thermochromism of Some Vanadium(III) Complexes. |
| WALLACE GEORGE BERGER, Ph.D.    | A.A.S., State University of New York; B.S., M.A., Michigan State University.<br>Psychology. Major Professor: Henry C. Smith, Professor.<br>Thesis: Some Correlates of Attitude Change, Retention of the Attitude Message, and Evaluation of the Communicator.  |
| EDWARD E. BIRCH, Ph.D.          | B.S., State University of New York; M.A., Ohio University.<br>Education. Major Professor: Walter F. Johnson, Professor.<br>Thesis: An Investigation of Selected Assumptions and Beliefs of Chief Student Personnel Administrators.   |
| IDA BLACKSIN, Ph.D.             | B.S., L.L.M., M.A., New York University.<br>Comparative Literature. Major Professor: Russel B. Nye, Professor.<br>Thesis: Law and Literature: Dreiser and the Courts.  |

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- WAYNE MITCHELL BLEDSOE, Ph.D.      B.A., Tennessee Temple College; M.A., Michigan State University History. Major Professor: Richard E. Sullivan, Professor.  
Thesis: Problems in Medieval Historiography: A Selective Study.
- THELMA R. BOCA, Ph.D.      B.A., M.A., Michigan State University.  
Education. Major Professor: William K. Durr, Professor.  
Thesis: Characteristics of Prospective Teachers Related to Inner-City Teaching Preferences.
- MARTIN BOLT, Ph.D.      A.B., Calvin College; M.A., Michigan State University.  
Psychology. Major Professor: Gordon Wood, Assistant Professor.  
Thesis: Imagery in Associative Learning and Memory.
- RAYMOND LEE BOOZER, Ph.D.      B.A., Western Michigan University; M.A., University of Michigan.  
Education. Major Professor: Richard L. Featherstone, Professor.  
Thesis: A Study of the Voting Publics in Grand Rapids, Michigan, to Provide the Basis for Planning and Conducting Future Public School Operating Millage Elections in That District.
- ELLEN ANN RAISANEN BROWN, Ph.D.      B.S., Wisconsin State University; M.A., Bowling Green State University.  
English. Major Professor: Russel B. Nye, Professor.  
Thesis: The Uneasy Balance: A Study of Polarity in the Work of Stephen Crane.
- RICHARD ALLAN BROWN, Ph.D.      B.S., Illinois State Normal University; M.A., Michigan State University.  
Psychology. Major Professor: Dozier W. Thornton, Associate Professor.  
Thesis: The Effect of Alternating Social Approval Comments and Tangible Rewards on Task Performance of Kindergarten Children.
- ROBERT EDWARD BROWN, Ph.D.      B.S., M.S., Michigan State University.  
Fisheries and Wildlife. Major Professor: Gilbert W. Mauser, Professor.  
Thesis: Analysis of Attitude Changes in Adults After Participating in a Conservation-Oriented Biology Course.
- WILLIAM J. BRUIN, Ph.D.      B.S., Michigan State University.  
Biochemistry. Major Professor: N. Edward Tolbert, Professor.  
Thesis: An Examination of Glycolate Metabolism in Plants.
- GERALD HENRY BRUSEWITZ, Ph.D.      B.S.A.E., M.S.M.E., M.S.A.E., University of Wisconsin.  
Agricultural Engineering. Major Professor: Bill A. Stout, Professor.  
Thesis: Consideration of Plant Material As an Interacting Continuum.
- ROBERT WILLIAM BUND, Ph.D.      A.B., Middlebury College; M.S., Harvard University.  
Mechanics. Major Professor: Lawrence E. Malvern, Professor.  
Thesis: Earing in Cupping Experiments Related to Anisotropic Plasticity Theory.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- DAVID STEPHEN CANAVERA, Ph.D.      B.S., Michigan Technological University; M.S., Michigan State University.  
Forestry. Major Professor: Jonathan W. Wright, Professor.  
Thesis: Geographic and Stand Variation in Jack Pine (*Pinus banksiana* Lamb.).
- TERRENCE JOSEPH CAREY, Ph.D.      B.S., Central Michigan University; A.M., University of Michigan.  
Education. Major Professor: Edward B. Blackman, Professor.  
Thesis: Educational Patterns and Reactions of Michigan Public Community College Students Denied Admission to Michigan State University.
- LAURENCE ALAN CARR, Ph.D.      B.S., University of Michigan; M.S., Michigan State University.  
Pharmacology. Major Professor: Kenneth E. Moore, Associate Professor.  
Thesis: A Cerebroventricular Perfusion Technique for Studying Drug-induced Release of Brain Catecholamines.
- ROSS EDWARD CARTER, Ph.D.      B.A., San Jose State College; M.A., Michigan State University.  
Psychology. Major Professor: Albert I. Rabin, Professor.  
Thesis: Rorschach Signs, Thinking Disorganization, and Withdrawal in Process and Reactive Schizophrenics.
- MANGAL DASS CHAWLA, Ph.D.      B.A., L. K. College; B.S., Punjab Engineering College; M.S., University of Alberta.  
Mechanical Engineering. Major Professor: Merle C. Potter, Associate Professor.  
Thesis: The Stability of Boundary Layer Flow Subject to Rotation.
- CHAO-LING CHEN, Ph.D.      B.S., National Taiwan University; M.S., State University of Iowa.  
Physiology. Major Professor: Joseph Meites, Professor.  
Thesis: Effects of Hypothalamic Extract, Pituitary Hormones and Ovarian Hormones on Pituitary Prolactin Secretion.
- RAYMOND STRONG COLLADAY, Ph.D.      B.S., M.S., Michigan State University.  
Mechanical Engineering. Major Professor: James V. Beck, Associate Professor.  
Thesis: Inverse Problems Related to Transient Convection in the Thermal Entrance Region Between Parallel Plates.
- ROGER WOOLDRIDGE COON, Ph.D.      B.A., La Sierra College; M.A., Potomac University.  
Speech. Major Professor: Kenneth G. Hance, Professor.  
Thesis: The Public Speaking of Dr. William A. Fagal of "Faith for Today": America's First Television Pastor.
- JOHN J. CRAGUN, Ph.D.      B.S., Kansas State University; M.Ed., Colorado State University.  
Education. Major Professor: Raymond Garner, Associate Professor.  
Thesis: Preferred Pattern of Preparation for Teachers of Technical Agriculture at the Post-High School Level.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- NICHOLAS PAUL DARIO, Ph.D. BME, General Motors Institute; M.S., Case Institute of Technology. Mechanics. Major Professor: William A. Bradley, Professor.  
Thesis: A Comparison of Finite Element and Finite Difference Methods in Elastostatic Problems.
- PETER HOWARD DAUM, Ph.D. B.S., Drexel Institute of Technology. Chemistry. Major Professor: Christie G. Enke, Associate Professor.  
Thesis: Analysis and Application of Current Pulse Techniques in Electrochemical Kinetics.
- JAMES RICHARD DAVIS, Ph.D. A.B., Oberlin College; B.D., Yale University. Education. Major Professor: Edward B. Blackman, Professor.  
Thesis: An Examination of the Views of Senator Wayne Morse on Federal Aid to Higher Education.
- JOSEPH FRANCIS DOMINIC, Ph.D. B.A., M.A., Michigan State University. English. Major Professor: George R. Price, Professor.  
Thesis: The Troublesome Reign of King John: A Critical Edition.
- BRANT LEE DOTY, Ph.D. B.A., M.A., The Cincinnati Bible Seminary. English. Major Professor: Arnold Williams, Professor.  
Thesis: An Edition of British Museum Manuscript *Additional 37049*: A Religious Miscellany.
- NORRIS ALLEN EDNEY, Ph.D. B.S., Tougaloo College; M.S., Antioch College. Fisheries and Wildlife. Major Professor: Gilbert W. Mouser, Professor.  
Thesis: Studies of Infections of Fish by Certain Saprolegniaceous Fungi.
- RONALD KENNETH EDWARDS, Ph.D. B.S., Ferris State College; M.S., University of Tennessee. Education. Major Professor: Helen H. Green, Professor.  
Thesis: An Experimental Study in the Teaching of Business Machines Utilizing an Audio-Visual-Tutorial Laboratory Approach With Continuous-Loop Sound Films.
- SISTER MARIE THERESE EMERY, O.P., Ph.D. B.A., Siena Heights College; M.A., University of Detroit; M.A., Michigan State University. Education. Major Professor: Robert O. Nolan, Associate Professor.  
Thesis: A Study of Certain Factors Related to the Patterns of Driving, Accident and Violation Rates of 436, 17 and 18-Year-Old Licensed Drivers From Two Lansing Catholic Schools.
- HANI ISSA FAKHOURI, Ph.D. B.S., M.A., Wayne State University. Anthropology. Major Professor: Iwao Ishino, Professor.  
Thesis: Kafr El-Elow: An Egyptian Village in Transition.
- JOHN PATRICK FALLON, Ph.D. A.B., Fordham College; M.A., Columbia University. Education. Major Professor: Patricia J. Cianciolo, Professor.  
Thesis: A Comparison of Transescent Male Development in Two Organizational Patterns Centering on Middle School Grade Reorganization.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- ALFRED M. FALTHZIK, Ph.D. B.S., M.B.A., Northeastern University.  
Business Administration (Marketing). Major Professor: Bernard J. LaLonde, Professor.  
Thesis: Analysis of Selected Socio-Economic Variables and Their Effect on Consumer Temporal Behavior in Different Sized Shopping Areas.
- DANIEL REESE FARNELL, Ph.D. D.V.M., M.S., Auburn University.  
Pathology. Major Professor: Charles K. Whitehair, Professor.  
Thesis: Influence of Porcine Thyrocalcitonin in Magnesium Deficient and Normal Rats.
- DAVID JOHN FENOGLIO, Ph.D. B.S., University of Illinois.  
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.  
Thesis: Conformational Analysis of  $\alpha$ -Heteroatom Substituted Aldehydes by Nuclear Magnetic Resonance Spectroscopy.
- JAMES ALAN FETZER, Ph.D. B.S., M.A., Illinois State University.  
History. Major Professor: Warren I. Cohen, Associate Professor.  
Thesis: Congress and China, 1941-1950.
- THOMAS CHARLES FITCH, Ph.D. B.S., Central Michigan University; M.A., University of Michigan.  
Education. Major Professor: W. Robert Houston, Professor.  
Thesis: Role Expectations for Intern Consultants: Views of Intern Teachers and Intern Consultants in the Michigan State University Elementary Intern Program.
- JAMES WILLIAM FOLEY, Ph.D. B.A., University of Cincinnati; M.A., Miami University.  
Economics. Major Professor: John M. Hunter, Professor.  
Thesis: The Balance of Payments and Import Substituting Industrialization in Argentina 1945-61.
- ELIZABETH J. FORCE, Ph.D. B.A., M.A., Michigan State University.  
Psychology. Major Professor: John R. Hurley, Professor.  
Thesis: Personal Changes Attributed to Human Relations Training by Participants, Intimates and Job Colleagues.
- CHARLES CHRISTOPHER FORD, JR., Ph.D. B.S., Bridgewater State College; M.A., University of Hawaii.  
Education. Major Professor: Harry L. Case, Professor.  
Thesis: A Case Study of the Adaptational Patterns of Asian Graduate Students in Education at Michigan State University.
- RICHARD FRANCIS FOWLER, Ph.D. B.S., University of Rhode Island; M.S., University of Michigan.  
Forestry. Major Professor: Louis F. Wilson, Assistant Professor.  
Thesis: The White Grub in Upper Michigan and Northern Wisconsin 1-2 Year Old Red Pine Plantations.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- WILLIAM MEASEY FULKERSON, JR., Ph.D. B.A., William Jewell College.  
Speech. Major Professor: David Ralph, Professor.  
Thesis: A Rhetorical Study of the Appropriation Speaking of Clarence Andrew Cannon in the House of Representatives: 1923-1964.
- RICHARD COATE GEBHARDT, Ph.D. B.A., Heidelberg College; M.A., Michigan State University.  
English. Major Professor: Clyde E. Henson, Professor.  
Thesis: Denial and Affirmation of Values in the Fiction of Ernest Hemingway.
- RAM PARKASH GOEL, Ph.D. B.S., Punjab University; M.S., Michigan State University.  
Mechanics. Major Professor: Lawrence E. Malvern, Professor.  
Thesis: Plastic Wave Propagation With Combined Stresses.
- AUGUST GOLDEN, JR., Ph.D. B.S., M.S., Michigan State University.  
Electrical Engineering. Major Professor: Kun-Mu Chen, Professor.  
Thesis: Radiation From Dielectrically Coated Spherical Antennas.
- HASSAN GOLPARVAR, Ph.D. B.S., Teheran Polytechnic; M.S., Wayne State University.  
Civil Engineering. Major Professor: Gail C. Blomquist, Associate Professor.  
Thesis: Soil-Ice Properties of Frost-Susceptible Soils, Made Hydrophobic.
- BARRY D. GRAFF, Ph.D. B.A., University of Michigan; M.A., Michigan State University.  
Psychology. Major Professor: John R. Hurley, Professor.  
Thesis: Group Therapy and Individual Therapy: A Comparison.
- JACK GREENSTEIN, Ph.D. B.A., M.A., University of Michigan.  
Education. Major Professor: David C. Smith, Associate Professor.  
Thesis: A Comparison of Graduates of the Central Michigan University Teacher Intern Program With Graduates of the Central Michigan University Regular Teacher Preparation Program.
- MARGARET WHITEHURST GRIMES, Ph.D. A.B., University of North Carolina; M.A., Michigan State University.  
Comparative Literature. Major Professor: Arnold Williams, Professor.  
Thesis: Metamorphosis as a Literary Device.
- WILLARD LOUIS GROSS, Ph.D. B.S., Valparaiso University; M.S., Michigan State University.  
Fisheries and Wildlife. Major Professor: Eugene W. Roelofs, Professor.  
Thesis: Distribution and Elimination of Dieldrin by Green Sunfish (*Lepomis cyanellus* Rafinesque) Following Administration of a Single Oral Dose.
- SCOTT BATES GUTHERY, Ph.D. A.B., M.A., Miami University; M.S., Michigan State University.  
Statistics. Major Professor: John R. Kinney, Professor.  
Thesis: An Inversion Algorithm for One-Dimensional F-Expansions.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- WILLIAM ELLIOTT HALL, Ph.D. M.S., Oregon State University.  
Crop Science. Major Professor: Carter M. Harrison, Professor.  
Thesis: Crown and Tiller Formation in Wheat and Barley.
- THOMAS EARL HANSON, Ph.D. B.A., Southern Illinois University.  
Biochemistry. Major Professor: Richard L. Anderson, Associate Professor.  
Thesis: The Metabolism of D-Fructose in *Aerobacter aerogenes*.
- DONALD FRED HARDEN, Ph.D. B.A., M.A., Michigan State University.  
Education. Major Professor: Walter F. Johnson, Professor.  
Thesis: Selected Affective and Cognitive Characteristics of Students in the Lyman Briggs College and the College of Natural Science at Michigan State University.
- CHESLEY LEON HARGRAVE, Ph.D. B.S., Missouri State College; M.Ed., University of Missouri.  
Education. Major Professor: John H. Suehr, Associate Professor.  
Thesis: The Principal's Divergent Thinking Ability in Interpersonal Relationships: Its Relatedness to the Organizational Climate of Selected High Schools.
- ROBERT CHARLES HARRIS, Ph.D. B.A., M.A., Western Michigan University.  
History. Major Professor: Frederick D. Williams, Professor.  
Thesis: Austin Blair of Michigan: A Political Biography.
- DAVID ARTHUR HART, Ph.D. L.A., Northern Michigan University.  
Biochemistry. Major Professor: Paul K. Kindel, Assistant Professor.  
Thesis: Apiogalacturonans From the Cell Wall of *Lemna minor* L.
- GARY A. HEIDT, Ph.D. B.S., Manchester College; M.S., Michigan State University.  
Zoology. Major Professor: Rollin H. Baker, Professor.  
Thesis: Ontogeny of the Least Weasel (*Mustela nivalis* L.).
- GARY HOWARD HEINZ, Ph.D. B.S., Lehigh University; M.S., Michigan State University.  
Fisheries and Wildlife. Major Professor: Leslie W. Gysel, Professor.  
Thesis: Responses of Ring-Necked Pheasant Chicks to Conspecific Calls.
- ROBERT GORDON HELGESEN, Ph.D. B.A., University of Michigan; M.S., North Dakota State University.  
Entomology. Major Professor: Dean L. Haynes, Associate Professor.  
Thesis: The Within-Generation Population Dynamics of the Cereal Leaf Beetle, *Oulema melanopus* (L.).
- DONALD GARDNER HILL, Ph.D. B.S., Michigan State University.  
Geology. Major Professor: William J. Hinze, Professor.  
Thesis: A Laboratory Investigation of Conductivity and Dielectric Constant Tensors of Rocks.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- HSIU-HWANG HO, Ph.D. B.A., M.A., National Taiwan University.  
Philosophy. Major Professor: Gerald J. Massey, Professor.  
Thesis: Some Semantical Problems in Deontic Logic and Imperative Logic.
- RANDALL HERBERT HOEMKE, Ph.D. B.A., University of Detroit; M.A., Michigan State University.  
Economics. Major Professor: Robert F. Lanzillotti, Professor.  
Thesis: State Branch Banking Laws—Their Effect on Economic Activity.
- ERMON OWENS HOGAN, Ph.D. B.S., University of Minnesota; M.S., Atlanta University.  
Education. Major Professor: Troy L. Stearns, Professor.  
Thesis: The Influence of an In-Service Workshop Experience of Teachers' Ability to Positively Modify the Self-Concepts of Educationally and Economically Disadvantaged Students.
- A. THOMAS HOLLINGSWORTH, Ph.D. B.S., M.B.A., University of Delaware.  
Business Administration (Management). Major Professor: Dalton E. McFarland, Professor.  
Thesis: Relationships Between the Informal Organization and the Effectiveness of Formal Leaders.
- BUFORD REID HOLT, Ph.D. B.S., University of Tennessee.  
Botany and Plant Pathology. Major Professor: John E. Cantlon, Professor.  
Thesis: Effect of Immigration Time on the Establishment of Wild Carrot Populations in Early Old-Field Succession.
- JOAO CARLOS HOPP, Ph.D. B.E.S., Sao Paulo University; M.A., Michigan State University.  
Business Administration (Finance). Major Professor: Adolph E. Grunewald, Professor.  
Thesis: A Study of the Investment Policy and Performance of Subsidiaries of U.S. Manufacturing Corporations in Brazil.
- LELAND WRIGHT HOWE, Ph.D. B.A., M.A., Michigan State University.  
Education. Major Professor: Dale V. Alam, Associate Professor.  
Thesis: Toward a Humanistic Model of School Organization Development.
- DAN MYRON JOHNSON, Ph.D. B.S., Emory and Henry College; M.S., Michigan State University.  
Zoology. Major Professor: William E. Cooper, Associate Professor.  
Thesis: The Influence of Damselfly Naiad Predation on the Dynamics of Prey Populations.
- GEORGE SAMUEL JOHNSON, Ph.D. B.A., Augsburg College.  
Biochemistry. Major Professor: William C. Deal, Jr., Associate Professor.  
Thesis: Rabbit Muscle Pyruvate Kinase: Structural and Catalytic Studies.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- ANTHONY LAWRENCE KADLEC, Ph.D. B.A., Montana State University; M.F.A., University of Utah.  
Audiology and Speech Science. Major Professor: E. C. Reynolds, Professor.  
Thesis: A Descriptive Study of Scenic Styles in the Productions of Successful, Serious American Drama on the New York Stage of the 1920's.
- KAREN SUE KAMERSCHEN, Ph.D. B.A., M.A., Michigan State University.  
Psychology. Major Professor: Bill L. Kell, Professor.  
Thesis: Multiple Therapy: Variables Relating to Co-Therapist Satisfaction.
- ROBERT G. KEESEY, Ph.D. B.A., Kent State University; M.A., Michigan State University.  
English. Major Professor: Arthur Sherbo, Professor.  
Thesis: Arthur Murphy's Theatrical Criticism: A Critical Edition.
- THOMAS RANDOLPH KILIAN, Ph.D. B.A., Augustana College; M.S., Boston University.  
Education. Major Professor: Van C. Johnson, Professor.  
Thesis: Power Constructs in Higher Education.
- HERMAN CLARK KISSIAH, JR., Ph.D. A.B., Wheaton College; M.A., Michigan State University.  
Education. Major Professor: Edward B. Blackman, Professor.  
Thesis: The College Student in the American Novel: 1930-1939 and 1964-1967.
- ROGER ERWIN KLEIN, Ph.D. A.B., Bates College; M.A., Michigan State University.  
Economics. Major Professor: Thomas G. Moore, Professor.  
Thesis: The Personal Income Tax, Dividends, Capital Gains, and the Allocation of Capital.
- FRANK RICHARD KRAJEWSKI, Ph.D. B.A., Providence College; M.A., Michigan State University.  
Education. Major Professor: Frank H. Blackington, III, Professor.  
Thesis: A Study of the Relationship of an Overseas-Experienced Population Based on Sponsorship of Parent and Subsequent Academic Adjustment to College in the United States.
- DOELAS RANDY LANDES, Ph.D. B.S., M.S., University of Arkansas.  
Food Science. Major Professor: Lawrence E. Dawson, Professor.  
Thesis: Tenderness and Changes in pH and Protein Extractability of Turkey Breast Muscle Exhibiting Different Rates of Post-Mortem Glycolysis.
- TCHUOC WEI LEE, Ph.D. B.S., National Taiwan University; M.S., McGill University.  
Mechanics. Major Professor: David H. Y. Yen, Associate Professor.  
Thesis: Free Periodic Vibrations of Continuous Systems Governed by Coupled Nonlinear Partial Differential Equations.
- ARTHUR LIFSHIN, Ph.D. B.S., City College of New York.  
Geology. Major Professor: Harold B. Stonehouse, Associate Professor.  
Thesis: Element Migration Across Granitic Dikes.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- CHENG-CHI LIN, Ph.D. B.S., Cheng Kung University; M.S., Michigan State University. Electrical Engineering. Major Professor: Kun-Mu Chen, Professor. Thesis: Radiation of Spherical and Cylindrical Antennas in Incompressible and Compressible Plasmas.
- PETER CHARLES LIST, Ph.D. B.A., M.A., Michigan State University. Philosophy. Major Professor: Rhoda H. Kotzin, Associate Professor. Thesis: The Theory of Sense-Data in Twentieth-Century British Philosophy.
- ROBERT EARL MACDONALD, Ph.D. B.S., M.A., Central Michigan University. Education. Major Professor: George W. Ferree, Professor. Thesis: The Psychology of Abraham Maslow in Educational Perspective: Selected Criticisms and Applications.
- GERTRUDE CECILE MACFARLANE, Ph.D. B.M., University of Toronto; M.S., University of Kentucky. Sociology. Major Professor: J. Allan Beegle, Professor. Thesis: Certain Factors Affecting Mobility and the Relationship Between Spatial and Social Mobility of University Faculty, Particularly Scientists, Ontario, 1967-68.
- JOHN PAUL MAIERLE, Ph.D. B.A., M.S., University of Dayton. Education. Major Professor: John E. Jordan, Professor. Thesis: An Application of Guttman Facet Analysis to Attitude Scale Construction: A Methodological Study.
- PHILIP NEAL MARCUS, Ph.D. B.A., M.A., Michigan State University. Political Science. Major Professor: Baljit Singh, Associate Professor. Thesis: The Development of Systemic Concepts in Comparative Political Analysis: An Emerging Paradigm.
- MARY RAMONA MATTINGLY, Ph.D. B.A., University of Dayton; M.A., St. Louis University. Political Science. Major Professor: Harold J. Spaeth, Professor. Thesis: The Hughes Court 1931-1936: Psychological Dimensions of Decision Making.
- RAYMOND RICHARD MCGUIRE, Ph.D. B.S., Pennsylvania State University. Chemistry. Major Professor: Robert D. Schuetz, Professor. Thesis: The Photochemical Reactions of Heptachlor: Kinetics and Mechanisms.
- JAMES CHARLES MCKEOWN, Ph.D. B.A., Michigan State University. Business Administration (Accounting). Major Professor: Roland F. Salmonson, Professor. Thesis: An Application of a Current Market Value Accounting Model.
- BLAINE EDWARD MCKINLEY, Ph.D. A.B., Hope College; M.A., Michigan State University. History. Major Professor: Douglas T. Miller, Associate Professor. Thesis: "The Stranger in the Gates": Employer Reactions Toward Domestic Servants in America, 1825-1875.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- WILLIAM JOHN MEDVE, Ph.D.      B.S., M.Ed., Temple University.  
Education. Major Professor: Robert E. Gustafson, Assistant Professor.  
Thesis: A Driver Attitude Inventory Designed to Ascertain Topics  
Requiring Instructional Emphasis.
- HARVEY CHARLES MELLINGER, Ph.D.      B.A., Goshen College.  
Botany and Plant Pathology. Major Professor: William J. Hooker,  
Professor.  
Thesis: Pathogenesis of Sclerotinia Sclerotiorum (Lib.) de Bary on  
Potato.
- MARILYN MARIE MEYER, Ed.D.      B.S., University of Wisconsin; M.A., Syracuse University.  
Education. Major Professor: Norman R. Stewart, Associate Professor.  
Thesis: Patterns of Perceptions and Attitudes Toward Traditionally  
Masculine and Feminine Occupations Through Childhood and Adolescence.
- ROBERT LOUIS MEYER, Ph.D.      B.S., M.A., University of Missouri.  
Mathematics. Major Professor: Norman L. Hills, Associate Professor.  
Thesis: Bounds on the Discretization Error for the Numerical Solution  
of the Dirichlet Problem for Laplace's Equation.
- MICHAEL DAVID MILLER, Ph.D.      B.S., Pennsylvania State University; M.S., Michigan State University.  
Physics. Major Professor: Peter S. Signell, Professor.  
Thesis: Model Dependence of the Binding Energy of Nuclear Matter.
- LAWRENCE EDWARD MINTZ, Ph.D.      B.A., University of South Carolina; M.A., Michigan State University.  
English. Major Professor: Russel B. Nye, Professor.  
Thesis: Brother Jonathan's City Cousin: The Urban Wise Fool in  
Twentieth Century American Social and Political Satire.
- NEVIL LESLIE MOORE, Ph.D.      B.S., M.Ed., Ohio University.  
Education. Major Professor: Robert O. Nolan, Associate Professor.  
Thesis: A Study to Determine the Responsibilities, Training and Time  
Involvement of Traffic Safety Education Workers in Selected Michigan  
Schools.
- MOUNIR AZIZ MORCOS, Ph.D.      B.S., M.S., Cairo University; B.S., Michigan State University.  
Agricultural Engineering. Major Professor: Chester J. Mackson, Professor.  
Thesis: Relationship Between Fluid Flow in Cellulose and the Generated  
Electric Energy With Application to Water Movement in Plants.
- KENNETH NOAH MORIN, Ph.D.      B.S., Northern Michigan University; M.A., University of Kentucky.  
Education. Major Professor: John E. Jordan, Professor.  
Thesis: Attitudes of Texas Mexican-Americans Toward Mental Retardation:  
A Guttman Facet Analysis.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- JOHN ANDREW MULLEN, Ph.D. B.A., M.A., Michigan State University.  
Psychology. Major Professor: Norman Abeles, Professor.  
Thesis: An Investigation of the Variable of Liking in Therapy: Its Relation to the Variables of Outcome, Empathy, and Therapist Experience.
- GURRAMKONDA MUNASWAMY NAIDU, Ph.D. B.A., Sri Venkateswara University; M.S., Indiana Statistical Institute.  
Business Administration (Marketing). Major Professor: Richard J. Lewis, Professor.  
Thesis: Systems Approach to the Marketing Aspects of Higher Education.
- GEORGE GREGORY NAKOS, Ph.D. B.S., University of Thessaloniki; M.S., Michigan State University.  
Soil Science. Major Professor: Arthur R. Wolcott, Professor.  
Thesis: Cultural Studies and Effects of Pesticides in Nitrifying Systems.
- PATRICK OBI NGODDY, Ph.D. B.S., California State Polytechnic College; M.S., Michigan State University.  
Agricultural Engineering. Major Professor: Fred W. Bakker-Arkema, Associate Professor.  
Thesis: A Generalized Theory of Sorption Phenomena in Biological Materials.
- VINCENT ALVIN NICELY, Ph.D. B.S., West Virginia Wesleyan College.  
Chemistry. Major Professor: James L. Dye, Professor.  
Thesis: An ESR Study of Linewidths in Metal-Amine Solutions and an *AB INITIO* Investigation of the Lithium-Ammonia Interaction.
- JACK GALEN NICHOLS, Ph.D. B.S., M.A., University of Minnesota.  
Speech. Major Professor: James C. McCrosky, Professor.  
Thesis: An Investigation of the Effects of Varied Rates of Training on Systematic Desensitization for Interpersonal Communication Apprehension.
- JAMES RICHARD NORD, Ph.D. B.S., United States Naval Academy; M.A., Michigan State University.  
Education. Major Professor: Elwood E. Miller, Associate Professor.  
Thesis: An Exploratory Study Into the Criteria by Which Educational Objectives May Be Evaluated.
- JOHN THOMAS NORMAN, JR., Ph.D. B.S., Wake Forest College; M.A.T., Michigan State University.  
Education. Major Professor: Julian R. Brandou, Associate Professor.  
Thesis: An Investigation of the Suitability of Various Types of Biology Laboratory Designs for Certain Instructional Practices.
- JOHN ROBERT OSBORNE, Ph.D. B.S., M.A., Ball State University.  
Education. Major Professor: Charles A. Blackman, Professor.  
Thesis: A Model for the Development of Instructional Improvement Services at the Intermediate School District Level in Michigan.



