

UA 1311
December

MICHIGAN STATE UNIVERSITY
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UNIVERSITY ARCHIVES
HISTORICAL COLLECTIONS



COMMENCEMENT 1971

MICHIGAN STATE UNIVERSITY

THE COMMENCEMENT COMMITTEE

HERMAN L. KING, *Chairman*

MADISON KUHN

DONNA BROCK
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JOHN G. LAETZ

LLOYD R. CHAMPION

SUE MOEHRING
Student Representative

EVERETT R. EMINO

MILTON E. MUELDER

HORACE C. KING

KERMIT H. SMITH

DIPLOMAS WILL BE AVAILABLE FOR PICKUP AS FOLLOWS:

Advanced Graduate degreesbeginning Dec. 20—Room 150 Hannah Administration Building
Master degreesbeginning Jan. 3—Room 150 Hannah Administration Building
Bachelor degreesbeginning Jan. 10—Room 50 Hannah Administration Building

Diplomas will be released only to the degree recipients upon presentation of identification.
Diplomas not picked up by Feb. 1 will be mailed.



COMMENCEMENT 1971

Saturday, December 4

University Auditorium, East Lansing

Conferral of Graduate Degrees, 10 A.M.

Conferral of Baccalaureate Degrees, 3 P.M.

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 PATRICIA CARRIGAN	<i>Ann Arbor</i>
THE HONORABLE FRANK HARTMAN	<i>Flint</i>
THE HONORABLE WARREN M. HUFF	<i>Plymouth</i>
THE HONORABLE BLANCHE MARTIN	<i>East Lansing</i>
THE HONORABLE FRANK MERRIMAN	<i>Deckerville</i>
THE HONORABLE DON STEVENS	<i>Okemos</i>
THE HONORABLE KENNETH W. THOMPSON	<i>Grand Rapids</i>
THE HONORABLE CLAIR WHITE	<i>Bay City</i>

CLIFTON R. WHARTON, JR., <i>Ex Officio, President</i>	<i>East Lansing</i>
JACK BRESLIN, <i>Secretary</i>	<i>East Lansing</i>
ROGER WILKINSON, <i>Treasurer</i>	<i>Okemos</i>

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. Doctor's 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	<i>Maize</i>
Forest Products, Forestry, Packaging	<i>Russet</i>
COLLEGE OF ARTS AND LETTERS	<i>White</i>
Music	<i>Pink</i>
Philosophy	<i>Navy Blue</i>
COLLEGE OF BUSINESS	<i>Drab</i>
Economics	<i>Copper</i>
COLLEGE OF COMMUNICATION ARTS	<i>Royal Blue</i>
Journalism	<i>Crimson</i>
Speech	<i>Silver Gray</i>
COLLEGE OF EDUCATION	<i>Light Blue</i>
COLLEGE OF ENGINEERING	<i>Orange</i>

COLLEGE OF HUMAN ECOLOGY	<i>Maroon</i>
COLLEGE OF HUMAN MEDICINE	<i>Green</i>
JAMES MADISON COLLEGE	<i>Citron</i>
JUSTIN MORRILL COLLEGE	<i>White</i>
LYMAN BRIGGS COLLEGE	<i>Golden Yellow</i>
COLLEGE OF NATURAL SCIENCE	<i>Golden Yellow</i>
Nursing	<i>Apricot</i>
COLLEGE OF OSTEOPATHIC MEDICINE	<i>Green</i>
COLLEGE OF SOCIAL SCIENCE	<i>Citron</i>
COLLEGE OF VETERINARY MEDICINE	<i>Dark Gray</i>

ORDER OF CEREMONIES

Graduate Degrees

PROCESSIONAL

The MSU Symphonic Band, DR. KENNETH BLOOMQUIST, *Director*

AMERICA.....*Smith*

(The Band and Audience)

PRAYER

DR. ROBERT ANDERSON

Chairman, Department of Religion, MSU

COMMENTS

DR. KULLERVO LOUHI

Dean, College of Business

SPECIAL MUSIC

FANTASY ON MSU SONGS*Curnow*

CONFERRING OF DEGREES

CLIFTON R. WHARTON, JR., M.A., Ph.D.

President, Michigan State University

ALMA MATER.....*Traynor*

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

(The Band and Audience)

PRAYER

DR. ANDERSON

RECESSIONAL

The MSU Symphonic Band

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

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

ORDER OF CEREMONIES

Baccalaureate Degrees

PROCESSIONAL

The MSU Symphonic Band, DR. KENNETH BLOOMQUIST, *Director*

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

PRAYER

DR. ROBERT ANDERSON
Chairman, Department of Religion, MSU

ADDRESS

JOHN KENNETH GALBRAITH, M.S., Ph.D.
Paul M. Warburg Professor of Economics, Harvard University

SPECIAL MUSIC

FANTASY ON MSU SONGS*Curnow*

CONFERRING OF DEGREES

CLIFTON R. WHARTON, JR., M.A., Ph.D.
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PRAYER

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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 117th year, Michigan State has grown from three buildings and six faculty members to one of the largest universities in the nation. It has more than 3,000 staff members engaged in teaching, research and public service, 428 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 16 colleges — Agriculture and Natural Resources, Arts and Letters, Business, Communication Arts, Education, Engineering, Human Ecology, Human Medicine, James Madison, Justin S. Morrill, Lyman J. Briggs, Natural Science, Osteopathic Medicine, 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. Michigan State University also is a prominent sponsor of the National Merit Scholarship Program, comprised of an unusually select group of scholars.

One of the 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 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.

Today, more than 41,000 students attend the University at East Lansing. About 85 percent are from Michigan, representing every section of the state. Students also come from every state in the nation and 83 foreign countries.

MICHIGAN STATE UNIVERSITY

(continued)

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 process. The University's research tools include the Control Data 3600 and 6500 computers, a 50-million-volt cyclotron, and the MSU Observatory which houses a three-ton, 24-inch reflecting telescope. Modern facilities include the following buildings: chemistry, biochemistry, psychology research, veterinary medicine, plant science research, natural resources, food science, pesticide research, and Life Sciences I.

Through an agreement with the Atomic Energy Commission, MSU has become a national center for basic research on plants and their reactions to radiation; involved is a \$2 million building, a staff of approximately 90 persons and an annual budget of approximately \$1 million.

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 educational 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

JOHN KENNETH GALBRAITH

As an economist, educator and author, you have had a deep and far-reaching influence on the study of social and economic life in America. In your many books dealing with the system of American capitalism, you have combined the virtues of meticulous scholarship and original insight to illuminate our economic history. During your many years at Harvard University you have acquired an enviable reputation as a teacher with wide learning and much wisdom. In addition to your books and lectures concerned with the economic problems of our times, you have written authoritative studies of such varied topics as the Scotch people and the art of India. You have made notable contributions to government and public service, particularly as the U. S. Ambassador to India, a sensitive assignment in which you displayed the finest qualities of diplomacy and leadership. In all of your endeavors you have shown the compassion of a man deeply concerned with human welfare. Because of your unusual accomplishments and your continuing dedication to the principles of liberal democracy and humane values in the modern world, Michigan State University is pleased to grant you the degree of Doctor of Laws.

AUGUST SCHOLLE

Your progress from a youthful apprentice, leaving school at the age of sixteen to work in a glass factory, to the presidency of the Michigan AFL-CIO has been a living example of the achievements which are possible for men of great faith and determination. Among your many activities you founded the first CIO Industrial Union Council in Toledo in 1936, and the following year John L. Lewis appointed you as that union's Regional Director for Michigan and Northwestern Ohio, a post you held until 1954. In those endeavors, and as President of the state's AFL-CIO from 1955 until your retirement this year, your leadership was marked by integrity and clear vision. You have participated extensively in public service, especially as a delegate to the Michigan Constitutional Convention, as chairman of the Michigan Natural Resources Commission, and as a member of numerous boards and commissions dealing with workmen's compensation, the reapportionment of state legislatures, and Michigan's economic development. Your wisdom and knowledge have been sought on many occasions by advisory and study committees in our state colleges and universities. Because of the significant contributions which you have made to conservation and civic affairs, and to the economic and social advancement of the common men and women of America, Michigan State University is pleased to grant you the degree of Doctor of Laws.

HONORARY DEGREES

NEIL W. STUART

In the four decades since your graduation from this institution, you have fashioned a notable career as a plant physiologist. Through the imaginative application of your deep knowledge of horticulture and agricultural chemistry, you have made many valuable contributions to the development of American floriculture. Your studies of the biochemical and structural changes in the growth of ornamental plants have revolutionized the commercial cultivation of floral crops. As a physiologist with the U. S. Department of Agriculture, your experiments with mineral nutrition and the chemistry of water, substrates and nutrient salts have enabled you to solve obscure problems in soilless culture. Because of these and other successful ventures, your colleagues have honored you in important ways, including your election as President of the American Society for Horticultural Science. In recognition of your distinguished career and the credit it reflects on this institution, and because of your life-long devotion to the esthetic values of our human environment, Michigan State University is pleased to grant you the degree of Doctor of Science.

THE CANDIDATES FOR DEGREES

1971 CLASS ROSTER

This includes the names of candidates for degrees as of the close of the 1971 Fall term, as well as the names of the recipients of the Doctoral and Master degrees at the close of the 1971 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, 1971

ALLAN JOSEPH ABEDOR, Ph.D.

B.A., University of California; M.A., Michigan State University.
Education. Major Professor: Paul W. F. Witt, Professor.
Thesis: Development and Validation of a Model Explicating the Formative Evaluation Process for Multi-Media, Self-Instructional Learning Systems.

ELSA DELIA ALVAREZ, Ph.D.

Ph.D., Universidad Nacional.
Spanish, Language and Literature. Major Professor: Julia Uceda Palacios, Professor.
Thesis: La Obra De Ramón Sender (Estudio De Los Personajes Femeninos).

JOHN CARL ARCHBOLD, Ph.D.

B.A., Kalamazoo College; M.A., University of Michigan.
Geography. Major Professor: Daniel Jacobson, Professor.
Thesis: A Recreational Geography of Salton Sea, California.

JAMES ARCHER, JR., Ph.D.

B.A., University of Rochester; M.A., San Francisco State College.
Education. Major Professor: Norman I. Kagan, Professor.
Thesis: Undergraduates as Paraprofessional Leaders of Interpersonal Communication Skills Training Groups Using An Integrated IPR (Interpersonal Process Recall) Videotape Feedback/Affect Simulation Training Model.

CARL G. ARENDSSEN, Ph.D.

B.A., M.A., Western Michigan University.
Education. Major Professor: William M. Fitzgerald, Professor.
Thesis: A Use of Audio-Tutorial Techniques in Arithmetic For a Remedial College Algebra Class.

H. J. MICHAEL AUER, JR., Ph.D.

B.A., Harvard University; M.A., Eastern Michigan University.
Education. Major Professor: Wilbur B. Brookover, Professor.
Thesis: Self-Concept of Academic Ability of West German Eighth-Grade Students.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

KULJIT SINGH BAJAJ, Ph.D.

B.S., Punjab University; M.S., University of Toronto.
Systems Science. Major Professor: James A. Resh, Associate Professor.
Thesis: Cauchy Type Integral Representations for Network Functions.

JERRY ALLEN BARENDRECHT, Ph.D.

B.S., M.S., Michigan State University.
Mechanical Engineering. Major Professor: William N. Sharpe, Jr., Associate Professor.
Thesis: The Effect of Biaxial Loading on the Critical Resolved Shear Stress of Zinc Single Crystals.

DENNIS W. BATTAGLINI, Ph.D.

B.S.Ed., California State College; M.A.T., Michigan State University.
Education. Major Professor: T. Wayne Taylor, Professor.
Thesis: An Experimental Study of the Science Curriculum Improvement Study Involving Fourth Graders' Ability to Understand Concepts of Relative Position and Motion Using the Planetarium as a Testing Device.

FREDERICK GEORGE BEAN, Ph.D.