# SCHOOL FOR ADVANCED GRADUATE STUDIES

## CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- ROBERT ALTON PADDOCK, Ph.D.      B.S., Washington and Lee University; M.S., Michigan State University.  
Physics. Major Professor: Walter Benenson, Associate Professor.  
Thesis: A Study of the Energy Levels of  $^{18}\text{Ne}$ ,  $^{22}\text{Mg}$ ,  $^{26}\text{Si}$ ,  $^{30}\text{S}$ ,  $^{34}\text{Ar}$ ,  
and  $^{38}\text{Ca}$  by the (p,t) Reaction.
- BARBARA DALLAS PALMER, Ph.D.      B.A., Chatham College; M.A., Michigan State University.  
English. Major Professors: Clyde E. Henson, Professor; Arnold Wil-  
liams, Professor.  
Thesis: The Guide and Leader: Studies in a Narrative Structural  
Motif.
- WAYNE DAVID PANYAN, Ph.D.      B.S., M.S., Wayne State University.  
Electrical Engineering. Major Professor: John B. Kreer, Professor.  
Thesis: Urban Traffic System Simulation and Control.
- JOYCE YOUNG PASSOS, Ph.D.      B.S., Simmons College; M.S., Boston University.  
Education. Major Professor: Troy L. Stearns, Professor.  
Thesis: A Method for Analyzing the Problem Identification Behavior  
of Basic Baccalaureate Nursing Students and Its Relationship to Stu-  
dent Preparation Strategies, Student Role Satisfaction and Faculty  
Role Satisfaction.
- WILMA L. PATTERSON, Ph. D.      B.A., William Jewell College; M.A., Northeast Missouri State Teachers  
College.  
Education. Major Professor: Bill L. Kell, Professor.  
Thesis: Imagery Characteristics as Related to Picture-Word Stimulus  
Variables and Presentation Rates in Paired-Associate Learning.
- HARRY ARCHIBALD PEARSON, Ph.D.      B.S., B.A., University of Western Australia.  
Education. Major Professor: Ted W. Ward, Professor.  
Thesis: Programmed Instruction for Groups of Teachers in Remote  
Locations: Prototype Development.
- LOUIS ALLEN PENNER, Ph.D.      B.A., M.A., Miami University.  
Psychology. Major Professor: Milton Rokeach, Professor.  
Thesis: The Functional Relationship Between Values and Interper-  
sonal Behavior.
- FRED HAROLD PEPPER, Ph.D.      B.S., M.S., Colorado State University.  
Food Science. Major Professor: Albert M. Pearson, Professor.  
Thesis: Composition of the Aqueous Extract of Beef Adipose Tissue.
- CERETA ELIZABETH PERRY, Ph.D.      B.S., Howard University; M.S., University of Wisconsin.  
Education. Major Professor: William W. Farquhar, Professor.  
Thesis: Client Internalizing and/or Client Externalizing Consistency  
or Change: Its Effect on Therapeutic Process and Outcome.
- RICHARD WAYNE PETERSON, Ph.D.      B.S., Wisconsin State University; M.S., Michigan State University.  
Physics. Major Professor: Thomas H. Edwards, Professor.  
Thesis: Determination of  $A_0$  for Deuterated Methyl Halides.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- PETER KIMON PETRO, Ph.D.      B.A., M.A., Iowa State Teachers College.  
Education. Major Professor: Peter G. Haines, Professor.  
Thesis: The Deviation of Learning Hierarchies and Instructional Objectives in Accounting With Implications for Developing Instructional Systems for Post-High School Programs.
- MICHAEL PETSCHER, JR., Ph.D.      B.A., Rutgers University.  
Chemistry. Major Professor: Harold Hart, Professor.  
Thesis: Part I: The Photorearrangement of 1,3,3,4,5,6-Hexamethylbicyclo [2.2.2]oct-5-ene-2,7- and -2,8-dione.  
Part II: The Synthesis and Low Temperature NMR Spectrum of 1,4-Diethyl-2,3,5,6,7,8-Hexamethylnaphthalene.
- PHILLIP JAMES PLAUGER, Ph.D.      A.B., Princeton University.  
Physics. Major Professor: Edwin Kashy, Professor.  
Thesis: Spectroscopy in the Titanium Isotopes Via (p,d) and (p,t) Reactions.
- JOHN VICTOR POLOMSKY, Ph.D.      B.S., M.A., Michigan State University.  
Education. Major Professor: Lawrence Borosage, Professor.  
Thesis: Evaluations by Students, Teachers, and Managers of the Benton Harbor-St. Joseph, Michigan Industrial Management Training Program.
- HOWARD KIRK PORTER, Ph.D.      B.S., Augustana College; M.A., Michigan State University.  
Psychology. Major Professor: Dozier W. Thornton, Associate Professor.  
Thesis: Prison Homosexuality: Locus of Control and Femininity.
- MICHAEL ROBERT POWELL, Ph.D.      B.S., M.S., Michigan State University.  
Biophysics. Major Professor: Barnett Rosenberg, Professor.  
Thesis: Electronic/Protonic Charge Carrier Ratios in Solvated Biomacromolecules.
- CHARLES RADANOVICS, Ph.D.      B.S., University of Budapest; M.S., University of California.  
Food Science. Major Professor: Charles M. Stine, Professor.  
Thesis: The Loss of Volatile Constituents and Storage Stability of Freeze-Dried Sour Cream.
- WILLIAM LEIGH RAISER, Ph.D.      B.A., Graceland College; M.A., Michigan State University.  
Sociology. Major Professor: J. Allan Beegle, Professor.  
Thesis: Metropolitan Growth and Socioeconomic Residential Segregation.
- PEEP PETER REBANE, Ph.D.      A.B., Upsala College; M.A., Michigan State University.  
History. Major Professor: Richard E. Sullivan, Professor.  
Thesis: Denmark and the Baltic Crusade, 1150-1227.