B.S.E., University of Michigan; M.B.A., Michigan State University.
Business Administration (Marketing). Major Professor: Richard J. Lewis, Professor.
Thesis: An Analysis of Merchant Wholesaler Consumer Good Commodity Line Distribution Channels.

RICHARD ALLEN BEDNAR, Ph.D.

B.S., M.S., University of Nebraska.
Electrical Engineering. Major Professors: John B. Kreer, Professor; Israel Korn, Visiting Assistant Professor.
Thesis: Time-Optimal Control of Multiple Input Linear Sampled-Data Systems.

DONALD B. BEERE, Ph.D.

B.A., University of California; M.A., California State College.
Psychology. Major Professor: Dozier W. Thornton, Associate Professor.
Thesis: Systematic Desensitization and Imagination: A Test of London's Cognitive Integration of Behavior Therapies.

BOB DUANE BLEASDELL, Ph.D.

B.S., Portland State University.
Chemistry. Major Professor: Christie G. Enke, Associate Professor.
Thesis: Film Formation Reaction Kinetics of the Silver Halides.

ARTHUR IVAN BOONE, Ph.D.

A.B., Virginia State College; M.S., Indiana University.
Education. Major Professor: Paul W. F. Witt, Professor.
Thesis: The Influence of Voice Distinguishability on Source Credibility.

PHILLIP EUGENE BROMLEY, Ph.D.

B.S., M.A., Eastern Michigan University.
Education. Major Professor: Troy L. Stearns, Professor.
Thesis: A Comparative Study of Change in Attitude and Openness Between Students in Regular Michigan State University Education 200 Course (*Individual and the School*) and Those Who Participated in the Teacher-Assistant Program in Addition to Education 200.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

- CHARLES FRANKLIN BROWN, Ph.D. B.S., Tennessee Technical University; M.S., Michigan State University.
Mathematics. Major Professor: Joseph Adney, Professor.
Thesis: Automorphisms of Integral Group Rings.
- ORCHID L. BROWN, Ph.D. B.A., Fisk University; M.S., Atlanta University.
Education. Major Professor: Eldon R. Nonnamaker, Professor.
Thesis: A Comparative Study of Black Freshmen Special Admit Students and Regular Admit Students at Michigan State University.
- LEON FREDERICK BURRELL, Ph.D. B.S., M.A., Michigan State University.
Education. Major Professor: Vandel C. Johnson, Professor.
Thesis: Non-Academic Variables as They Relate to Academic Achievement of Male Black Doctoral Candidates.
- DONALD WILLIAM BUSHMAN, Ph.D. B.S., Illinois Institute of Technology.
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.
Thesis: Conformational Analysis of Substituted Phenylacetaldehydes by Nuclear Magnetic Resonance Spectroscopy.
- MARVIN EDWIN CAMBURN, Ph.D. B.A., Albion College; M.A., University of Detroit.
Mathematics. Major Professor: Marvin L. Tomber, Professor.
Thesis: Local Jordan Algebras.
- JOSEPH SAMUEL CARDARELLI, Ph.D. B.S., Muhlenberg College.
Chemistry. Major Professor: Richard S. Nicholson, Associate Professor.
Thesis: A Computerized Digital Data Acquisition System for Electrochemical Experiments.
- RICHARD DEAN CARTER, Ph.D. B.S., Eastern Illinois University; M.Ed., Wisconsin State University.
Education. Major Professor: Vandel C. Johnson, Professor.
Thesis: A Study of Prior Commitment, Dissonance, and Attitude Change.
- RONALD LEON CARTER, Ph.D. B.S., M.S., Iowa State University.
Physics. Major Professor: Frank J. Blatt, Professor.
Thesis: Electrical Resistivity of Aluminum Alloys at Low Temperatures.
- WILLIAM GEORGE CHANG, Ph.D. B.S., University of Maryland; M.S., Michigan State University.
Mathematics. Major Professor: John J. Masterson, Associate Professor.
Thesis: Structure Spaces in Vector Lattices.
- RODNEY J. CHESSE, Ph.D. B.S.I.E., General Motors Institute; M.B.A., Indiana University.
Business Administration (Management). Major Professor: Henry Tosi, Associate Professor.
Thesis: MBO as a Behavioral System: A Focus on Change Relationships and Inferences of Causality.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

EDWARD GEORGE CODDING, Ph.D.

B.S., Central Michigan University.
Chemistry. Major Professor: Richard H. Schwendeman, Professor.
Thesis: Studies of Trans-Vinylcyclopropane, Methylidifluorophosphine, and Methoxydifluorophosphine by Molecular Rotational Spectroscopy.

JILL WILSON COHN, Ph.D.

B.A., M.A., University of Michigan.
English. Major Professor: Russel B. Nye, Professor.
Thesis: The Short Fiction of Washington Irving.

GEORGE ABBOTT COLBURN, Ph.D.

B.A., Aquinas College; M.A., Michigan State University.
History. Major Professor: Thomas L. Bushell, Associate Professor.
Thesis: T. M. Healy and the Irish Home Rule Movement — 1877-1886.

JOHNNIE B. COLLINS, Ph.D.

B.S., Alcorn Agricultural & Mechanical College; M.S., Michigan State University.
Soil Science. Major Professor: Eugene P. Whiteside, Professor.
Thesis: Characteristics of Spodosols Developed on a Sandy Topo-Biosequence in Northern Michigan.

KEITH MILES COLLINS, Ph.D.

B.E., Wisconsin State University; M.S., Winona State College.
Education. Major Professor: Charles F. Schuller, Professor.
Thesis: The Effects of Repetition of Verbal and Pictorial Images Upon the Achievement of Second Grade Students in Learning to Spell Object Words.

JOHN JOSEPH CONTRENI, Ph.D.

B.A., St. Vincent College; M.A., Michigan State University.
History. Major Professor: Richard E. Sullivan, Professor.
Thesis: The School of Laon From 850 to 930: Its Manuscripts and Masters.

OTHA P. COX, JR., Ph.D.

B.S., North Carolina Agricultural and Technical College; M.Ed., University of Buffalo.
Education. Major Professor: Max R. Raines, Professor.
Thesis: A Comparative Analysis of Self-Perceived Roles of Black and Non-Black Administrators in Predominantly White Institutions of Higher Education.

EARL JOHN CRAIGHILL, Ph.D.

B.S., Carroll College; M.S., Montana State University.
Electrical Engineering. Major Professor: William L. Kilmer, Professor.
Thesis: Automatic Speech Recognition Based on a New Segmentation Procedure.

RONALD JAMES CROSSLAND, Ph.D.

B.S., Central Michigan University; M.A., Michigan State University.
Education. Major Professor: Eldon R. Nonnamaker, Professor.
Thesis: Role Expectations for Chief Administrators of Community Services Programs in Selected Community Colleges in the United States.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

- KAI KIE DAI, Ph.D. B.S., University of Alaska; M.A., Eastern Tennessee State University. Mathematics. Major Professor: Ronald C. O'Neill, Associate Professor. Thesis: Torsion in H-spaces of Low Rank.
- FRANK WHITE DAVIS, JR., Ph.D. B.S., Virginia Polytechnic Institute; M.B.A., Brigham Young University. Business Administration (Transportation). Major Professor: Frank H. Mossman, Professor. Thesis: The Determination of the Role of Bus Transit in the University Environment: A Case Study of Michigan State University.
- XAVIER ANTONIO DEL BUONO, Ph.D. B.A., San Jose State College. Education. Major Professor: Stanley E. Hecker, Professor. Thesis: The Relationship of Bilingual/Bicultural Instruction to School Achievement and Self-Concept of Seventh Grade Mexican-American Students.
- ROBERT F. DENDY, Ph.D. B.A., M.A., Michigan State University. Education. Major Professor: Norman I. Kagan, Professor. Thesis: A Model for the Training of Undergraduate Residence Hall Assistants as Paraprofessional Counselors Using Videotape Techniques and Interpersonal Process Recall (IPR).
- RAYMOND EDWIN DOEBLER, Ph.D. B.A., Cornell University. Chemistry. Major Professor: William C. McHarris, Professor. Thesis: Gamma Ray Spectroscopic Studies of States in Neutron-Deficient Pb and Tl Isotopes.
- RICHARD LEROY DOTY, Ph.D. B.S., Colorado State University; M.A., San Jose State College. Psychology. Major Professor: Ralph L. Levine, Associate Professor. Thesis: Homospecific and Heterospecific Odor Preferences in Sexually-Naive Peromyscus Maniculatus Bairdi and Peromyscus Leucopus Noveboracensis.
- JOHN DOW, JR., Ph.D. B.S., M.S., Indiana State University. Education. Major Professor: Samuel A. Moore, II, Professor. Thesis: A Comparative Study of Inner-City Elementary Teachers' and Principals' Perceptions of and Role Expectations for the Leadership Behavior of Selected Inner-City Elementary Principals.
- CHRISTOPHER PAUL EGAN, Ph.D. B.A., State University of New York; M.S., Michigan State University. Geology. Major Professor: Maynard M. Miller, Professor. Thesis: Contribution to the Late Neoglacial History of the Lynn Canal and Taku Valley Sector of the Alaskan Boundary Range.
- DOHA ABDEL RAHMAN ELGIDAILY, Ph.D. B.S., Cairo Higher Institute of Home Economics; M.S., Michigan State University. Home Management. Major Professor: Frances M. Magrabi, Professor. Thesis: Time Orientation and Activity Pattern of Selected Homemakers.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

BRIAN RICHARD ENOS, Ph.D.

A.B., M.S., Miami University.
Education. Major Professor: Eldon R. Nonnamaker, Professor.
Thesis: An Examination of Michigan State University Faculty and Academic Administrators' Opinions Regarding Undergraduate Student Involvement in Selected Academic Decision-Making Matters.

RONALD HARVEY ERLICH, Ph.D.

B.A., Wayne State University.
Chemistry. Major Professor: Alexander I. Popov, Professor.
Thesis: A Study of the Physicochemical Properties of the Tetrazoles and an Investigation of Ionic Interactions by Sodium-23 Nuclear Magnetic Resonance.

PETER ARTHUR FACIONE, Ph.D.

B.A., Sacred Heart College; M.A., Michigan State University.
Philosophy. Major Professor: Herbert E. Hendry, Associate Professor.
Thesis: The Theory of Meaning as Intention.

SIDNEY FAGAN, Ph.D.

B.A., University of Connecticut; M.S., Ed.S., University of Bridgeport.
Education. Major Professor: T. Wayne Taylor, Professor.
Thesis: An Investigation of the Effect of Teaching Strategies on Cognitive and Affective Responses of Pre-Service Teachers Toward Computers.

ARLO WADE FAST, Ph.D.

B.S., Michigan State University; M.S., San Diego State College.
Fisheries and Wildlife. Major Professor: Robert C. Ball, Professor.
Thesis: The Effects of Artificial Aeration on Lake Ecology.

RONALD JAMES FIELD, Ph.D.

B.S., M.S., Michigan State University.
Zoology. Major Professor: Rollin H. Baker, Professor.
Thesis: The Use of Sexual Attractant Pheromones to Increase the Acceptability of the Male Chemosterilant 3-Chloro-1,2-Propanediol by Wild Norway Rats (*Rattus Norvegicus*).

CHARLES RUSSELL FOURTNER, Ph.D.

B.A., Carroll College; M.S., Michigan State University.
Zoology. Major Professor: Ralph A. Pax, Associate Professor.
Thesis: Morphological and Physiological Studies of the Walking Leg Muscles of the Horseshoe Crab, *Limulus Polyphemus* (Linnaeus).

DAVID ALLAN FRISBIE, Ph.D.

B.S., Wisconsin State University; M.A., Michigan State University.
Education. Major Professor: Robert L. Ebel, Professor.
Thesis: Comparative Reliabilities and Validities of True-False and Multiple Choice Tests.

LAVON BUSTER FULWILER, Ph.D.