# SCHOOL FOR ADVANCED GRADUATE STUDIES

## CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- AUDREY LOUISE RENTZ, Ph.D. A.B., College of Mount St. Vincent; M.S., Pennsylvania State University.  
Education. Major Professor: Laurine E. Fitzgerald, Professor.  
Thesis: A Perceptual Study of the Sorority Image at Michigan State University.
- KHEE CHOON RHEE, Ph.D. B.S., M.S., Seoul National University.  
Food Science. Major Professor: J. Robert Brunner, Professor.  
Thesis: Isolation and Characterization of Lactal Immunoglobulins.
- MARY RUTH RHOADS, Ph.D. B.M., M.M., University of Michigan.  
Music. Major Professor: Paul O. Harder, Professor.  
Thesis: Influences of Japanese Hogaku Manifest in Selected Compositions by Peter Mennin and Benjamin Britten.
- WILLIAM E. ROPER, Ph.D. B.S., M.S., University of Wisconsin.  
Agricultural Engineering. Major Professor: Merle L. Esmay, Professor.  
Thesis: Heat and Moisture Transfer in the Avian Respiratory System.
- RICHARD CARROL ROSE, Ph.D. B.A., Augsburg College; M.S., Michigan State University.  
Physiology. Major Professor: William L. Frantz, Associate Professor.  
Thesis: Factors Affecting the Potential, Current and Resistance of the Pigeon Crop Membrane *In Vivo* and *In Vitro*.
- TIMOTHY LOWELL ROSS, Ph.D. B.S., M.B.A., Bowling Green State University.  
Business Administration (Accounting). Major Professor: Gardner M. Jones, Professor.  
Thesis: The Accountant's Role in Participative Decision-Making.
- SR. M. ROSARI MARY SAUNDERS, Ph.D. B.S., M.S., DePaul University.  
Education. Major Professor: Max R. Raines, Professor.  
Thesis: Perceptions of Members of the Health Team in Sectarian and Non-Sectarian Hospitals.
- MICHAEL BISHOP SCHERBA, Ph.D. B.S., Wayne State University; M.S., University of Michigan.  
Electrical Engineering. Major Professor: Gerald L. Park, Associate Professor.  
Thesis: Optimal Singular Control Theory With Application to Vehicular Braking.
- ROBERT MOREN SCHNEIDER, Ed.D. B.S., M.S., Kansas State University.  
Education. Major Professor: Guy E. Timmons, Professor.  
Thesis: Perceptions of the Role of the Agriculture Equipment Industry in the Agricultural Mechanization Education of Developing Countries.
- SHIRISHCHANDRA BHAGWANDAS SETH, Ph.D. B.Com., M.Com., University of Bombay; M.B.A., Texas Christian University.  
Business Administration (Accounting). Major Professor: Gardner M. Jones, Professor.  
Thesis: Costing Methods for Materials Processing in the Metals Service Center Industry.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- JOHN S. SHENK, Ph.D. B.S., Pennsylvania State University; M.S., Michigan State University. Crop Science. Major Professor: Fred C. Elliott, Professor.  
Thesis: Selection and Characterization of Digestibility Differences in Alfalfa by Chemical and Bioassay Procedures.
- ISAAC SHEPPARD, JR., Ph.D. B.S., Michigan State University; M.S., Purdue University. Agricultural Engineering. Major Professor: Merle L. Esmay, Professor.  
Thesis: An Analytical and Experimental Investigation of Contact Area Stress Distribution and Buckling Strength of Light Gauge Punched Metal Heel Plates for Timber Trusses.
- ROBERT GEORGE SHERMAN, Ph.D. B.S., Alma College; M.S., Michigan State University. Zoology. Major Professor: Ralph A. Pax, Associate Professor.  
Thesis: Electrophysiological and Pharmacological Studies of the Heart of the Tarantula *Eurypelma Marxi* Simon.
- DAULAT SINGH, Ph.D. B.S., M.S., Governmental Agricultural College; M.S., University of Guelph. Soil Science. Major Professor: Boyd G. Ellis, Professor.  
Thesis: Equilibrium Concentrations of Inorganic Phosphorus and Adsorbed Phosphorus in Soils.
- DAYA RAM SINGH, Ph.D. B.Com., M.Com., Banaras Hindu University. Business Administration (Finance). Major Professor: Adolph E. Grunewald, Professor.  
Thesis: Investment Policy and Performance of U.S. Subsidiaries in India.
- AARON SINKOFF, Ed.D. B.A., M.Ed., Wayne State University. Education. Major Professor: William A. Mann, Professor.  
Thesis: A Comparison of Two Cultural Groups Through the Use of the Mann Inventory.
- JAMES DUANE SLEE, Ph.D. B.A., Hope College; M.S., Michigan State University. Chemistry. Major Professor: Eugene LeGoff, Associate Professor.  
Thesis: Part I: Synthetic Approaches to 8b, 8c-Dimethylpyracyclene.  
Part II: A Study of Bis-Diels-Alder Adducts of Dimethyl Acetylenedicarboxylate and Certain Furans.
- MARTHA LUCILE SMITH, Ph.D. B.M., Western Michigan University; M.A., University of Michigan. Education. Major Professor: Charles A. Blackman, Professor.  
Thesis: A Study of Elementary Student Teacher Confidence in and Attitudes Toward Music and Changes That Occur in a Student Teaching Experience.
- JAN M. SMUCKER, Ph.D. B.A., Lawrence College; M.A., Michigan State University. Philosophy. Major Professor: Gerald J. Massey, Professor.  
Thesis: A Study of the Problem of Determining Ontological Commitments in Wittgenstein's *Tractatus*.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- GLENN GARDNER SNOW, Ph.D.      B.S., M.Ed., Brigham Young University.  
Education. Major Professor: Elwood E. Miller, Associate Professor.  
Thesis: An Analysis of the Doctoral Level Preparation Programs in  
the Field of Instructional Technology at Selected Institutions.
- ROLLIN DeMERS SPARROWE, Ph.D.      B.S., Humboldt State University; M.S., South Dakota State University.  
Fisheries and Wildlife. Major Professor: Leslie W. Gysel, Professor.  
Thesis: Prey-Catching Behavior in the American Kestrel (*Falco  
sparverius*).
- MORRIS S. SPIER, Ph.D.      B.A., City College of New York; M.A., Michigan State University.  
Psychology. Major Professor: Henry C. Smith, Professor.  
Thesis: Improving Interpersonal Sensitivity: An Evaluation of a  
Stereotype Accuracy Training Program.
- DORIAN GEORGE SPRANDEL, Ph.D.      B.A., Albion College; M.A., Michigan State University.  
Education. Major Professor: W. Harold Grant, Professor.  
Thesis: A College Student Subculture Study: An Examination of the  
Clark-Trow Subculture Typology at a Small Midwestern Private Non-  
sectarian Residential Four Year Liberal Arts College.
- NATALIE LORAIN SPROULL, Ph.D.      B.A., Michigan State University.  
Education. Major Professor: Robert C. Craig, Professor.  
Thesis: The Relationship of Research Preparation to Duration, Attri-  
tion and Research Communication of Doctoral Candidates in Educa-  
tion, Michigan State University.
- DARRYL LEONARD STEINERT, Ph.D.      B.S., Alma College; M.S., Michigan State University.  
Physics. Major Professor: Richard Schlegel, Professor.  
Thesis: An Evolution of Relativistic Thermodynamics.
- VICTOR LAWRENCE STINE, Ph.D.      B.S., Purdue University; M.S., Michigan State University.  
Education. Major Professor: Russel J. Kleis, Associate Professor.  
Thesis: An Analysis of Agri-Business Management Functions and  
Implications for Personnel Training.
- C. A. A. STORER, Ph.D.      B.A., University of Maine; M.A., Northwestern University.  
Speech. Major Professor: Kenneth G. Hance, Professor.  
Thesis: Elijah Kellogg: 19th Century New England Orthodox  
Preacher.
- DAVID STANTON TAYLOR, Ph.D.      B.S., Northern Illinois University; M.S., Southern Illinois University.  
Education. Major Professor: Edward B. Blackman, Professor.  
Thesis: A Study of Institutional Climate at Western Illinois University  
as Perceived by Selected Junior Class Students.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- CARL HENRY THOMAS, Ph.D. B.S., Clemson College; M.S., Louisiana State University. Agricultural Engineering. Major Professor: Fred W. Bakker-Arkema, Associate Professor.  
Thesis: Temperature Distributions and Effects of Heat Applied to Plant Stems.
- ALDEN MILLER TOWNSEND, Ph.D. B.S., The Pennsylvania State University; M.F., Yale University. Forestry. Major Professor: James W. Hanover, Associate Professor.  
Thesis: Physiological, Morphological, and Biochemical Variation in Western White Pine (*Pinus monticola* Dougl.) Seedlings From Different Altitudinal Seed Sources in Idaho.
- JOSEPH NEIL UHL, Ph.D. B.S., M.S., Michigan State University. Agricultural Economics. Major Professor: James D. Shaffer, Professor.  
Thesis: Market Organization, Vertical Coordination and Farm Price Stability in the Fresh Fruit and Vegetable Industry.
- PHILIP STEVEN ULINSKI, Ph.D. B.S., M.S., Michigan State University. Zoology. Major Professor: John I. Johnson, Professor.  
Thesis: Normal Development of the Cuneate-Gracile Nuclear Complex in Pouch Young Opossums.
- MARTEN VANDE GUCHTE, Ph.D. B.A., Calvin College; M.Ed., Wayne State University. Audiology and Speech Science. Major Professor: Herbert J. Oyer, Professor.  
Thesis: The Effect of Aural and Visual Cues on the Rating of the Speech of Foreign Students.
- PHILIP BRUCE VANDER VELDE, Ph.D. A.B., Calvin College; M.A., Michigan State University. Education. Major Professor: Frank H. Blackington, III, Professor.  
Thesis: A Philosophical Analysis of the Theoretical Assumptions of the Perceptual Psychology of Arthur Combs as It Relates to the Education of Teachers.
- FREDERICK JOHN WALSH, Ph.D. B.A., Michigan State University; A.M., University of Michigan. Education. Major Professor: Richard L. Featherstone, Professor.  
Thesis: A Study of the Expectations of Secondary School Principals, Significant Others, and School-Liaison Officers for the Role of School-Liaison Officer.
- SHYH JONG WANG, Ph.D. B.S., Chinese Naval College of Technology; M.S., National Chiao Tung University. Electrical Engineering. Major Professor: Edgar C. Tacker, Associate Professor.  
Thesis: A Gradient Computational Technique for a Class of Optimal Control Problems Subject to Inequality Constraints.
- JOE THOMAS WATERSON, Ph.D. B.S., M.S., Michigan State University; Ed.S., University of Michigan. Education. Major Professor: Charles A. Blackman, Professor.  
Thesis: An Evaluation of a Two-Day Sensitivity Training Laboratory for High School Students.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1969 (Continued)

- JAMES FRANKLIN WEAVER, Ph.D. B.A., North Texas State University; M.S., Syracuse University.  
Speech. Major Professor: Kenneth G. Hance, Professor.  
Thesis: The Effects of Verbal Cueing and Initial Ethos Upon Perceived Organization, Retention, Attitude Change, and Terminal Ethos.
- WILLIAM JOHN WEBSTER, Ph.D. B.A., Olivet College; M.A., University of Michigan.  
Education. Major Professor: James E. Heald, Professor.  
Thesis: The Applicability of Selected Ratio and Least-Squares Regression Analysis Techniques to the Prediction of Future Educational Attendance Patterns.
- B. BRADLEY WEST, JR., Ph.D. B.S., King's College; M.A., University of Notre Dame.  
Education. Major Professor: W. Henry Kennedy, Professor.  
Thesis: A Study of Computer Scored Group Holtzman Inkblot Variables as Related to Student Teaching Success, Major Teaching Fields, and Sex.
- JAMES LOHREN WIEK, Ph.D. B.A., M.B.A., University of Washington.  
Business Administration (Marketing). Major Professor: E. Jerome McCarthy, Professor.  
Thesis: An Analysis of the Relation of Vertical Integration and Selected Attitudes and Behavioral Relationships in Competing Channel Systems.
- WARREN W. WOOD, Ph.D. B.S., M.S., Michigan State University.  
Geology. Major Professor: Samuel B. Romberger, Associate Professor.  
Thesis: Geochemistry of Ground Water of the Saginaw Formation in the Upper Grand River Basin, Michigan.
- ROGER EARL WYSE, Ph.D. B.S., The Ohio State University; M.S., Michigan State University.  
Crop Science. Major Professor: Stephen T. Dexter, Professor.  
Thesis: Storage of Sugarbeets: Agronomic, Physiological and Quality Aspects.
- MARILYN MONTGOMERY YEARGERS, Ph.D. B.A., Louisiana State University; M.A., Michigan State University.  
Comparative Literature. Major Professor: Bernard J. Paris, Professor.  
Thesis: Poiësis: The Theme of Poetry-Making in the Poetry of Wallace Stevens and Paul Valéry.
- HOWARD HENRY ZUBICK, Ph.D. B.S., Emerson College; M.S., University of Wisconsin.  
Audiology and Speech Science. Major Professor: Herbert J. Oyer, Professor.  
Thesis: The Relationships Among Speech Reception Threshold, Auditory Discrimination, Speaker Intelligibility and the Total Number of Articulation Errors in a Geriatric Population.
- MARTIN EDWARD ZWEIG, Ph.D. B.S., University of Pennsylvania; M.B.A., University of Miami.  
Business Administration (Finance). Major Professor: Alden C. Olson, Associate Professor.  
Thesis: An Analysis of Risk and Return on Put and Call Option Strategies.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR EDUCATIONAL SPECIALIST DEGREES — FALL TERM, 1969

FREDERICK EUGENE BROWN, Ed.S.	B.S., Western Michigan University; M.A., Central Michigan University. Education. Major Professor: James E. Heald, Professor.
MERLE ROYSTON FRIESEN, Ed.S.	B.S., Michigan State University; M.S., Southern Illinois University. Education. Major Professor: Walter F. Johnson, Professor.
MARGARET J. JOHNSTONE, Ed.S.	B.A., Earlham College; M.A., Temple University. Education. Major Professor: James W. Costar, Professor.
ROBERT CHARLES SLOAN, Ed.S.	B.S., M.A., Michigan State University. Education. Major Professor: Fred J. Vescolani, Professor.
VIRGINIA MERLE SORENSON, Ed.S.	B.S., M.A., Western Michigan University. Education. Major Professor: Charles A. Blackman, Professor.
PHYLLIS E. THOMPSON, Ed.S.	B.S., University of North Dakota; M.A., Michigan State University. Education. Major Professor: Byron H. Van Roekel, Professor.
JULIA ANN WALKER, Ed.S.	B.S., Central Michigan University; M.A., University of Michigan. Education. Major Professor: Byron H. Van Roekel, Professor.
DONALD JEAN WILKENING, Ed.S.	B.S., Southeast Missouri State College; M.S., University of Wisconsin. Education. Major Professor: Charles F. Schuller, Professor.

### CANDIDATE FOR DIPLOMA FOR ADVANCED GRADUATE STUDIES — FALL TERM, 1969

URSULA KARSTEN FRANKLIN, D.A.G.S.	B.A., M.A., Michigan State University. French, Language and Literature. Major Professor: Laurence M. Porter, Associate Professor.
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# COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

LAWRENCE L. BOGER, DEAN

## GRADUATED SUMMER TERM, 1969

DEGREE OF  
MASTER  
OF SCIENCE

### Agricultural Economics

Gerald D. Schwab

### Agricultural Mechanization

Richard Joseph Patterson

### Animal Husbandry

James Robert Males

### Biochemistry

Robert Harry Millay, Jr.