B.A., M.A., North Texas State University.
English. Major Professor: John A. Yunck, Professor.
Thesis: Image Progressions in Chaucer's Poetry: Exposition of a Theory of Creativity.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

DENNIS E. GALLUS, Ph.D.

B.S., University of Detroit; M.S., Michigan State University.
Physics. Major Professor: Edward H. Carlson, Associate Professor.
Thesis: The Transferred Hyperfine Effect in ErCl_3 .

JOHN BYRON GIBSON, Ph.D.

B.A., M.A., Western Michigan University.
Mathematics. Major Professor: Gerald D. Taylor, Professor.
Thesis: Optimal Starting Approximations for Iterative Schemes From Classes of Rational Functions.

GREGG CARL GIESLER, Ph.D.

B.S., University of Illinois.
Chemistry. Major Professor: William C. McHarris, Professor.
Thesis: Nuclear Spectroscopic Studies of Some Short-Lived and Neutron Deficient Ga and Zn Isotopes.

RONALD WILLIAM GOLES, Ph.D.

B.S., University of Illinois.
Chemistry. Major Professor: William C. McHarris, Professor.
Thesis: The (p, t) Reaction on Rare Earth Nuclei.

KENNETH ROGER GREENE, Ph.D.

B.A., Tufts University; M.A., Michigan State University.
Political Science. Major Professor: Bryan T. Downes, Associate Professor.
Thesis: Black Demands for Open Housing: The Responses of Three City Governments.

GARY MICHAEL GRIKSCHETT, Ph.D.

A.B., Harvard University; M.B.A., University of Michigan.
Business Administration (Marketing). Major Professor: William J. E. Crissy, Professor.
Thesis: An Investigation of the Ability of Salesmen to Monitor Feedback.

BHOLA NATH GUPTA, Ph.D.

B.V.Sc., A.H., Bihar Veterinary College; M.S., Michigan State University.
Pathology. Major Professor: Robert F. Langham, Professor.
Thesis: Physical and Chemical Responses of Mammary Gland to Endotoxin.

RONALD ALLEN HAGER, Ph.D.

B.S., Wittenberg University; M.Ed., Miami University.
Education. Major Professor: William W. Joyce, Associate Professor.
Thesis: Transfer Effects of "Man: A Course of Study" (MACOS) To Other Elementary School Subjects.

ALLAN STEWART HAMILL, Ph.D.

B.Sc., M.Sc., University of Guelph.
Crop Science. Major Professor: Donald Penner, Associate Professor.
Thesis: Bases for the Interaction of Alachlor, Butylate or Chlorbromuron with Carbofuran on Barley and Corn.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

PETER TODD HAMPTON, Ph.D.

B.A., The Ohio State University; M.A., Michigan State University.
Psychology. Major Professor: Donald L. Grummon, Professor.
Thesis: Systematic Desensitization, Flooding, and Relaxation Training as Treatments for Test Anxiety.

JAMES JOSEPH HARPSTRITE, Ph.D.

B.A., Colorado University; M.A., University of Hawaii.
Education. Major Professor: Dale V. Alam, Associate Professor.
Thesis: An Analysis of Selected Simulation Games and the Assessment of the Subjective Feelings of Students and Teachers Who Use Simulation Games in Social Studies Instruction.

JAMES XAVIER HARTMANN, Ph.D.

B.S., Aquinas College; M.S., Michigan State University.
Botany and Plant Pathology. Major Professor: Harry H. Murakishi, Professor.
Thesis: Electron Microscopy of Tobacco Tissue Culture Inoculated With TMV and of Virus and Mycoplasma-like Diseases of Michigan Highbush Blueberry.

ROGER CARL HAUT, Ph.D.

B.S., M.S., Michigan State University.
Mechanics. Major Professor: Robert William Little, Professor.
Thesis: A Constitutive Equation for Collagen Fibers.

HOMER CHANDLER HAWKINS, Ph.D.

B.A., Kent State University; M.S.W., Michigan State University.
Social Science. Major Professor: Lucille K. Barber, Professor.
Thesis: Knowledge of the Social and Emotional Implications of Urban Renewal and the Utility of this Knowledge to the Practice of Social Work.

ANNAMARIE GILLESPIE HAYES, Ph.D.

B.S., Eastern Michigan University; M.A., Michigan State University.
Education. Major Professor: Dale V. Alam, Associate Professor.
Thesis: How Black and White Students Compare in University Life-Space Use.

JOHN GEORGE HEHR, Ph.D.

B.S., Ohio University; M.A., Western Michigan University.
Geography. Major Professor: Jay R. Harman, Assistant Professor.
Thesis: Lake Breezes and Precipitation Patterns in Eastern Upper Michigan.

RANDALL BRUCE HEILIGMANN, Ph.D.

B.S., The Ohio State University; M.S., Michigan State University.
Forestry. Major Professor: Gerhardt Schneider, Associate Professor.
Thesis: Effect of Wind and Wind Protection on the Early Growth Response of Black Walnut (*Juglans nigra*).

MARY SUSAN HEISERMAN, Ph.D.

B.A., University of Kentucky; M.A., Iowa State University.
Education. Major Professor: Norman I. Kagan, Professor.
Thesis: The Effect of Experiential-Video-Tape Training Procedures Compared to Cognitive-Classroom Teaching Methods on the Interpersonal Communication Skills of Juvenile Court Case Workers.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

- KATHLEEN MARY HENNEGHAN, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Troy L. Stearns, Professor.
Thesis: School Dropout Programs in Selected Michigan School Districts: Implications for Curricular Innovations.
- JAN PAUL HESSLER, Ph.D. B.A., Kalamazoo College.
Physics. Major Professor: Edward H. Carlson, Associate Professor.
Thesis: The Low Temperature Cooperative Behavior of the Rare Earth Salts $GdCl_3$ and $PrCl_3$.
- JERRY MITCHELL HIGGINS, Ph.D. B.A., Asbury College; M.A., State University of Iowa.
Audiology and Speech Sciences. Major Professor: Herbert J. Oyer, Professor.
Thesis: The Effect of Speaker and Pressure Variation on the Vibrotactile Reception of Selected Spoken English Phonemes.
- VIVIAN SCOTT HIXSON, Ph.D. M.A., University of Chicago.
Sociology. Major Professor: James B. McKee, Professor.
Thesis: The New Town Meeting Democracy: A Study of Matched Towns.
- R. WILLIAM HOLLAND, Ph.D. B.A., M.A., Michigan State University.
Political Science. Major Professor: Bryan T. Downes, Associate Professor.
Thesis: School Desegregation and Community Conflict: An Analysis of Political Behavior as Related to Community Conflict.
- ROBERT JOHN HOMANT, Ph.D. B.A., University of Detroit; M.A., Michigan State University.
Psychology. Major Professor: Milton Rokeach, Professor.
Thesis: Values, Attitudes, and Perceived Instrumentality.
- JAMES LEE HONCHELL, Ph.D. B.S., M.S., Eastern Michigan University.
Education. Major Professor: Richard L. Featherstone, Professor.
Thesis: A Design for a Group Incentive Reward Plan in the Elementary School.
- SUSAN SCOTT HORAN, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Dale V. Alam, Associate Professor.
Thesis: Demographic, Personnel, and Philosophical Factors Related to the Selection of Provisions for Gifted Public Elementary Students in the Ingham Intermediate School District.
- RICHARD LESTER HOVEY, Ph.D. B.S., B.A., M.Ed., University of Washington.
Education. Major Professor: Cole S. Brembeck, Associate Professor.
Thesis: Cognitive Styles in African Cultures: The Global-Articulated Dimension.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

JERRY JOE HOWE, Ph.D.

B.S., Ohio University.
Chemistry. Major Professor: Thomas J. Pinnavaia, Assistant Professor.
Thesis: Part I: A Novel Stereochemical Rearrangement Process for An Isomer of Trimethylsilicon Acetylacetonate, A Silyl Enol Ether. Part II: Dynamic Stereochemical Properties of Some Cyclopentadienylzirconium β -Diketonate Complexes.

TSING-ZONE HSIEH, Ph.D.

B.S., National Taiwan University; M.S., Michigan State University.
Electrical Engineering. Major Professor: Dennis P. Nyquist, Associate Professor.
Thesis: Investigation of Impedance Loaded Slot Antennas and a Short-Backfire Antenna.

JOHN KARL HUDZIK, Ph.D.

B.A., M.A., Michigan State University.
Political Science. Major Professor: Alan P. Grimes, Professor.
Thesis: Firearms Legislation: The 90th Congress.

WILLIAM SAM HUNTER, Ph.D.

B.S., M.S., University of Oklahoma.
Physiology. Major Professor: Thomas Adams, Professor.
Thesis: The Interaction of Skin and Hypothalamic Temperatures as Thermoregulatory Drives in the Unanesthetized Cat.

JACOB ALLAN HURWITZ, Ph.D.

B.A., University of California; M.A., Michigan State University.
Political Science. Major Professor: Joseph A. Schlesinger, Professor.
Thesis: Political Efficacy Among Israeli Youth: Beliefs in Governmental Responsiveness and Political Effectiveness in a Hybrid Political System.

PETER HENRY HUSTON, Ph.D.

B.Sc., University of Western Ontario; M.A.T., Michigan State University.
Education. Major Professor: William J. Walsh, Professor.
Thesis: A Study of Value Orientations as a Characteristic of Secondary School Students and Teachers of Chemistry and as a Factor of Learning.

JAMES PATRICK HYNES, Ph.D.

B.B.S., University of Notre Dame; M.B.A., Michigan State University.
Business Administration (Transportation). Major Professor: Frank H. Mossman, Professor.
Thesis: Truckload Motor Carrier Rates in a Normative Spatial Environment.

CHARLES LOUIS JACKSON, Ph.D.

A.B., George Washington University; M.A., Indiana State Teachers College.
Education. Major Professor: Richard L. Featherstone, Professor.
Thesis: A Study of Selected Student Teaching Experiences Reported by Michigan State University Cluster Program and Conventional Program Student Teachers.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

DENNIS COBIAN JACKSON, Ph.D.

B.S., Arizona State University; M.S., Michigan State University.
Botany and Plant Pathology. Major Professor: G. W. Prescott, Professor.

Thesis: A Study of Selected Genera of the Families Gonatozygaceae, Mesotaeniaceae and Desmidiaceae in Montana.

TIMOTHY JAMES JOHNSON, Ph.D.

B.S., University of London; M.S., Michigan State University.
Horticulture. Major Professor: David R. Dilley, Professor.

Thesis: Prediction and Evaluation of Bartlett Pear Fruit Maturity.

FRANCIS LEON JONES, Ph.D.

A.B., Huntington College; M.S., Michigan State University.
Mathematics. Major Professor: John G. Hocking, Professor.

Thesis: A History and Development of Indecomposable Continua Theory.

NEIL EVAN JONES, Ph.D.

B.S., Alma College.

Chemistry. Major Professor: Eugene LeGoff, Associate Professor.

Thesis: Part I. The Crystal and Molecular Structure of Dibasketene.
Part II. The Reaction of Allyl Lithium with Stilbene.

ROBERT ALAN KAPLAN, Ph.D.

B.A., Western Reserve University; M.A., Michigan State University.
Psychology. Major Professor: Gary E. Stollak, Associate Professor.

Thesis: The Effects of Manipulating Nonverbal Behaviors of Interviewers on the Nonverbal Behaviors of Interviewees.

JAMES MARTIN KAPLE, Ph.D.

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

Thesis: Development of an Attitude-Behavior Toward Drug Users Scale Employing Guttman Facet Design and Analysis.

HAROLD THOMAS KARL, Ph.D.

B.M., Michigan State University; M.M., University of Tulsa.
Music. Major Professor: Robert G. Sidnell, Associate Professor.

Thesis: The Effects of Melodic Dictation and Sight Singing on Music Reading Achievement.

STANLEY JOHN KAYS, Ph.D.