Thomas Calvin Pederson

Kathleen Mary Rose

### Cooperative Extension

### Education

Richard Warren Hill

Kari Holtan Nodenes

### Dairy

Odon Pessoa Santana

### Fisheries and Wildlife

L. Dean Eyman

Thomas Edward Mears

Harold August Olsen

### Food Science

Ricky Delano Cone

Benjamin Tucker Counter II

George Gosselin Giddings

Jean Lavie

Herman Edward Liberona

H. Wayne Modler

Michael Marshall Moline

Lynn Randall Pope

### Forest Products and

### Packaging

Abdul Razak Bhutta

Bert W. Taylor

### Forestry

Warren Louis Nance

David Curtis Worel

### Horticulture

Sandra Elizabeth Kays

Judith Kay Lathrop

David Edward Passon

### Poultry Science

Matt A. Gustafson, Jr.

### Resource Development

William Lloyd Fix

### Soil Science

Eduardo Andres Fernandez-Tunon

Alvin J. Marion Smucker

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF ENGINEERING

### Agricultural Engineering

Thomas Harold Burkhardt

## CANDIDATES — FALL TERM, 1969

DEGREE OF  
MASTER  
OF SCIENCE

### Agricultural Economics

Werner Kiene

Chaudry Ghulam Qadir

Prayong Saiprasert

Kenneth Neal Wegenhoft

### Agricultural Mechanization

Omar Ulloa T.

### Animal Husbandry

Stuart Austin Lumb

### Biochemistry

Sandra Lee Baumann

Edmund John Hengesh

Fredrick Oliver O'Neal

Paul Daniel Snyder, Jr.

John Porter Tuttle

### Cooperative Extension

### Education

Ketty V. Mangaard

### Crop Science

Wayne L. Haag

Ronald Gene Shellenberger

### Fisheries and Wildlife

Dorance Charles Brege

John Rowland Gehring

Thomas Wayne Hardgrove

Thomas Earl Isley

Dean Paul Longrie

Phillip Terry Robinson

Frank John Tesar

### Food Science

Mark Howard Love

Bertha Julieta Rios Iriarte

### Forestry

Floyd Harvey Curtis



# COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

## DEGREE OF MASTER OF SCIENCE

### Horticulture

Martin Nodenes  
Joerg Schoenherr  
Alexander Jelle Alexis Sikkes  
Helen N. Siu

### Packaging

Helmer Niels Jensen, Jr.

### Park and Recreation

#### Resources

Walter Joseph Adams

#### Resource Development

Terry Allen Ringler  
Vaneé Saiprasert

#### Soil Science

Somjate Jantawat

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF ENGINEERING

### Agricultural Engineering

Manuel Leonardo Lecca  
Rodriguez

## DEGREE OF BACHELOR OF SCIENCE

### Agricultural Business

Richard Douglas Byrum  
Kenneth Austin Rudolph

### Agricultural Economics

Dennis Keith King

### Animal Husbandry

\*Benjamin Bruce Bartlett  
Lawrence Michael Downey  
Daniel C. Hoffman  
Lawrence Guy House  
Rex Edward Payne  
Virginia Leigh Schmidt.  
\*Paul Allen Schurman  
Antoinette Jean Tenlen

### Building Construction

Arlyn Michael Aschinger  
Randy Lowell Barnett  
Gale Francis Brohl  
Marc Frederick Goulait  
Dale Lee Hornburg  
Dennis Lewis Rogers  
Jeffrey Robert Rushton  
Phillip Dennis Shoemaker

### Dairy

Robert Joe Kraus  
Sidney Alan Mattson  
Donald Charles Williams

### Fisheries and Wildlife

Alan Doyle Bell  
\*Ronald Lowell Fobes  
\*Ralph Lorimer Hay, III  
\*Robert Lee Hite  
Karen Lois Le Pard  
David Michael Rocque  
Lawrence McKay Rubly  
John Paul Van Dalen

### Floriculture

James Edward Thomas

### Food Science

George Eveart Finkbeiner

### Forestry

\*Donald Harry Bellville  
Dennis Bruce Bowles  
\*Bruce Alwin Chaffin  
Arthur C. Clarke  
Joseph Michael Cox  
Flavio Nelson De Benedet  
Randy William DeGrow  
Paul Louis Gaebel, III  
\*David Walter Goller  
Richard Thomas Houghton  
\*John Frank Kelly  
John Edward Kopplin  
\*Everett Wayne Martindale  
Steven Thomas McKellar  
\*Bruce Orville Parsons  
Robert N. Patterson  
John Arnold Paul  
Joseph Michael Schwartz  
James Randolph Stoneman  
Andrew Bruce Taylor

### Horticulture Marketing

Roger Jack Anthony

### Horticulture Science

Gordon Hugh Kingsford, Jr.  
\*Larry Allen Wier

### Lumber and Building

#### Materials Marketing

James Charles Cleereman

### Packaging

Sanford Preston Ames  
Donald Richard Auten  
Kenneth John Baratta  
Richard Curtiss Bruce  
James Edward Copeland, Jr.  
Robin Lee Dobbstein

Lawrence Clifford Dull  
David Lawrence Farhat  
Joseph James Fleury  
Christian Donald Geltz  
Alan Dwight Heneveld  
\*David Ross Hennerman  
Edward Michael Homyack  
Ralph Allen Karl  
James A. Keyser  
Donald Thomas LaBelle  
Kenneth Lee Lemon  
Steven Lynn Miller  
George William Mock  
David Lawrence Nelson  
Sherman Walter Nelson  
Gary Blaine Ockey  
Russell Allen Raymoure  
Wilfred Eugene Riddell  
James Allen Rousseau  
Michael Robert Russell  
Herbert Harry Schueneman  
David Edward Thompson  
\*Robert Duane Usiak  
David Keith Wallace  
William Royal Walter

### Resource Development

Rick Edward Comstock

### Soil Science

Robert Lee Roller

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

### Agricultural Education

Thomas William Frank

### Fisheries and Wildlife

Robert Dean Hickman

\* With Honor  
\*\* With High Honor

# COLLEGE OF ENGINEERING

LAWRENCE W. VON TERSCH, DEAN

## GRADUATED SUMMER TERM, 1969

DEGREE OF  
MASTER  
OF SCIENCE

### Chemical Engineering

Ennio Giorgio De Zorzi  
Jagdish Manubhai Mehta

### Civil Engineering

Mustafa Acarturk  
Mohammad Akram Chaudry  
Hassan Farahbod  
Iftikhar R. Mufti  
Pravin Chimanlal Parikh  
Erdogan Mehmet Sener  
Wesley Edward Stimpson

### Computer Science

Robert Paul Treharne

### Electrical Engineering

William Joseph Byrne  
Robert Henry Caron  
Kong Hung Chan  
Chang Eon Kang  
Suneel Laxman Kelkar  
Suresh Kumar Nangia  
Herbert Fritz Pardula  
Brian Gregory Smith  
Jerae Steggall  
Prabhakar Krishnarao  
Vichare

### Mechanical Engineering

Kenneth Charles Cornelius  
Claudio P. De Zorzi-Spagnol

Anil Kumar  
John Joseph Lukasik  
Fernando Mercado  
William Clare Snider  
Hem Raj Vij  
Douglas Alexander Young

### Metallurgy

R. Vijayakumar  
Michael W. Wisti

### Sanitary Engineering

Antonio Aloysi

### Systems Science

John Frederick Dorsey  
Sanford Chester Lenchner

## CANDIDATES — FALL TERM, 1969

DEGREE OF  
MASTER  
OF SCIENCE

### Chemical Engineering

Kiransinh Vijaysinh  
Chauhan

### Civil Engineering

Sunthorn Aritajati  
Francisco Jose Cajiao  
Anan Chaikittisilpa  
Chun-ping Lien  
Krishna Chandra  
Mowlesher  
Natverlal R. Patel

### Electrical Engineering

Tze Tzong Chen  
Gary Lee Forbes  
Indur Murlidhar Goklany  
Baldev Krishan Gupta  
David Zimmerman Ring, III  
Martin Victor Seitz

### Mechanical Engineering

Liang-Chou Chang  
Kuchibhatla Sundar Das  
Boaz E. Eidelberg

Ram Gopal Gupta  
Ramji Hansraj Javia  
Arun Tilakraj Kapur  
James Carl Thelen

### Metallurgy

Sandra Marie Haarala

### Systems Science

Harbans Singh Gill

DEGREE OF  
BACHELOR  
OF SCIENCE

### Chemical Engineering

John Floyd Hunt

### Civil Engineering

Clinton C. Clark  
Willie H. Harris  
William Lawrence Miller  
Thomas Edward Myers

### Computer Science

Lance Alexander Fleming

### Electrical Engineering

Salman Y. Al-Roumi  
Robert George Baker, Jr.  
John Michael Randolph  
Richard James Seif  
Gerald Robert Szostak  
Ronald Stephen Vokits  
Thomas Arthur Wade

### Materials Science

Donald Gene Baird

### Mechanical Engineering

Dennis Donald Dailey  
Robert James Fry, Jr.  
Dennis Earl Knoeferl  
Randall Elton Morris  
\*Loren David Simons  
Charles Erick Walls  
Stephen John Wheeler  
Michael Edward Winkler

\* With Honor

# COLLEGE OF HOME ECONOMICS

JEANNETTE LEE, DEAN

## GRADUATED SUMMER TERM, 1969

DEGREE OF MASTER OF ARTS	<u>Child Development</u> Subhadra Abraham	<u>Home Management</u> Ester Mae Franck Cox	<u>Textiles and Clothing</u> Karin Joan Bargar Heung Grace Chung Sandra Lee Mitchell Jacquelyn Ann Orlando Betty Voran Smucker
	<u>Family Studies</u> Sister Margaret Mary Thompson, S.C.N. Ruth S. Wakeland	<u>Related Arts</u> Beverly Allred Eubank	
DEGREE OF MASTER OF SCIENCE	<u>General Home Economics</u> Diane Helen Eno Glenda Eileen Moyer	<u>Institution Administration</u> Mildred Jean Chambers Ida Sue Evans Jean Bernadette Liberty Sister Josita Prokosch	<u>Nutrition</u> Denise Lee Holmes

## CANDIDATES — FALL TERM, 1969

DEGREE OF MASTER OF ARTS	<u>Child Development</u> Nancy J. Fraser Karen Louise Martikainen	<u>Home Management</u> Martha Lou Goss Christine Tobias Walter	
DEGREE OF MASTER OF SCIENCE	<u>Foods</u> Ruth Ellen Maul	<u>Institution Administration</u> Diane Vachout Stephens	<u>Nutrition</u> Shirley Chih-Hsuan Chen



# COLLEGE OF HOME ECONOMICS

## DEGREE OF BACHELOR OF SCIENCE

### Foods

Rebecca K. Foryt  
Nancy Lou Vander Vere

### General Clothing and

### Textiles

Mary Ellen Fagan

### General Home Economics

Diane Ragnhild Anderson  
Susan Gail Benedict  
Martha J. L. Brown  
Carol Jean Emmett  
Neva Jeanne Herrold  
Jean Cran Penfold

### Interior Design

Linda G. Batdorff  
Patricia Klingler Boettcher  
Jill Ann Dreissigaker  
Mary Martha Dunham  
Susan Lynn Hart  
Donald Avery Hayes  
Valerie Ann Hays  
H\*\*Morna Cocanougher Kline  
Carol Lynn Richmond  
Elizabeth Dunbar Williams

### Retailing of Textiles and Clothing

Beverly M. Beach  
Debbie R. Feldman  
Susan Ellen Fraser  
Sharon I. Handlon  
Barbara Cain Hays  
Judith Claire Idzik  
Candace Kay Kline  
Beverly Ann Maas  
Beverly Nalepa  
Ann Louise Plumtree  
Colleen Ellen Robison  
Mary Katherine Satterfield

### DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

### Child Development and Teaching

Judith Elaine Cappiello  
\*\*Donna Rosie Howe  
Sara Anise Moore  
Patricia Ann Pylkas  
Mary Elizabeth Russell  
Vicky Sue Trail  
Barbara Jean Van Dussen

### Home Economics Teaching

\*Deborah Jill Butcher  
Janet Margaret Case  
Marilyn Marlene Gallie  
\*Mary Catherine Hamel  
Kay Frances Haws  
Eileen Sue Hicks  
Karen Gene Kemp  
Judy Emily Kraatz Knott  
Joanne Louise Kriss  
Linda Sue Letwin  
Doris Louise Marshall  
Sharon Marie Matelski  
Sally Ann Narhi  
Sarah Ann Richards  
Marcia Ann Winchell

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

# COLLEGE OF VETERINARY MEDICINE

WILLIS W. ARMISTEAD, DEAN

## GRADUATED SUMMER TERM, 1969

DEGREE OF  
MASTER  
OF SCIENCE

### Anatomy

Dale Corwin Peerbolte

### Pathology

James Edwin Rogers

### Veterinary Surgery and Medicine

Donald Allen Henshaw

## CANDIDATES — FALL TERM, 1969

DEGREE OF  
DOCTOR OF  
VETERINARY  
MEDICINE

Grant Wayne Boam  
Dennis Arthur Boelter  
Roman Oleh Bohonowych  
Terrance David Braden  
\*Linda Emily Brown  
\*William Frederick Brown  
Joe Dale Burek  
\*James Alexander Burnett  
Donald Burroughs  
Margaret Ann Chapel  
Mary Blommer Collisi  
Robert Walter Coppock  
William Alan Curtis  
Kenneth George Eshelman  
\*Michael Leo Furcolow, Jr.

Robert Michael Goldman  
Carolyn Irene Granke  
\*Richard John Havas  
\*William Dane Jaxtheimer  
\*Norman Arthur Kibiger  
Harry Harold Lucyshyn  
\*Dale F. McKenzie  
John Campbell Murphy  
John Frederick Pepper  
Dennis Ray Peterson  
\*Phillip Pierre Antoine  
Randall  
\*\*Christine Cecilia Ratke  
Randi Rae Robinson  
Ronald James Salswedel

Emery August Santerre, Jr.  
Douglas Patterson Schank  
Roger Lawson Sell  
\*Karen Ann Sleeper  
Joel Jay Smiler  
Robert John Sray  
Keith Earl Sterner  
David Robert Stoloff  
Martin Cesar Torres  
Frank Van Amburgh  
Rodger Allen VanderWerff  
\*Michael Perrin Warren  
Gary Ross Willwerth  
Harlan Andrew Witt  
\*Kathleen A. Yaros

DEGREE OF  
BACHELOR  
OF SCIENCE

### Veterinary Medicine

Lindi Karon Daniel  
\*\*Paul Anthony Garbaccio

\*David Alan Komitor  
Andrea Sue Nordrum

\*\*Sally Janet Wechsler  
James Walt Wilson

\* With Honor  
\*\* With High Honor

# COLLEGE OF BUSINESS

KULLERVO LOUHI, DEAN

## GRADUATED SUMMER TERM, 1969

### DEGREE OF MASTER OF ARTS

#### Economics

Faisal Abdul-Razzak  
Al-Kazemi

Robert Edward Hayes, Jr.  
Barbara Perelman Marcus

## GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

### DEGREE OF MASTER OF BUSINESS ADMINISTRATION

William Harold Ames  
John Vinton Arthur  
Alvah Winslow Bearse  
Rudolf Heinrich George  
Beilfuss  
Thomas Edward Berndt  
Richard Nathaniel Berry, Jr.  
John Bohlsen  
Calvin M. Bopp  
Robert Paul Bostrom  
Gerald Philip Bouwens  
Roger Dale Bowler  
John Edward Carlin  
James Alfred Carter  
Victor Ceserani  
Richard Heames Chamberlin  
Richard Lee Close  
Michael Richard Clowe  
John Walter Cronkite  
Flavius Delocienda, Jr.  
Terrance James Dobson  
Carl Louis English  
Steven Harrison Evans  
Zita Silvestre Fernandes  
Francis Leonard Filipiak  
Gary Wayne Fink  
Thomas William Forehand  
Charles Stone Foster  
Kenneth Lawrence Foster  
Charles Michael Fox  
John Bernard Gabor, Jr.  
Egon Handel  
Theresa Ann Hanson  
Lyle Robert Hedglen  
Brian Roland Hedman  
Alec Hicks, Jr.  
Wilbert Charles Hicks, Jr.  
Alma Diaz Hidalgo

William Carlton Horiszny  
Ming-Miin Hsyue  
Ronald O. Huntsman  
Allan Edward Jones  
Gregory James Kelley  
Harold Lewis Kerr, Jr.  
Ronald Dean Kovar  
Andrew Graeme Park Laird  
Jerome C. Langham  
Richard Dale Leininger  
William Franklin Lewis  
Mark Robert Lukes  
Lawrence Guy Lyman  
Gerald Martin Major  
Lynn Edward Mantikoski  
Stephen Patrick Marshall  
Frank Paul Massa  
Franklin Ellis Maxwell  
William Francis McNary III  
Boyce Young McQueen  
John Martin Merker  
Norman Frederick  
Muelenberg  
James Francis Miller III  
Ronald Arthur Milne  
William Searles Munn  
Lloyd Morrill Munson  
Dennis Wayne Naranche  
Jörg Rüdiger Neuffer  
William Edward Newton  
Thomas Allyn Niehaus  
Ronald Delmar Oberst  
Dennis William Olmstead  
Charles Edward Ougheltree  
Norman Arthur Pappas  
Claude Roger Parent, Jr.  
Aubrey Burns Patterson, Jr.  
Edward Peter Pensock