B.S., Oklahoma State University; M.S., Michigan State University.
Horticulture. Major Professor: Clark Nicklow, Professor.

Thesis: Plant Competition, Root Growth and Ethylene Evolution.

HOMER H. KEARNS, JR., Ph.D.

B.A., M.A., Fresno State College.

Education. Major Professor: Howard W. Hickey, Associate Professor.

Thesis: An Analysis of Attitudes Toward Children and the Teaching Role of Students Who Have Participated in Education 482, The Urban Tutorial Program.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

- BRIAN MERVYN KEEFE, Ph.D. Diploma, Liverpool University; Diploma, Sheffield College; M.A., Rutgers University.
Education. Major Professor: J. Geoffrey Moore, Professor.
Thesis: An Investigation of the Expressed Attitudes and Policies Towards Secondary Education and Relevant Sections of the 1944 Education Act in the House of Commons 1945-1955.
- RICHARD LYNN KELLOGG, Ph.D. B.S., M.S., Michigan State University.
Geology. Major Professor: William J. Hinze, Professor.
Thesis: An Aeromagnetic Investigation of the Southern Peninsula of Michigan.
- PARIMONDH KHANJANASTHITI, Ph.D. B.S., Chulalongkorn University.
Botany and Plant Pathology. Major Professor: Everett S. Beneke, Professor.
Thesis: Comparative Study of Protein Fractions and Enzymes in the Culture Filtrates of *Histoplasma capsulatum* and *Histoplasma duboisii* Vanbreuseghem.
- EVAN JOSEPH KIDSON, Ph.D. B.S., M.S., Wichita State University.
Geology. Major Professor: Aureal T. Cross, Professor.
Thesis: Palynology and Paleoecology of the Buck Tongue of the Mancos Shale (Upper Cretaceous) from East Central Utah and Western Colorado.
- GEORGE EDWIN KLEE, Ph.D. B.S., M.S., Michigan State University.
Entomology. Major Professor: James W. Butcher, Professor.
Thesis: DDT Metabolism and Movement in Deciduous Forest Soil Microarthropods.
- DANIEL ALLEN KLEIN, Ph.D. B.A., Andrews University; M.A., Michigan State University.
Education. Major Professor: William W. Heusner, Professor.
Thesis: Effects of Exercise and a Vegetarian Diet on Carcass Composition, Organ Weights, and Serum Cholesterol and Triglycerides.
- ROBERT CHARLES KLEMKOSKY, Ph.D. B.A., Michigan State University; M.B.A., University of Michigan.
Business Administration (Finance). Major Professor: Myles S. Delano, Professor.
Thesis: An Analysis of a Strategy for Purchasing Straddle Options.
- LARRY ROBERT KLEVANS, Ph.D. B.S., Washington and Jefferson College; M.S., Michigan State University.
Pharmacology. Major Professor: Gerald L. Gebber, Associate Professor.
Thesis: Interaction between Central and Peripheral Neural Mechanisms Influencing the Cardiac Vagus.
- ALEXANDER JOSEPH KLOSTER, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Louis G. Romano, Professor.
Thesis: The Development of an Accounting System as Part of a Complete Planning, Programming, Budgeting System.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

- DONALD EUGENE KRISCHAK, Ph.D. B.S., M.A., Indiana State University.
Education. Major Professor: Max R. Raines, Professor.
Thesis: An Analysis of an Unsuccessful Rural Community College Millage Election to Determine How Selected Communication Techniques and Demography Interacted to Influence Voter Decision.
- ANTOINETTE KRUPSKI, Ph.D. B.A., The Ohio State University; M.A., Michigan State University.
Psychology. Major Professor: Hiram E. Fitzgerald, Associate Professor.
Thesis: Heart Period and Respiratory Concomitants of Attention in Normals and Retardates During a Fixed Reaction Time Task.
- JANET MAE KUDIRKA, Ph.D. B.A., Michigan State University.
Chemistry. Major Professor: Christie G. Enke, Associate Professor.
Thesis: Theory and Applications of Coulstatic Kinetic and Analytical Measurements.
- TIMOTHY LA FARGE, Ph.D. B.A., Black Mountain College; B.S., University of Maine; M.F., Yale University.
Forestry. Major Professor: Jonathan W. Wright, Professor.
Thesis: Inheritance and Evolution of Stem Form in Three Northern Pine Species.
- CHARLES CHAPMAN LANTZ, Ph.D. M.A., University of California.
Anthropology. Major Professor: Alfred B. Hudson, Associate Professor.
Thesis: Field and Network in Isan: A Preliminary Analysis of Factional Disputes in a Market Town in Northeast Thailand.
- PETER LAI-SUN LEE, Ph.D. B.S., Seattle University.
Chemistry. Major Professor: Richard H. Schwendeman, Professor.
Thesis: Studies of Cyclopropyl Methyl Ketone, Cyanodifluorophosphine, Difluorocyanamide, and Butyraldehyde by Molecular Rotational Spectroscopy.
- YONG MOK LEE, Ph.D. B.A., Wilmington College; M.S., Michigan State University.
Mathematics. Major Professor: Charles J. Martin, Professor.
Thesis: On Some Problems in a Theory of Thermally and Mechanically Interacting Continuous Media.
- EDWARD MAYNARD LIDDLE, SR., Ph.D. B.A., Montclair State College; M.S., Purdue University.
Education. Major Professor: William J. Walsh, Professor.
Thesis: A Quasi-Experimental Study of the Effects of Two Modes of Instructions on the Attitudes of Preservice Elementary Teachers in the Area of Science Teaching.
- GARY GLENN LONG, Ph.D. B.S., Kansas State University; M.S., University of Nebraska.
Forestry. Major Professor: Jonathan W. Wright, Professor.
Thesis: Variation Between and Within Nine Eurasian Species of *Ulmus*.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

JERALD ELBERT LOUNSBURY, Ph.D.

B.A., M.A., Michigan State University.
Education. Major Professor: Laurine E. Fitzgerald, Professor.
Thesis: An Analysis of the Satisfaction with College Experienced by Special Project Students, Primarily Inner-City and Negro, at a Non-Metropolitan University as Measured by the College Student Questionnaire.