Robert Michael Powers III  
Roger Nixon Rey  
Maurice Joseph Rosenberg  
Donald Mark Rudick  
John Henry Ruehlin  
Robert Lewis Rumpf  
Nit Sammapan  
Richard Duane Sampson  
Bowen Sapp  
James Kooniger Schmidt  
Richard Derek Schoonmaker  
Warren Schrader, Jr.  
Erlinda Mendoza Sison  
David Warren Sjolín  
John M. Spurgeon  
Ralph Herbert Squires, Jr.  
Harold August Steben  
John Scott Stephenson  
Geoffrey Grey Strange  
William Kerry Taylor  
Robert Keith Tice  
Clarence William Towsley  
John William Vann  
Ronald Charles Vogt  
William Lee Waanders  
Frederick Stephen Warner  
Richard Everett Watkins  
George Paul Weiland  
William Leslie Welch  
George Henry Welliver, Jr.  
David J. Whittaker  
Douglas Arthur Williams  
Michael John Wilson  
Theodore Alford Wilson  
Howard David Winkler  
Dennis W. H. Wong  
Roger George Young  
John Steven Zdanowicz



# COLLEGE OF BUSINESS

## CANDIDATES — FALL TERM, 1969

### DEGREE OF

### MASTER

### OF ARTS

#### Economics

Louis Raymond Eeckhoudt  
Mufid Kury Harb  
Robert Laurence Near

Luiz Antonio de Oliveira  
Lima  
Gondy Bhaskara Rao

Lawrence Israel Shulman  
Ahmed Saleh Saab Twajiri  
Soichiro Yoshida

## GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

### DEGREE OF

### MASTER OF

### BUSINESS

### ADMINISTRATION

Yigit Türkay Alemdar  
Hugh Michael Bean  
Edward Benson  
Kevin Patrick Broderick  
Robert Douglas Bruce  
William James Carlson  
Michael Bruce Combs  
Christopher Curry  
Odival Pereira de Avila  
Ronald Robert Demorest  
Glenn Edward Detrick  
Ival Gene Dutcher  
Daniel Patrick Dwyer  
Alvin Jay Elders  
Dennis Scott Farley  
Jacob Jacques Gelman  
Thomas Frank Grablick  
Lillian Dolores Greene  
Stanley Douglas Griffis  
Marvin Kenneth Hackett  
Edward Archie Hall  
John William Haney  
Franklin Edwin Hardgrove  
Roberta Carol Harms  
Alan Edward Hartwick  
James Sparks Hayes  
Jack D. Helmer

Bruce Richard Hering  
Mary A. Higby  
Walter Traynham  
Houston, Jr.  
Robert Comstock Hunter  
William Clarence Jacobs  
Anand Prakash Jaggi  
Masumi Kato  
Madan Raj Lalwani  
Gordon Ward Lamphere, Jr.  
Abdul Latif  
Dante Maurice Laudadio  
Raymond Malcolm Little  
Walter Carlton MacLachlan  
Maleeratna Mahatharadol  
Stanley Robert Main  
Dilson Garcia de Mattos  
David Louis McDonald  
Bernard J. McNamee  
Jagdish Manubhai Mehta  
Larry Raymond Miles  
Jack Raymond Miller  
Alysson Darowish Mitraud  
Paul Dewayne Moerman  
Toshio Mōri  
Jagmohan D. Mundhra  
Joseph A. Ondraka

Richard Harold Osborn  
James Terry Pearce  
Dale John Peterson  
David F. Potyraj  
Larry Eugene Rittenberg  
Michael Stewart Robinson  
Thomas Carl Schafer  
Lester Chiachin Shu  
Raymond L. Simescu  
Leandro G. Sinco  
George B. Skelton  
Lyle J. Speerschneider  
John Victor Stafford, Jr.  
James Dane Starling  
Jaime Suarez-P  
Robert D. Temmler  
Frederick Hubert Thies  
Richard Paul Tomasovic  
Usama Mohamed Hassan  
Trabulsi  
David L. Utterback  
Joseph Varga  
Dale Trent Wachner  
David Eugene Williams  
Jane C. C. Yeh Wu  
Jaime Yoshiyama-Tanaka

### DEGREE OF

### BACHELOR

### OF ARTS

#### Accounting

H\*\* Donna M. Baker  
\*Jeffrey J. Bartlett  
James Matthew Brickley  
James Andrew Chmielewski  
Edward Earl Christner  
Robert Alan Crist  
H\*\* Thearon J. Earegood  
Gary Andrew Gazzeny  
Frederick Henry Genel  
\*Larry Charles Helber  
Barry Bruce Hoskins  
Michael James Littlefield  
William Joseph Mukavetz  
George Earl Weber  
Norman Allen Wise  
\*Howard Edward Wisner

#### Economics

Larry Delano Bell  
Stephen Benson Chaffee  
Marc Paul DeWitte

\*Robert Charles Drury  
Leslie Bearden Ford  
David Jack Goss  
David Richard Linton  
Alan Root Lockwood  
Robert Graham Meiers, Jr.  
H\*\* Charles Edward Menich  
Gregory Allan Merritt  
Mark H. Newton  
David Wayne Robinson  
H\*\* Gregory Mark Glanffrwd  
Thomas

#### Financial Administration

H\*\* Michael J. Clutter  
Jonathon Lee Gean  
\*Norman John Glasser  
Robert George Jubb  
Eric Bartholomew Latos  
Royal Paul Lefere, Jr.  
Rodney Michael Lovas  
James M. Miller

Steven Allan Nelson  
James Edward Riley  
Frank Charles Rinkus, Jr.  
Austin Leo Stephens  
\*Thomas Howard Van Dis

#### Food Marketing Management

Thomas Willard  
Johnston, Jr.

#### General Business Administration

Larry Eugene Andrick  
Marvin Louis Andringa  
John Eldon Ball  
Donald Otto Barlow, II  
Robert Elwin Blackmer  
Bernard Michael Bullard  
Rick Thomas Carrier  
Daniel George Durack  
Rodney Daniel Ellis

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

# COLLEGE OF BUSINESS

## DEGREE OF BACHELOR OF ARTS

Vincent Joseph Ferris, Jr.  
David Edwin Gibbings  
J. Patrick Godfrey  
John Peter Hanchak  
Gary Lee Hanel  
Michael Ross Harvey  
Peter Edwin Johnson  
Richard Harold Johnson  
Bruce Allen Katz  
Gregory Peter Killoran  
Juris Klovans  
William Joseph Kmet  
Douglas Kimball Lamb  
John Harmon Liles  
Ronald E. Malmborg  
Robert James Martin  
Michael Grant McCormick  
Lana Ranae Meyerson  
Robert Carl Passiak  
Robert John Powers  
Jack Burt Riley  
Walter Albert Roman  
Carl Frederick Schlegelmann  
Vernice Susan Stinson  
Charles Lee Van Namen  
Jonathan J. Wainwright

### Health Facilities

#### Management

Robert Ashton Moco  
Michael Allen Sponsler  
Lauris Brian Suter

### Hotel, Motel, and Club

#### Management

Roger Alan Miller

### Hotel and Restaurant

#### Management

Charles Turner Abbott  
Thomas William Allen  
Dennis Raymond Anchors  
R. E. Olds Anderson, Jr.  
Philip Louis Archambault  
Guy Thomas Atkinson  
Benjamin George Bair  
Thomas J. Brown  
Robert Stanley Buell  
Robert Edward Dirks

JoAnna Charlotte Funk  
Anthony Parker Hall  
John Stowell Harris  
Richard B. Hill  
Ronald J. Merizon  
Paula Marie Neese  
David Joseph Nutting  
\*William Harley Ragla  
Lawrence Benjamin Rose  
Terry Michael Sargent  
David L. Schmitt  
Vance Earle Scott  
Michael Robert Simpson  
Daniel Edward Speasmaker  
Paul Kelley Sullivan

### Industrial Administration

Thomas F. Gillham  
Gary Thomas Hayes  
Steven Craig Pugh  
Jerry Wayne Rathburn

### Marketing

Douglas Allen Barclay  
Michael Paul Berry  
Lawrence Allen Blackwood  
David Michael Clapper  
Robert Eugene Davis, Jr.  
Joel Lee Edwards  
Mark Kevin Erickson  
David L. Frink  
Charles Wilson Gaa  
Alan David Giroux  
Michael Robinson Homant  
Jay T. Knutsen  
James Michael Landrum  
Richard Paul Martel, Jr.  
Jon Patrick McGeath  
\*Michael Leslie McKay  
Douglas Joseph Mikel  
\*Jeffrey Alan Mills  
Kenneth L. Mills  
\*\*Roger Thomas Murphy  
Robert Michael Nastas  
Randolph Richard Newhouser  
Robert John Olson  
James Robert Sakar  
Federico Irving Sánchez

\*John Edward Simmons  
Larry Edward Simons  
Stephen William Smith  
Gerald George Tremblay  
Gary Lee Van Dam  
Kenneth John Vander Hoff

### Office Administration

Mary Lynne Frye  
Joyce Elaine Mantel  
Anne Marilyn Wood

### Personnel Administration

Robert J. Adamson, II  
Robert LeRoy Cross, Jr.  
Michael Gregory Getty  
Randall Lee Hellman  
Charles Leonard Hoebeke  
David E. Martin  
James Allen Matthews  
Timothy J. Todish

### Risk and Insurance

Eugene Thomas Lacroix, II

### Transportation

#### Administration

Alan William O'Grady  
Clifford Joseph Reilly

## DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

### Business and Distributive

#### Teacher Education

H\*\*Mary Ann Finneren  
\*Ilona Ilene Galloway  
Philip Armand Henault  
Steven Thomas Johnson  
\*Nancy Marie Lewis  
Sally Kay Myall  
Thomas Dwight Stephens

### Economics

Janet C. Goulet  
H\*\*Thomas Allen Groendyke

# COLLEGE OF EDUCATION

JOHN E. IVEY, JR., DEAN

## GRADUATED SUMMER TERM, 1969

### Education

Richard Charles Acosta  
Clare Edward Adkin  
Mary Eleanor Aikey  
Lucy Elizabeth Ainsley  
Philip Delbert Albright  
Eloise Allen Alles  
Dottie Mae Andersen  
Gary Louis Anderson  
Laurie Arvid Anderson  
Michele Eileen Anderson  
Robert Ralph Anderson  
Sandra A. Andresen  
Karen M. Antcliff  
Iris Ruth Arthur  
Hazel Neva Babcock  
Dale Royce Bachman  
Barbara Bowman Bacholzky  
Frank John Bacholzky  
Dora Gene Banta  
Allen Edwin Bard  
Linda Sue Barth  
Erwin Merle Beenken  
Barbara Jean Bell  
Annie Bell Belton  
Charles E. Benson  
Barbara Jean Bentz  
Barbara Jo Bereman  
John William Bergstrom  
Elaine Burchell Bigelow  
Anthony Mathias Birg  
Jerome Paul Birkholz  
Phyllis Listman Bodell  
Mary Ann Hobart Bogard  
Anne C. Borgerson  
James Anthony Born  
Paulette Jean Braccio  
Dennis L. Brasser  
Kathleen Allen Brazil  
Raymond Emil Bremer  
Karen Diane Brewer  
Phyllis Jean Brewster  
Barbara Ann Bronson  
Glen Brown  
Myra Gregory Brown  
Lillie Ruth Bryant  
Norris Clark Bryson  
Sandra Kay Bunce  
Donald Clare Burns  
Linda Marie Burns  
Eleanor Kaye Burrows  
Rosa May Seward Caler

Margaret Eileen Camp  
David Kenwood Campbell  
Ronald Andrew Carmany  
Kenneth Fay Carothers  
John Edward Carr  
Priscilla Sharon Carr  
Fred M. Carter, Jr.  
Albert Lee Catallo  
Norma Jean Champion  
Carole Marie Chaps  
Marguerite Ann Chartrand  
Anita Cohen  
Clifford Coit  
Terry Michael Collins  
Garnet Koons Conard  
Michael Neil Connolly  
John Patrick Cooke, Jr.  
Curtis W. Cooper  
Richard Judson Cornish  
Margaret Miller Crick  
Clifford Robert Cross  
Raymond L. Cummings  
David Louis Cunningham  
Rodney Frank Currier  
Jacqueline Therese Cyr  
Mary-Jo Dailey  
Sharon Elizabeth Daly  
Howard Robert Dashney  
Patrick Douglas Daunt  
LeRoy Edward Davis  
Sister Mary Gregory Davis  
Susan Margaret Davis  
Joyce Alfra Dean  
Betti Jane Decker  
Richard Garret Demarest III  
Jack T. Dickerson  
Jane Coffman Ditzenberger  
Nancy Grove Donohue  
John Louis Dragonetti  
Kay Harris Dukeshner  
R. William Dunham, Jr.  
Robert Marvin Eggleston  
Mary Alice Eisenhower  
Julie Beth Eliasohn  
Sharon Christine Elicker  
Lois Boundy Elliott  
Donque Ellis  
Patricia Fisk Ellis  
Clark Kennedy Elmer  
Ben Neal Emdin  
Margaret Mary Faust  
John Robert Fero

Lois Jean Field  
Alfreda Sallie Fields  
Barbara Ann Rohler Fink  
David Allen Fitch  
Roberta Anita Fitton  
Dennis Stewart Floyd  
Charlotte Daun Folkert  
Lynn Allan Folkert  
John Joseph Forte  
Katherine Frances Fortier  
Shirley Lucille Forton  
Cletus William Friend  
David Allan Frisbie  
Peter Fusi, Jr.  
Wayne Lee Gates  
Frank G. Gertz  
G. William Gibbs  
Melody Jo Glick  
Shirley Beverley Gogoleski  
Frances Louise Good  
Neil Norman Gould  
Larry Wayne Graening  
James H. Green  
Della Patricia Gregory  
Margery Ellen Grier  
Frank Joseph Gruber IV  
Daniel Benjamin Gryzen  
Francis Aloysius  
Guldbrandsen  
JoAnne Kay Gulliver  
Eunice M. Gunn  
Stephanie Ann Guyor  
William Harris Haak  
Ann Stevens Haas  
Theodore Anthony Hagen  
Diane Lake Haight  
Thomas Hain  
Carmen C. S. Handel  
Ruthel Elizabeth Hankerson  
Norma Jean Hansum  
Linda Janet Harder  
M. Aileen Harkins  
Judith H. Hartnett  
Virginia Scott Hastings  
Robert Thomas Hayduk  
Richard Alan Headley  
Brian Kenneth Edward  
Hennen  
Howard Clifford Henry  
Sister Gretchen Hess  
Joy Helen Hetherington  
Edwin Thomas Heywood

DEGREE OF  
MASTER  
OF ARTS



# COLLEGE OF EDUCATION

## DEGREE OF MASTER OF ARTS

Robert Charles Hill  
Joan Marie Hoffman  
Marcia B. Holder  
Christine Mills Holmes  
Mary Lee Holtz  
Irma Briggs Hooker  
Diane Elizabeth Hoover  
Carol Jean Horetski  
Wanda Lou Huber  
Margaret Fredricka Hudson  
Diana Sue Hunter  
Marjorie Ann Inman  
Vincent Carter Irwin  
Linda Diane Isbister  
Maxie C. Jackson, Jr.  
Bert Jacobsen  
Sarah Elizabeth Jacobson  
George Karl Janes  
Roland Samuel Joelsson  
Clarence Fred Johnson  
Gunnard Nixon Johnson  
Judith Sue Johnson  
Phyllis Ann Johnson  
James Joseph Johnstone  
Thomas Michael Jordan  
Maralouise Paulder Kaiser  
Allan James Kaiser  
Richard L. Kalich  
Rosemary Margaret Kalkman  
George K. Kallingal  
James Stephen Kaminsky  
Gloria Jean Kapp  
Kitty Jeane Keith  
Carol Hermance Kennedy  
James Edwin Kerscher  
Laura Lynn Kilker  
Beverly Jane Knight  
Hilma Eleanor Knoblauch  
Charlotte Graham Knox  
Reinhart Joseph Krause, Jr.  
Ruth E. W. Krebs  
Ernestine Robinson Kyles  
Kathryn Ann Lalley  
Patricia Ann Landauer  
David Howard Landers  
William Eugene Lasher  
Larcia Fayette Latimer  
Carol Jane Lauckner  
Janet Marie Lawless  
Betty Jean Leavitt  
Laurence Harley Lee  
Frank D. Lehnem  
William John Lemcke  
John Chester Lepien  
Sharon Kay Lewis  
William Glenn Ligon  
Patricia Mary Lilly  
Ruth Emmons Lincoln  
William Hugh Lobsiger  
Barbara Winkel Longstreth  
Carole F. Lower  
Barbara Jean Lueck  
Roger Russell Maack  
Barbara Jean MacDonald  
Judith Coddington Mahoney  
John Peter Malafouris  
Carolyn B. Malmberg  
Eugenia Victoria Marin  
Garnette Faith Marmion  
Alan Albert Martel

Dennis Wallace Martin  
Marjorie M. Maxcy  
Edna Ann McAra  
John Alexander McCormick  
Clara Isabel McIntyre  
Norman Joseph McIntyre  
Barbara Lee McKee  
Cecil Arline McKenzie  
Henry Samuel McKeown  
Marvin Markus McLaughlin  
Edna Allen McMillan  
Donald Richard Meinke  
Henry Judson Meredith  
Janet Baker Michaelson  
Nicholas Marion Midea  
Michael F. Miles  
Dorothy Marie Miller  
Robert Fraser Miller  
Judith Ann Misner  
Lucile Janet Missimer  
Beverly Ford Mitchell  
Gerald Lee Moerland  
Margaret N. Money  
Phyllis Annette Moody  
Duane Harrison Moore  
Jane Ann Moore  
John Joseph Moreau  
Richard D. Morris  
Sheila Martin Morrison  
Don Leonard Mourand  
Michael Lane Munn  
Elaine Linda Muntyan  
Fatema Muveed  
Marcy Ann Nabrezny  
Sharon Kern Newman  
Kathleen May Turk Newton  
Mary Patricia Nicholson  
Carolsue Nikander  
Florence Fouché Norton  
Rosemary Evans Notzold  
Thomas Allen Nyhus  
Marshall James Nyland  
Robert Bruce O'Brien  
Bonnie Karel Olson  
Janet Findlay Orndorff  
Anthony Frank Palazzolo  
Charles Richard Parrott  
Charles Irving Patridge  
Jeanine B. Patton  
Ted Pedas  
Mark Richard Penta  
David Lynn Percival  
James David Phillips  
Melvin J. Piccard  
Laureen Louise Pinkerman  
Mary Bolton Pinnick  
Leonard Edward Pitts  
Paula Faye Posey  
Ann Rita Potes  
Myra Charlene Potocsky  
Helen Joyce Preston  
George William Rausch  
James Glen Reasoner  
Ann Lea Reiser  
Nevin Alan Rice  
Dorothy Jane Richardson  
Mary A. Riedel  
Carolyn Jean Ringeisen  
Janice Onetta Robbins  
Ronald Douglas Roberts

Janet Sue Robinson  
Norman Lee Robison  
Donald Richard Rochon  
Laura Ruggles Roehler  
Roger Clarence Roller  
Joan S. Rowerdink  
Victor S. Saier, Jr.  
Barbara Jean Samulak  
Barbara K. Sander  
Delores Ann Sanders  
Sanong Sansanayuth  
Angelo Joseph Scalet  
Rebecca Bricker Schaefer  
Judith Ann  
Schmachtenberger  
Katherine Pittman  
Schneeberger  
Chester H. Schneider  
Marcie Gail Schoenfeld  
Eugenia Stewart Schultz  
Susan Jane Scott  
Frank A. Scozzafave  
William Todd Sebright  
Roger Lee Sellon  
Nancy Ellen Wiseman  
Seminoff  
Marian Cathryn Shaffer  
Khalida Khanam Shami  
Valerie Joan Sheppard  
Carol Anderson Shoop  
Joseph Alfrout Shurn  
Gary Allen Sigurdson  
Patricia Cuza Silea  
Judith Grace Singerling  
Michael Fay Sinn  
Tarry Gene Slusher  
Carol Lucille Smith  
Eugene LeRoy Smith  
L. Michael Smith  
N. Donald Smith  
Philip Cecil Smith  
Stanley William Smith  
Stan John Solokis  
Milton C. Spaan  
Sarah Anne Sprafka  
John Francis Springer  
Patricia Louise Ryan Starmer  
Gladys Elda Steil  
Noreen E. Steinke  
Linda Le Stephenson  
Bill Gene Stocker  
Peter Stoll  
Sister Melmarie Stoll  
Burton Kent Straight  
Ernest Elmond Strong  
Gerald Frederick  
Summerhays  
Constance Jeanne Svoboda  
Philip J. Swainston  
James Arthur Swanlund  
John W. Swart  
Richard Lee Sweet  
Roger Eugene Sykes  
Eloise Sandra Szedlak  
Brenda Anne Taggart  
James Kay Tanis  
Marcia Dee Tanner  
Philip Ross Taylor  
Mary Margaret Tegeler  
Mary Loncharte Teuber

## COLLEGE OF EDUCATION

### DEGREE OF MASTER OF ARTS

Stanley Anthony Theis  
Arthur William Thomas  
Terry Allen Thomas  
Wendell Henry Thomas  
William Richard Thomas  
Dona Mae Thompson  
Robin Lee Thorell  
Allen Ejnar Thunell  
Barbara Jane Tibbetts  
Lawrence Stewart Tiejema  
Betty Jane Topp  
Garnet Victor Tripp  
Real Jean Turcotte  
Ronald Joseph Ivorik  
Samuel David Ulsaker  
Dan David Underwood  
Glenn Raymond Ur  
Raymond Alva Valle  
John R. Van Den Berg  
Joanne E. Vander Kamp

LaVonne Marie Vander Werf  
Gerald Arthur Vande Velde  
Lee Van Haaften  
David Allan VanKammen  
Walter H. Van Meeteren  
Annamma K. Varghese  
John Garth Vogel  
Charles J. Volin, Jr.  
William McGregor Waddell  
James Albert Walker  
Rosemary Elizabeth Wall  
Winfred Louis Walterhouse  
Richard D. Warren  
Robert Marim Waszak  
Delight Carmien Watson  
Paula Helene Weinstein  
Weiss  
B. Caryn Welter  
Janet McIntyre Werner

Diane Gale Wert  
Fred Michael White  
Marilyn Joyce Whitford  
Louis J. Wieber  
Joan Mary Wicjorek  
Marilyn Morrison Wiegand  
Phyllis E. Willis  
Ronald James Winter  
Carl Dale Wissink  
Barbara Rollins Wolven  
Betty Ann Work  
James Virgil Yantz  
Megan Haupt Yeomans  
Steven Louis Yokobosky  
Ruthanne York  
Albert Zackrie, Jr.  
Florene Marie Zanardelli  
William Dennis Zock  
Robert Allen Zorn

### CANDIDATES — FALL TERM, 1969

#### Education

Janet Areatha Amos  
Jo Ann Andrews  
Njoku E. Awa  
Fathol Rahman Bahamid  
Abul Bashar Mohammad  
Bahauddin  
Richard Walter Bakita  
Joan Carr Barch  
Bernice M. Barlow  
Yvonne Hollister Beach  
Melinda Foulke Beckwith  
Robert Clayton Beedon  
Terry Leigh Beemer  
Jeanne Gretchen  
Bewersdorff  
Jongkon Bhodivihaga  
Beth M. Bigler  
Elizabeth Isobel Blanchard  
Susan Earleen Block  
Robert O. Blunt  
Daniel Price Boisture  
Janet Kay Bokros  
Dorence S. Bonin  
Seymour Robert Broder  
Terry Lee Bullock  
Carolyn Wells Cadwallader  
Carolyn Ann Calender  
Marcia B. Carter  
Elaine Ethel Cherney  
Daniel Varnum Collins  
Iva Marie Courtney  
Olga Karpis Creaser  
Marjorie Louise Croll  
Stephen Waite DeMar  
Eugene L. DeWys  
Robert E. Dixon  
Robert Larimore Downs  
Carma Margaret Dryer  
Charles Homer Dukti  
Gregory Lee Edgerton  
Freda Marie Ells  
Robert Donald Englander  
Kurt P. Ernst  
Donald Gerald Erskine

W. James Erskine, II  
Daniel Walker Everett  
Nancy Elizabeth Ficenski  
Keith Eugene Fisher  
Marilyn Kay Francis  
Peggy Jeanne Freds  
Robert Francis Geese  
Susan Hayes Gibbs  
Norma Jean Gilmore  
Karen Weight Gurchiek  
Suzanne S. Harwick  
Joseph A. Hayes  
Mark Albert Hector  
JoAnn Heeringa  
Peggy Ann Hine  
Christine Suzanne Hoffman  
Julie Claire Horvath  
Jean Patricia Howieson  
Judith Ann Hoxie  
Margaret Meehan Joslin  
Thomas Wesley Karjala  
Daniel Karl Kelley  
Ann Terese Kirkwood  
Arthur Fredrick Kluge  
Lucile Gallagher Kahloff  
John C. Krohn  
Ronald Hugh Laviolette  
Celia Frazão Soares  
Linhares  
Gary David Lummen  
Abdulaziz Abdullah Masood  
Douglas George McKenzie  
Eileen Mary McVeigh  
Gail Ella Mercer  
Lucille Carolyn Minervini  
Loreita Wanda Mohler  
Calvin Wayne Molyneux  
Max Raymond Monette, Jr.  
Margaret Deitrich Natarella  
Susan Clark Newberry  
Dalsa Eames Nichols  
Carol E. Noid  
Richard R. Noid  
Henry Floyd Noller  
Jack Douglas Oliver

Vernita B. Pierce  
James Arthur Powers  
John Stephen Prevost  
Mary K. Prince  
James Allen Raymond  
Sandra Kaye Rentschler  
Virginia Upton Ritsema  
Mary Denise Roach  
Regina Heffelfinger Rocca  
Joyce Margaret Romanski  
William Granville Scharffe  
Kathleen Kaye Schneider  
Steven Jerome Schott  
Frank Alexander Seaver III  
Mosen Sharif Shakrani  
Albertine Marie  
Simmerer S.S.J.  
Nella Lows Snapper  
Henryka Janina Sokul  
Henry Stanley Spenski, Jr.  
Gladys Elaine Stanfield  
Joyce E. Stone  
June Dunster Stoppels  
Judith Allen Stowe  
Patricia Bennett Sullivan  
Thomas Andrew Taliaferro  
Dorothy Steinbrook Tingley  
A. Yvonne Tubich  
Pearl Vander Kooi  
Juanita Arlene Van Valin  
Carole Corinne Varga  
Heraldo Marelum Vianna  
Edwin L. Viera  
Pearlena S. Wallace  
Ronald E. Wallin  
Paul D. Wartner  
Sandra Rae Wells  
Lee White  
Alfred Jay Wier  
Kathleen Marilyn Wolfe  
Frances Younger  
Roquiya Zainuddin  
Leo Anthony Zupin  
David Allen Zwart

### DEGREE OF MASTER OF ARTS

# COLLEGE OF EDUCATION

	<i>Elementary Education</i>
	Marilyn Lila Adams
	Jean Ann Allison
	Sheila Margaret Anderson
	Nancy Kay Ashendorf
	Margaret Ann Baratta
	Sandra Kay Bass
	Marian Kay Bastow
	Marye Lynn Berg
	Robert Boyd Bernstein
	*Linda Joyce Bonnell
	Patricia Ann Branigan
	Kathleen Ann Cain
	Kathleen Mary Campbell
	Douglas Raymond Carpenter
	Ruth Ann Carr
	*Jack Edward Carrick
	Sharon Maria Christie
	Helen Bowen Collins
	Pamela Anne Collins
	Luann Mary Cousino
	Thomas L. DeRoseau
	*Janet Kay Drinkwater
	Elaine Jean Engels
	Louise Ellen Erber
	*Melinda Mae Eriksen
	Susan Esther Facktor
	Connie Maria Fernandez
	Cheryl Ellen Field
	Claudette Kathleen Field
	*Sara M. Flanders
	*Linda Louise Church
	Foster
	Marilyn L. Freeman
	Margaret Anne Friedle
	Judy Elaine Gehring
	Barbara Kay Gerard
DEGREE OF	
BACHELOR	
OF ARTS	

	Julie Ann Hagen
	Mary R. Haggard
	Linda Diane Hanes
	Bernice Ann Hausker
	Ruth Ann Herm
	James Arthur Holmes
	*Patricia Kay Hooper
	*Barbara Theresa Hull
	Marquita Marie Husar
	James Bruce Huston
	Dorothy Phyllis Jackson
	Lauren Sue Janawitz
	Diane Powell Johnston
H*	*Mary Zickgraf Johnston
	Gail Marie Kerin
	Carol Ann King
	Paulette Theresa Kirk
	Linda Marie Koza
	Janet Elise Kutub
	*Susan Victoria Lang
	Muriel Rose Lawler
	Linda A. Lester
	Barbara Anne MacDonald
	Linda Irene MacDonald
	*James Burnham Martinek
	Jeralyn Anne Marvin
	Maurine Melinda McCallum
	Karen McLachlan
	Bethany Jean Runciman
	Mehr
	Karen Lynn Menti
	Lily Lun Mui
	Dorothy Alona Murray
	Susan Lynn Newcom
	Nancy Elizabeth Newton
	Susan Eileen Norman
**	*Barbara Jean Nylund

	*Barbara Elaine Oelkers
	Mary Jacqueline Oleson
	Sherie Darlene Pace
	Lynn Marie Paulson
	Karen Y. Pawlick
H*	*Gayle Ann Payne
	Mary Ann Perkins
	Pamela Jean Perranzan
	Beverly Ann Polny
	Mary Elizabeth Ponak
	Jacqueline Ann Prince
	Cynthia Ramseyer Pucci
**	*Paula Marilyn Purgraski
	Thomas Anthony Rau
**	*Betty Jane Reynolds
	Barbara Coe Roberts
	Susan Jane Ryke
	*Anita Sarko
	Donna Jean Seney
	*Carol Jean Shannon
H*	*Linnea Marie Shaw
H*	*Sally Jeanne Shea
	Wendy Lee Shepard
	Juleen Marie Sheridan
	Shirley Ann Spencer
	Pamela Ann Steiner
	Janet Ann Thomas
	Thomas Michael Tiplady
H*	*Kathleen Ann Tubilewicz
	*Tamara Trudy Tuttle
	*Brenda Sue Walker
	Marianne R. Wood
	Linda Ann Woodman
	Jaynet Fouts Workman
	Margaret Lucile Wright
	Betty Lou Yared

	<i>Health, Physical Education and Recreation</i>
	Lawrence M. Bates
	Richard Brent Bois
	Nancy Jo Pardonnet Brown
	Donald Thomas Cox
	*Boni Lou Delp
	Thomas Lee DeSantis
	Orhan Enustun
	Joseph A. Gavel
	Duane Eldon Green
	Pamela Diane Hale
	David Charles Harder
DEGREE OF	
BACHELOR	
OF SCIENCE	

	James Joseph Heiler
	*Charles J. Hetrick
	Timothy Alvin Jahn
	John Nicholas Jordan
	Linda Lou Kenney
	Janice Marie Kent
	David Walter Kolacz
	Alexander Tait MacLaren
	James Joseph Mazel
	Charles Louis Nothstine
	Mary Kathryn Nutter
	*Freddie Kaye Olmsted
	Susan Marie Pierson

	Bruce M. Richardson
	Larry Marshall Scramlin
	Bruce Craig Smith
	Patricia A. Specht
	Paulette Tasker
	Ronald Edwin Warner
	Jerry Ford West
	Candace Ann Whitmore
	<i>Industrial Arts</i>
	John William McEwan
	Louis Charles Oien
	Steven Frank Politowski
	Gary Brian Wendzel

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



# COLLEGE OF COMMUNICATION ARTS

JACK M. BAIN, DEAN

## GRADUATED SUMMER TERM, 1969

DEGREE OF  
MASTER  
OF ARTS

### Advertising

Martin Paul Block  
Pierre Brisebois  
James Donald Culley  
Paul Louis Lutz  
Lindell Martin Ross

### Audiology and Speech Science

Wilma Joyce Baldwin  
Gordon R. Bienvenue  
Mary Eleanor Briggs  
Catherine John Connor  
Nancy Elaine Laidlaw  
Roberta Ann Levine  
Linda Hyde Lucyshyn  
Carol Anne Powell  
Linda Ann Sculthorpe

Cheryl Lee Tessler  
Amelia Bynum Thompson  
Janet Ann Thompson  
Linda May Wiskochil

### Communication

Margaret Elizabeth Curley  
Mitchell Robert Miller  
Robert Harold Moyer  
Peter Guy Northouse  
Lee Alan Schleicher  
William Harold Thueme

### Journalism

Carlos Luis Arias

### Television and Radio

Lyle Reid Cruickshank  
Roger Allen Grant

Keith Clarence Hobbs  
Eugene Francis Jankowski  
Patrick L. McNew  
Eric Scott Miller  
David Wayne Piehl  
Madeline Frances Roche  
Darryl Allen Ross  
Elliot B. Sanderson  
Leigh Trier Stowell  
Paul Woodworth

### Theatre

Robert Michael Casey  
Jill Susan Goldwasser  
Robert Gras  
Peter Worl Landry  
Richard Charles Lavin  
Michael Irwin Oberfield  
Carol A. Whiting

## CANDIDATES — FALL TERM, 1969

DEGREE OF  
MASTER  
OF ARTS

### Advertising

Jack Verville Daniels  
Edward Francis Jesser  
Arthur William Novak  
Mohammad Iqbal Qureshi  
Richard David Theis  
Mantha Stella Vlahos

### Audiology and Speech Science

Kathleen Kriner Millay  
Pamela Sears Riedl  
Ellen Kay Smitley  
Mary Dorothy Wiley

### Communication

Gerald Winn Card  
Donald William Fostle  
Peter Jurgen Jaensch  
Michael William Jorissen  
Karen Josephine Pawlovich  
Parama Satawedin

### Speech and Theatre

Mary Lou J. Meerson  
Robert B. Oldham

### Television and Radio

Richard Paul Brundle  
Bruce Randall Gray  
Jay Withington Johnson  
Philip Willard Keezer  
Julius John Pierman  
Nelda Marian Stuck  
Robert Michael Urich

# COLLEGE OF COMMUNICATION ARTS

## DEGREE OF BACHELOR OF ARTS

### Advertising

James Steven Bamber  
Ludwig Richard Beck  
Leonard Anthony  
Bokuniewicz, Jr.  
William Allen Bultman  
William Fordney Burke  
John Richard Chapman, Jr.  
Douglas L. DeLind  
William Anthony Delsener  
Kenneth Allan DeMunter  
Bennett Parker Dolan  
Richard G. Dunn  
T. Thomas Ellison, II  
Raymond Carl English  
Jeffrey Thomas Frazier  
Douglas Paul Furgerson  
\*\*Diana Lynn Hagopian  
Thomas M. Hankus  
H\*\*Jacqueline Denise Heer  
Randall Jay Hewitt  
Dianne Kay Hoenk  
James Gary Jajich  
Harry S. Koploy  
Donald Austin Kuelbs  
James Albert Listerman  
Terry Robert Livermore  
William Martin Lovik  
Victor Lewis Pannecouk  
Thomas Mac Peters  
Paul Maurice Reardon  
Ronald Joseph Roberts  
Roger L. Taskey  
Donald Louis Wellman  
David Dennis Williams  
Robert Lee Wilson

### Communication

\*Donald Thomas Beck  
Richard James Byrd  
\*Kathleen Gertrude Conway  
\*Richard Reynold Goerz  
William Charles Gross, Jr.  
David James Hindes  
Terry William Kizer  
Marshall George MacFarlane  
Roderick Duane MacKenzie  
Charles Edwin Rose, Jr.  
Patricia Jean Tikkanen  
Andrew F. Trentacosta

### Journalism

John Charles Beauparlant  
Larry Marvin Cole  
John C. Heinritz  
Edward Cleary Hutchison  
Barbara Ann Jones  
H\*\*Linda L. Lewis  
Bonnie Jean Miller  
\*Janet Kay Reber  
Margaret Ethel Rowe  
Jean Carol Warden

### Television and Radio

Matthew Wallace Burns  
Raymond Ciro Carbone  
Thomas Clayton Chapman  
Bernard Edward Cohan  
Kathleen J. Cunningham  
\*Patricia Lynn Hanson  
Mark Allen Ivester  
Charles Ronald Jolley  
Wesley Gene Jones  
Barry Jay Karp  
Gailan Mark Kester  
Tonnie Cheerie Kissee  
Constance Veronica Kurosky  
Robert John Kurtz

William Eugene Lamere  
Larry Michael Larsen  
William Frederic Long, Jr.  
\*Albert Julien Navarro  
\*Kenneth Allen Payne  
\*Arthur Boyden Reis, III  
\*Gary James Rivard  
John Kenneth Schepers  
H\*Gary Lee Steinke  
Thomas Gregory Taylor

### Theatre

\*Mary Carol Kingsley

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

### Audiology and Speech

#### Sciences

Claudia Arrandale Buell  
Sara Elizabeth Chipps  
Janet Ruth Crooch  
Patricia Ann Meredith  
Jacqueline Edwards Kemp  
Jane Caryl Peters  
Deborah Marguerite Quinn  
\*Jane Carol Ruminski

### Communication

Vickie Suzanne McDonald  
\*Kathleen Louise Miller  
Gail Ann Sorensen

### Theatre

\*Jurate Kutkus Burns  
\*Sharon Elizabeth Carlson  
Susan Jane Henderson  
Carol Elaine Jacoby  
Vestus John Spindler, III

# COLLEGE OF ARTS AND LETTERS

PAUL A. VARG, DEAN

## GRADUATED SUMMER TERM, 1969

### DEGREE OF MASTER OF ARTS

#### Art Education

Gaynell Hamelink  
Stephen E. Kober  
Sharon Anne Linnehan  
Patricia Ann Van Dragt

#### Art History

Joy Ann Alexander  
Janice Louise Simpson

#### Art Practice

Judith Claire Bomers  
Joyce Kathleen Groenleer  
Arthur Krauss  
Dianne Polly LaPointe  
Helen Elizabeth McConnell  
Saralee Pearl  
Gerard Charles Penta  
Richard Joseph Wolfgang

#### English

Ruth Evelyn Carleton  
Julie English Early  
Carol Virginia Eilber  
Susan Elaine Gordon  
James William Karas  
Richard Michael Klish  
Lucinda Jane Martin  
Mark Gregory McKeon

#### Christopher Peter McLeod

Jovina Rae Oley  
Barbara Ann Ondrias  
Howard Arthur Shapiro  
Carol Lee Shilkett  
Jeanne Ellen Theodore  
Lucille Miller Thomas  
Peter Edmund Whelan

#### English-Secondary

#### School Teaching

Sheila Anne Ferrari  
Jack L. Finch  
Betty S. Fowler  
Mary Barbara Sells  
Nancy Davies Tuttle

#### French

Faith Lindgren Hanmer  
Charles Elmer Hutchison  
Barbara Anne Morton  
Jean Theresa Strandness

#### German

Rex Craven Dahl  
Roger James Heerspink  
Marianne Friederike Lubkin  
Loretta Bach Rasmussen  
John James Stickler  
John Philip Vance

#### History

Sarah Ellen Alyesworth  
Lynn Penchalk Chard  
David Clinton Hollister  
Steven Elliot Korner  
C. Robert Linne  
Robert T. Morgridge  
Mary Margaret O'Neil  
Linda Eileen Rhodes  
Robert James Richardson  
Richard Joseph Sheahan  
Dennis Walter Thomson  
Diane Eve Wall  
Laird P. Warner

#### Linguistics

Portia Adams Brown  
James Robert Chamberlain  
Robert George Koops

#### Philosophy

Thomas Greylish Callahan  
Stephen David Foulk  
Eugene John Valentine

#### Spanish

JoAnne L. Osborne  
Angela Maria Valle

### DEGREE OF MASTER OF ARTS FOR TEACHERS

#### English

Mary Louis Wasterberg

#### History

John Bradley Schooley  
Hugh Arden Veley

### DEGREE OF MASTER OF FINE ARTS

#### Art Practice

Howard James Alport



# COLLEGE OF ARTS AND LETTERS

DEGREE OF  
MASTER  
OF MUSIC

## Applied Music

Barbara B. Dixon  
Gertrude Ann Huisman  
Judith Ann Pierson

## Music Education

Cleon Austin Beittel, Jr.  
Lillian Irene Bryant

Roger Thomas Cahoon  
James Ronald Dudley  
Carol Jean Fields  
Deborah Allen Gale  
Bonita Lea Graham  
Carol A. Johnson  
Sr. M. Susanne Krupp

J. Michael Loveridge  
Donald Lee Miller  
Joseph Vincent Palazzola  
Leah Jane Smith  
Donna Lee Strukoff  
Angela Margit Von Shill  
Beatrice Marie Webster

## CANDIDATES — FALL TERM, 1969

DEGREE OF  
MASTER  
OF ARTS

## Art Education

Suzanne Cheney

## Art History

Sarah Jo Davis  
Joel Allen Miller  
Mary Faith Mitchell

## English

Jack Helder  
Kenneth A. Howe  
Diane Marie Courtier Lager  
William Rodger Leisher  
Irene H. Stier McKenna  
Margaret T. McMahon  
Eulalia Grace Nabors  
Bob Wyatt Rowland  
Linda R. Volz

## English-Secondary

## School Teaching

Anton W. Chen

## French

Nancy Kay Anspach  
Kathleen Joanne Brahney  
Mary Ellen Brennan  
Katharine Merrell Dennis

## German

Vera Helen Slechtova

## History

Haley Phillip Bamman  
Jacqueline Harper Brown  
Richard E. Buck  
Kathryn Gail Carlson  
Douglas Craig Drake

Catherine B. Ellis  
Arlene Nancy Haddock  
Byron David Moak  
Ann Marie Pung  
Gail Marie Williams

## Linguistics

Theresa McLaughlin  
Al-Azzawi

## Philosophy

Christine Elinor Kales  
Ross John Kales

## Spanish

Humberto Ernesto Beltran  
del Rio G.  
Kazuko Otaki Heslep  
Victoria Ann Mejia  
Anita Wagman

DEGREE OF  
MASTER  
OF MUSIC

## Music Education

Vernon Hans Stromberg

DEGREE OF  
BACHELOR  
OF ARTS

## American Studies

Dale Ralph Griffith

## Art Practice

Susan Hayward Gotshall  
Ronald Irvin Graybiel  
Gregory Alan Mann  
\*Richard Dean Palmer  
Robert Bradley Park  
Donna Jean Ravitz  
Don William Westcott

## English

Linda Goehle Casciotti  
Kerwin Francis Crane  
\*\*Frank Joseph Cusmano  
Edith McFarlane Grahnak  
Thomas David Drinan  
\*Joanne Louise Juhl  
\*\*Susan Miller Lowe  
Nancy Jeanne Slattery

## French

Carol Joyce Ludwig  
Susan Elizabeth  
Vanden Bosch

## History

Suzanne Bebee Campbell  
Carol Ann Gladney  
\*James Daniel Hunsucker  
William John Murnan  
Brenda Lee Pogue  
William Frederick Schmidt  
\*Constan Anthony Spina  
\*William Granger Youatt

## Humanities

Eric Randolph Mowris  
Larry Wayne Neitzert

## Philosophy

\*\*Robert Alan Fishel  
Gary Richard Pachal

## Russian

Olga Helen Kiebler  
Daria N. Schlega

## Spanish

\*Lynne Kathryn Maggio  
Michael William Weber

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

## Art Practice

\*John Ernest Buttner  
Joan Elizabeth Delaney  
Charlotte Katherine  
DeOrlow  
Shirley Ann Dombrowski  
Wendolyn Joy Glanz  
Gaela King Jolly  
Kathleen Marie Jonik  
Elaine Cynthia Pawlik  
James Robert Sawatzki  
Barbara Lynn Sussex

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

## COLLEGE OF ARTS AND LETTERS

### DEGREE OF BACHELOR OF ARTS

#### English

\*Madeleine Adam  
\*Gwendolyn Joyce Buckley  
\*Ellen Louise Chase  
Linda Jean Crichton  
\*Madeline Dodson  
Willi Lamphier Gay  
Shirley Ann Griffith  
Joan Donna Hallberg  
Jimmy Allen Hyslop  
H\*\*Joan Elizabeth Isenbarger  
Roxanne Mackie  
Edwin Eric Martinson  
Constance Anne Miller  
James Donald Neff  
Michael Lee Neiswonger

Kristine Lea Nelson  
Charlotte L. Norton  
\*Nancy Jean Reiss  
Irma Sommer  
Kathleen May Stadelman  
\*Eilene Frances Woodrum

#### French

Darby K. Sjoberg  
\*Gladys Marie Slemmer  
\*\*Sally Lynn Sweitzer

#### German

Julie Ann Duch  
Randall Gary Ochmann  
H\*\*Virginia Louise Young

#### History

Rita Marie Carlson  
Brian Peter Duffy  
Robert Edward Laurie  
Edward Carroll Miller  
Patricia L. Murdock  
Lynn Sue Rose  
Katherine Ann VanLynn  
H\*\*Betty Jean Wernette

#### Russian

H\*\*Cheryl Ann Albig  
Linda Rae Szczomak

### DEGREE OF BACHELOR OF FINE ARTS

#### Art Practice

Susan Elizabeth Budny  
James Charles DeCamp  
Christopher Rex Edick  
Daniel Garab  
Gordon Lynn Gutchess  
Gary Lee Herbert  
William John Kolomyjec  
Paula L. Kravitz  
\*Dennis Martin Lanci  
Geraldine Kay Uhl.

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

#### Art Practice

Vicki Deborah Barnes  
\*Chris Tina Gunderson  
Hedy Louise Gustafson  
\*\*Lawrence Joseph Rengert

### DEGREE OF BACHELOR OF MUSIC

#### Music Therapy

Marion Louise Lukens  
George Anthony Mikicich  
Linda Marie Porter

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

#### School Music

Joseph Paul Brooks  
Marcia Jean Golata

H\*\*Daniel Luther Hornstein  
Sandra Ann Simmons  
Wesley Stephen Smith  
Carolyn Taylor  
Judith Len Walters

# COLLEGE OF NATURAL SCIENCE

RICHARD U. BYERRUM, DEAN

## GRADUATED SUMMER TERM, 1969

### DEGREE OF

### MASTER

### OF ARTS

#### Mathematics

Judith Ann Lachman  
Douglas Frank Nauts  
Frederick Lee Raske  
John Duard Stutsman

### DEGREE OF

### MASTER

### OF ARTS

### FOR TEACHERS

#### Biological Science— Interdepartmental

William Herbert Brown  
Joseph Folcarelli, Jr.  
Carole Lum Riley

#### Chemistry

Gerald Thomas Blair

#### General Science

Carlton Robert Brown  
Stanley James DeJager  
James Alvin Espy, Jr.  
Jack Arlan Vredevoogd  
Lucia Carol Wilcox

#### Geology

Stanley James Miller  
Mary Ann Potter

#### Mathematics

Virgil Wayne Archie  
Larry William Davy  
Jill Ellen Johnson  
Wanda Joy Long  
Lewis Edward Williams

#### Physics

Frederic Ze

### DEGREE OF

### MASTER

### OF SCIENCE

#### Biological Science— Interdepartmental

Sister Margaret Rose Barton  
Meredith Lee Britton  
Thomas Sharp Brown  
Pauline Watson Christian  
Irene Chrusciel  
Dennis Wyman Cole  
Richard Scott Dunham  
Gerald Friday  
Meredith Ann Funk  
Paul K. Gamber  
Kenneth Charles Glenn  
Frances Kennedy Knott  
Sister Linda Ann Olinger  
Janet Rose Perperian  
William E. Richmond  
Barbara Cairns Smith  
Jerry Lee Southland  
Robert Ronald Spencer  
Phillip Leon Stewart

#### Botany

Jerold Lee Grashoff  
Firdaus Rivai

#### Chemistry

Roger William Spoerke  
Terence John Swihart

#### Geology

Paul James Le Anderson

#### Mathematics

Robert Scott Elder III  
Frederick Peter Lawrence  
Victor T. Pastor  
Francis Lynn Severance  
Shyamji Srivastava  
Rogers O'Neil Whitmire

#### Microbiology

Daniel Glen Aitken

#### Physics

Russell Arlen Poch  
Madhav Vasant Walavalkar  
James Anthony Worthey

#### Physiology

Paul Daniel Meier

#### Statistics

Victor T. Pastor

#### Zoology

Charles Edward Broihier

## CANDIDATES — FALL TERM, 1969

### DEGREE OF

### MASTER

### OF ARTS

#### Mathematics

Robert John Ballard



# COLLEGE OF NATURAL SCIENCE

## DEGREE OF

### MASTER

### OF ARTS

### FOR TEACHERS

#### Biological Sciences

Elizabeth New Baker

#### General Science

Ernest George Fischer, II

#### Mathematics

K. Daniel Overton

#### Biological Sciences

Mary Anne Bednarski  
Roger Charles Dunn  
David Lee Egger  
Patricia Ann LaLonde  
Jean M. McPherson  
Robert Benney Peyton  
Jo Ellen Roseman  
Nathan William Shier  
Henry Donald Wiegand, Jr.

#### Uan Gen Kang

Janice Elaine Karoglan  
Richard Alan Leavitt  
Luis J. Matienzo  
Gerald Carl Swanson  
Joseph John Zaborowski

#### Entomology

Harry Richard Hill

#### Geology

Alfred Travers Bloomer  
James Carryl Fisher  
Louis Ruthardt Miller  
Innaiah Pothacamury  
Daniel Gerald Robbins

#### Mathematics

Brenda Shiawmei Lee  
William Dale McConnell  
Walter O. Stüven

#### Microbiology

Virginia Wai Fong Fung  
Robert Fred Hansen  
Ronald William Kelley  
Victoria Millicent Koo  
Elizabeth Florence Nelson  
Nina Clare Runfola

#### Physics

Andrew Irvine Davidson  
Lynne Howard Holley

#### Physiology

Wang-Tsau Chen  
Douglas Bruce McKeag

#### Statistics

Gary Frank Andrus  
Frank George Burianek  
R. Michael Good

#### Zoology

Ronald James Field

## DEGREE OF

### MASTER

### OF SCIENCE

#### Botany

Maria José Pereira da Silva  
Keh-Ming Pan  
John Howard Riggle  
Nguyen Van Thuy, Lic.  
Es.Sc., D.E.S. Sc.

#### Chemistry

William Andrew Bulmer  
Frances Hoyda Jones

## DEGREE OF

### BACHELOR

### OF ARTS

#### Mathematics

James William Stutsman

#### Biochemistry

Robert D. Le Blond  
Jeanna L. Owens  
\*Meade Andrew Perlman

#### Biological Sciences

David Edward Dobbins  
Thomas Edward Hamernik  
Michael Gerard Maroldo  
Soboghana McClendon  
Larry Lynn Sklapsky  
Charles Roy Strom

#### Chemistry

H\* Gail Crosley McGuire

#### Geology

David Michael Bricker  
John Anthony Dunkhase  
\*Barbara Lou Holcomb  
Donald Barker Seavey

#### Mathematics

H\* Robert James Demarco  
Gregory John Janowak

H\* Marty Klein

Kenneth Bruce Kolsom  
Gary Blaine Montross  
Barbara Ann Waychus

## DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

#### Mathematics

Dennis Dale Margoni  
Barbara Louise Mulbarger  
Linda Marie Muoio

#### Nursing

Autumn Lou Ivey

#### Physical Sciences

John Steven Fox  
Wayne Carlton Shanks, III  
\*Richard Carl Wahl

#### Physics

\*David Donald Swinehart

#### Physiology

Georgette Eberling

#### Zoology

Bruce Wilber Becker  
Nancy Jane Elliott  
William Colbeck Gill  
Bonnie Lee Osterhout  
Jeffrey Alan Stickney

## DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

#### Biological Sciences

F. Michael Edgeworth  
Linda Ann Goodwin  
Harold Joseph Greanya

Lee H. Halsted, Jr.  
\*James Edward Hurrell  
Michael Allen Owens  
Barbara Louise Schulz  
Ronald Eugene Wilson

#### Chemistry

Timothy S. Fox  
Benjamin John Lundquist  
Matthew Robert Stefanac

#### Geology

\*Richard Louis Thomas

#### Mathematics

Richard Edward Applin  
James Edward Mathis, Jr.  
Karen Ann Sanderson  
James Charles Shull  
Bruce Edward Sweers  
John Wayne Village

#### Physical Sciences

Roger Keyes Zimmerman

#### Physics

Douglas Roger Boliere

#### Physiology

Norman Robert Goebel

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

# COLLEGE OF SOCIAL SCIENCE

CLARENCE L. WINDER, DEAN

## GRADUATED SUMMER TERM, 1969

DEGREE OF MASTER OF ARTS	<u>Anthropology</u> Rodney Carlos Kirk Herbert L. Whittier Patricia J. Whittier	<u>Political Science</u> Jerrold David Beckman Janet Louise Krulik Kenneth Warren Parent Gary Raymond Rassel Thomas Joseph Sloan Steven Phillip Walker	Audrey Doris Landers Baron Perlman Kenneth Hanley Price Bernard I. Silverman Carol Lynn Zander
	<u>Geography</u> Pauline P. Chan Jean C. Cooper Charles Marc Croner S. David Harrison Judy Ellen Hile Julia Hidegkuti Jones Barbara Joan Kuklinski Melvin Edward McIntire June Ellen Rosencrantz	<u>Psychology</u> George Franklin Bishop Gerald Lewis Borofsky Janet Blomberg Bullock Margaret Rose Rezek Connolly Larry M. Gerstenhaber	<u>Social Science</u> Floyd Andrew Aprill Philip Ballbach John Christopher Ducat Jill Annette Van Deusen
			<u>Sociology</u> James Edward Cherry Harriet Evelyn Tillock José Paulo Vieira
DEGREE OF MASTER OF ARTS FOR TEACHERS	<u>Social Science</u> Charles Dennis Davenport		
DEGREE OF MASTER OF LABOR AND INDUSTRIAL RELATIONS	Larry Robert Cashdollar Marilyn Diane Crane Manuel Martinez Howard William Reed Samuel David Richman James Patrick Ryan, Jr. Mitchell A. Sherr		
DEGREE OF MASTER IN LANDSCAPE ARCHITECTURE	Ronald Lawrence Draft		

## COLLEGE OF SOCIAL SCIENCE

DEGREE OF  
MASTER OF  
PUBLIC  
ADMINISTRATION

Edward Allen Middleton

DEGREE OF  
MASTER  
OF SCIENCE

Police Administration  
and Public Safety  
Granville Joseph Cross  
Bruce William Dally  
Larry Paul DeVries

Paul Sylvester Embert, Jr.  
Timm Gray Engh  
Ronald Mitchell Gray  
Robert Jack Heinlein  
Jack Warren Jorgensen

William Peter Kelly  
Wallace Roland O'Neill  
Ronald Eugene Roush  
Arthur Victor Smith, Jr.

DEGREE OF  
MASTER  
IN URBAN  
PLANNING

Rajendra Keshavlal Mehta  
Stephen Warren Schar  
James Remie Verougstraete

### CANDIDATES — FALL TERM, 1969

DEGREE OF  
MASTER  
OF ARTS

Anthropology  
Charles Luke Boughter  
Margaret Kimball Brown  
Chung-min Chen  
Lizwu Chen  
Richard Dale Clute  
George Arthur Genz

Geography  
Peter Wallace DeForth  
Kenneth Charles Haddock  
Charles Ipcar  
Kwock Chung Loo

Political Science  
Joseph James Barnard  
Julie Caroline Barnard  
Barbara Lynn Chattin  
Lon Slone Felker  
James Michael McCormick  
Aruna Nayyar Michie

Psychology  
Charles Thomas Bennett  
James Justin Cooper  
Leonard James Dasho  
Nancy L. Davidson  
Jack E. Dawson  
Cleason Samuel Dietzel  
Janice Freya Fisher  
Kenneth John Good  
Allen Goodman  
Robert Keith Goodman  
Diane Joy Huisinga  
Diane Elizabeth Johnson  
Gary G. Johnson  
Peter T. Kliejunas  
Gregory T. Loftus  
Gary H. Mendelsohn  
Carmenza Meneses  
David Kirk Michelman  
Harvey R. Oaklander  
Thomas Maurice Rutledge  
M. Joseph Schaller  
Leon Joseph Schofield, Jr.

Susan Marie St. Pierre  
Mary Louise Szari  
Stuart Winston Thomas  
Holly Sue Van Horn  
Earl Donald Walker  
Paul Weisbord  
Kathleen Takako Yamanaka

Social Science  
Dean Armstrong

Sociology  
Margaret Johnson Adams  
William Patrick Boss  
Richard J. Gigliotti  
Edward Harkewicz  
Carolyn Tyirin Kirk  
Margaret M. Plumridge  
Kamutondo Kawala  
Simwanza  
Joan Lea Toms  
Robert Osborne Turley  
George William Walton

DEGREE OF  
MASTER  
OF ARTS  
FOR TEACHERS

Geography  
Nancy K. Peterson  
Jerry Lee Van Pelt



# COLLEGE OF SOCIAL SCIENCE

DEGREE OF  
MASTER OF  
LABOR AND  
INDUSTRIAL  
RELATIONS

Richard Parker Butler  
Larry M. Buys  
Gerard Michael Gomez  
Bernhard Hoffmann  
James Richard Kelly  
William James Lange  
James Douglas Smyth

DEGREE OF  
MASTER IN  
LANDSCAPE  
ARCHITECTURE

David Warren Foster

DEGREE OF  
MASTER  
OF SCIENCE

Police Administration and  
Public Safety  
Abduljalil Al-Saif  
Dennis Dean Deakin

Jeffrey L. Eubank  
Max Kent Hurlbut  
Adam G. Johnson  
Marson Harry Johnson

Lawrence Lewis Miller  
Charles Allen Pierce  
Henry Brainard Risley, Jr.  
Naomi VanDerJagt

DEGREE OF  
MASTER  
IN URBAN  
PLANNING

Genevieve Ann Brune  
Michael Keith Haviland  
Patricia Katherine Hickcox  
Chester Charles Jandzinski  
Robert Ernst Saur  
Richard Wesley Willberg

DEGREE OF  
BACHELOR  
OF ARTS

Political Science  
Barbara Lynn Backman  
Barbara Joyce Campbell  
Frederick Richard Fry  
Kenneth Morris Gavin  
Barbara Ann Grande  
Arthur Augustus Halbisen  
\*Susan Anne Harris  
\*William Francis Linkul  
Daniel Kirk Loncar  
Robert John Ludwig  
Peter Louis Petoskey  
John Willard Sorbet, Jr.  
John Voegeli

Psychology  
Axel William Anderson III  
Sharon Lee Baker  
\*Hugh David Bordinat  
Margaret Ellen DeYoung  
Gloria Jean Garland  
William Orlan Hames II  
Richard Allen Hindley  
Ralph Fenton Kanaar  
Barbara Jean Kelly  
William F. Long  
Frederick William Meyers  
\*Judi Marie Schlottman  
\*Bonnie Juliette Stebbins  
\*\*Elsie Marie Stone

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

Donna Maria Trotter  
H\*\*Jerald Laurence Willbur  
\*\*Michael James Wirt

Social Science  
Martha Alling  
\*Dale Alan Anderson  
Craig Easton Bennett  
Victor Anthony Borejka, Jr.  
Gary Warren Bredahl  
Terrence Patrick Brock  
Charles Whitson Brookes  
\*Grant Francis Burns  
Michael John Curley  
William Franklin Cutler, Jr.  
Lynda Marie Damman  
John Leet Denton  
Robert Lloyd Eicher  
Annette Marie Frederickson  
Frederick Fallon Herter  
Jan Elyse Hughes  
Roger Nolte Ingram  
Jonathon Robert Johnson  
Janet Marie Koehn  
Milena Lynn Krymis  
David Martin Levine  
Michael Richard Mahady  
Richard Paul Manczak  
Thomas Harrison McArdle  
Sharon Meckstroth

Fletcher C. Monningh  
Maureen Donna Moore  
\*Richard Herbert Moore  
Eugene Michael O'Malley  
Richard Thomas O'Reilly,  
Jr.  
Raymond Virgil Ovenhouse  
Christopher William Pasini  
Sharon Ann Rouse  
Roger Allen Schafer  
Arthur O'Dell Sheffey  
Alan Joseph Sist  
Michael Charles Smith  
William Harvey Van  
Dusen, Jr.  
James Curtis Welch

Social Work  
David Leonard Bair  
William Allan Boersema  
Lorna Sue Campbell  
Dorothy Lou Conley  
\*Patricia Anne Sherwood  
Cutler  
Edward Ernest Frey, Jr.  
Sandra May Hatfield  
Janice D. Basso Kennedy  
Susan Elizabeth Kramer  
Linda Martha Lemon  
Kathleen Marie Lienhart

## COLLEGE OF SOCIAL SCIENCE

### DEGREE OF BACHELOR OF ARTS

Kaye Margaret McGuire  
Martha Fant Munch  
Charlene Mae Romska  
H\*\* Mary Ann Roost  
Linda Louise Sullivan

#### Sociology

Gary Gene Adams  
Connie Dew  
Gaylon Harrel Riddle

#### Geography

Paul John Challancin  
Jeffrey William Pryor

#### Landscape Architecture

Alan Beck Almy  
Kenneth Lee Davidson  
William Ernest Wenk

#### Police Administration and

#### Public Safety

Robert S. Aguirre  
Ross Haven Bishop  
Stephen Robert Cerutti  
James Carl Collins

H\*\* Ronald Charles Emerson  
Ronald Michael Golota  
Gregory John Gorman  
Allen Don Hartwig  
Douglas Edwin Humphrey  
\* Gregory Joseph Kershul  
Michael John Leverenz  
Dennis Harry Morse  
Patrick Henry Murray  
Jerry Alex Nugent  
James Richard Snody, Jr.  
Terry James Swick  
\*\* Larry Douglas Tremain

#### Political Science

Douglas Kenneth Ott  
Janice Kay Stefanovich

#### Psychology

David Lawrence Beam  
Gary Lawrence Brown  
\* Daniel J. Chisholm  
Douglas Lester Curry  
Peter Stephen Czachor  
Michael V. DalPonte  
Thomas Herbert  
Dangremond  
Roy Thomas Freedman  
James Robert Frew, Jr.  
Frederick Eugene Gottshalk  
\* Raymond Joseph Heriford  
John Anthony Jerome  
Kenneth Lorenzo Keyes

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

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION

#### Geography

Alan LaVern Donaldson  
Roger Thomas Merchant

#### Social Science

Mary Brooke Anderson  
Robert Wayne Aubin  
June Marie Babcock  
Pamela Jane Carpenter  
Gary Lynn Compton  
Myra Jean Dock  
John O. Draganchuk

John A. Lord  
Paul David Markoff  
Sherry Marie Maslowski  
\* Raymond Allen Merriman  
Daniel Roger Moga  
Mary Ellen Nivison  
Bruce Gregory Olson  
John W. Russell  
Mary Windsor Stone  
Karen Ann Treberg  
\* Ina L. Whitney  
\* Mark W. Wickson  
Frank Anthony Zaski  
Elaine Huffman Zenti

#### Social Science

Wesley Benner  
Marshall Leigh Blau  
Lorenzo Darian Bucalos  
Frederick Gilbert  
Buckhalter III  
Kay Stow Church  
James Kenneth Claus  
Gregory Dale Cook  
Nicholas F. Cortese  
Charles Clay Cullen  
Nancy Jo D'Archangel  
David Alan Diesing  
Daniel Benedict Droski  
Richard Earl Gullett  
Daniel Dean Hakes  
Robert Tennyson Hall  
Dale Carl Herscher  
Robert Walter Hewett  
Frederick Maurice High II  
Larry David Hoffman  
Thomas Michael Hurja  
Joanne Hollander Johnson  
\* Ronald Walter Junttonen  
Thomas Edward Kaminski  
\* Richard Allen Kapanka  
Fredric Dennis Kohler  
Jack Stuart Kousin  
Roger Dale Landvoy  
Mark Edward Lefevre  
\* Allen Ray Lewis  
Gerald Frederick Materka  
John Michael Morrison  
Thomas J. Myl

Jerry Leon Gillett  
\* Leslie Louise Haas  
Karen Marlene Hirsch  
\* Joan Mary Jedele  
Russell Henry Johnston  
Carol Susan Kaunisto  
Lynne Vanche Kluck  
Cynthia Vay Lambert  
Roland James MacEachran  
Nancy Sue Parkin  
Roger Lynn Pearson  
John Frederick Raap, Jr.  
Robert James Richmond  
Sharon A. Rouse  
Donna E. Six  
H\*\* Sue Ann Willson  
Suzanne Eleanor Zuidema

Alan A. Nye  
Donald Michael O'Hara  
Richard Earl Olmstead  
Francis John Pelczarski  
Richard Beebe Pratt, Jr.  
Dennis Wayne Radel  
Gregory Eugene Rice  
Robert D. Riske  
Robert Earl Robinson  
Paul F. Russell  
Stephen Edward Sheridan  
John Robert Speeter  
Neil Barry Sporn  
Michael Francis Trame  
Robert Ray Tully  
Robert Lewis Voiers  
Leslie Alan Weingarden  
William Richard Weiss  
Robert Edward Wells  
Grovner Leon Willer  
Dugald E. Wilson, III  
Jack Mark Yost

#### Sociology

Sylvester Cole, Jr.  
Lois Yvonne McWherter  
Robert Charles Steinman

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JOINTLY WITH THE  
COLLEGE OF EDUCATION

#### Geography

Dennis Kenelm Hausker

#### Social Science

Robert Wesley Bogert  
Jay Mayer Cohodes  
Kathleen Marie Cruice  
Frank Norton Day  
Michael Jay Gippert  
Regina Ann Iott  
Arthur Lloyd MacNee  
Craig Allen Miller  
Richard H. Moore  
Gary John Rossio  
Gladys Ann Schaub  
\* Ronald T. Sturmer

# JUSTIN S. MORRILL COLLEGE

D. GORDON ROHMAN, DEAN

DEGREE OF  
BACHELOR  
OF ARTS

Janice Marie Bleil  
\*Carol Louise Maines  
H\*\*Jeanne Cay Marsh  
Karla Mae Meyer

Richard Walter Mines  
\*Victoria Sexton Springer  
Michael J. Turkelson

DEGREE RECOMMENDED  
JOINTLY WITH THE  
COLLEGE OF EDUCATION  
\*Karen Lee Lako

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



# COLLEGE OF HUMAN MEDICINE

ANDREW D. HUNT, JR., DEAN

GRADUATED SUMMER TERM, 1969

DEGREE OF  
MASTER  
OF SCIENCE

Anatomy  
Joan Yoon

CANDIDATES — FALL TERM, 1969

DEGREE OF  
BACHELOR  
OF SCIENCE

Human Medicine  
Charles Hugh McManus

Medical Technology  
Laurie Wainwright Dunlap

# 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

John Floyd Hunt

James Gary Jajich

## MILITARY SCIENCE

### Armor

Lawrence James Avery  
\*Alan Doyle Bell  
Robert LeRoy Cross, Jr.  
Michael John Curley  
\*Brian Peter Duffy

### Artillery

Thomas Lee DeSantis  
\*Marshall George MacFarlane

### Corps of Engineers

Joseph James Fleury

### Infantry

Bernard Michael Bullard  
Gary Thomas Hayes  
James Charles Shull

### Military Intelligence

Stephen Robert Cerutti  
Peter Louis Petoskey  
Daniel Edward Speasmaker

### Military Police Corps

Gregory Joseph Kershul

### Quartermaster Corps

\*Roger Thomas Murphy

### Signal Corps

Marvin Louis Andringa

### Transportation Corps

Charles Louis Nothstine

\* Distinguished Graduates