YORAM MALEVSKI, Ph.D.

B.S., M.S., Hebrew University.
Food Science. Major Professor: Georg A. Borgstrom, Professor.
Thesis: Some Effects of Methylazoxymethanol Acetate on the Neuroendocrinological and Neurological Systems in the Rat.

PAUL DIRK MANSON, Ph.D.

B.S., M.A., Northern Michigan University.
Education. Major Professor: Samuel A. Moore, II, Professor.
Thesis: Pre-Kindergarten Readiness Testing Program Characteristics in Southern Michigan School Districts Using the ABC Inventory.

JOSEPH GEORGE MASIN, Ph.D.

B.S., M.S., Michigan State University.
Chemical Engineering. Major Professor: Donald K. Anderson, Professor.
Thesis: Blood Rheology: Proposed Models and the Effects of Cation Concentration and Active Hyperemia.

DAVID HENRY MASLANKA, Ph.D.

B.M., Oberlin College; M.M., Michigan State University.
Music. Major Professor: Herbert O. Reed, Professor.
Thesis: Shibui Symphony and String Quartet.

JOHN BEATTY MATHIES, Ph.D.

M.S., Michigan State University.
Forestry. Major Professor: Gerhardt Schneider, Associate Professor.
Thesis: Annual Consumption of Cesium¹³⁷ and Cobalt⁶⁰ Labeled Pine Seeds by Small Mammals in an Oak-Hickory Forest.

JOHN H. MCBETH, Ed.D.

B.S., Indiana University; M.A., University of Alabama.
Education. Major Professor: Peter G. Haines, Professor.
Thesis: The Acceptance — Adoption of the Block-Time Approach in Teaching Office Education: A Case Study of a National Project.

RICHARD ALLIN MCGONIGAL, Ph.D.

B.S., Cornell University; S.T.M., Columbia University.
Education. Major Professor: Russell Kleis, Professor.
Thesis: A Model for the Cross Cultural Interaction Training of Adults.

MARC CHARLES MENTLEY, Ph.D.

B.S., Northern Michigan University; M.A., Central Michigan University.
Education. Major Professor: Sam Corl, Assistant Professor.
Thesis: Some Relationships Between Personality, Class Selection Characteristics and Teacher Attitude Change of Secondary Teaching Methods Students, Michigan State University, Winter Term, 1971.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

- THOMAS WILLIAM MERCER, Ph.D. B.S., Central Michigan University; M.A., Michigan State University. Education. Major Professor: Ted W. Ward, Professor.
Thesis: An Information System and Its Users: A Descriptive Study.
- MARTIN GEORGE MILLER, Ph.D. B.A., Coe College; M.S., Michigan State University. Social Science. Major Professor: Donald W. Olmstead, Professor.
Thesis: Socialization and the Compliance System: An Attitudinal Study of Adolescents, Their Teachers, and Police Officers.
- ROBERT JAMES MORRIS, Ph.D. B.S., Eastern Michigan University; M.A., Michigan State University. English. Major Professor: Arnold Williams, Professor.
Thesis: An Enriching of Art: *Paradise Lost* and the Genre Question.
- RONALD DEAN MORSE, Ph.D. B.S., M.S., Utah State University. Horticulture. Major Professor: Martin J. Bukovac, Professor.
Thesis: Sorption of Methylene Blue and 2,4-Dichlorophenoxyacetic Acid by Isolated Tomato Fruit Cuticular Membrane.
- PAUL FRANCIS MURPHY, Ph.D. B.A., Catholic University of America; M.A., Brooklyn College. Mathematics. Major Professor: David L. Winter, Associate Professor.
Thesis: M-Groups and \tilde{M} -Groups.
- ALLEN KETCIK MURRAY, Ph.D. B.S., University of Southern California. Botany and Plant Pathology. Major Professor: Robert S. Bandurski, Professor.
Thesis: Correlative Studies on Cell Wall Enzymes and Growth.
- HARVEY G. NEUFELDT, Ph.D. B.A., Waterloo Lutheran University; M.A., Michigan State University. History. Major Professor: Douglas T. Miller, Associate Professor.
Thesis: The American Tract Society, 1825-1865: An Examination of Its Religious, Economic, Social, and Political Ideas.
- RONALD JOSEPH NURSE, Ph.D. B.A., M.A., Michigan State University. History. Major Professor: Warren I. Cohen, Professor.
Thesis: America Must Not Sleep: The Development of John F. Kennedy's Foreign Policy Attitudes, 1946-60.
- BRUCE TREVOR OLSON, Ph.D. A.B., M.A., University of California. Social Science. Major Professor: Duane L. Gibson, Professor.
Thesis: An Exploration of the Effects of Member Goal Preferences on a Basic Training Curriculum in a State Police Agency.
- PATRICIA LYNNE ORR, Ph.D. B.S., Michigan State University. Geology. Major Professor: Robert Ehrlich, Associate Professor.
Thesis: Experimental Dolomitization and Aragonitization at Low Temperatures and Pressures.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

BARBARA S. ORT, Ph.D.

B.A., M.A., Ball State University.
Education. Major Professor: Dale V. Alam, Associate Professor.
Thesis: An Examination of Relationships Between the Measurable Cognitive Characteristics of a French I Teacher and the Student's Success in That Course.

RAJNIKORN OUTRAKUL, Ph.D.

B.S., Chulalongkorn University; M.S., Michigan State University.
Botany and Plant Pathology. Major Professor: Norman E. Good, Professor.
Thesis: Electron Transport and Phosphorylation in Chloroplasts as a Function of the Electron Acceptor.

JAMES ARTHUR PARKER, Ph.D.

B.A., M.A., Michigan State University.
Education. Major Professor: George R. Myers, Professor.
Thesis: A Comparative Study of the Michigan State University Cluster Program and the Conventional Program of Student Teaching in the Saginaw Area with Reference to Stereotypic Beliefs and Attitude Formation.

GORDON EARL PECKHAM, Ph.D.

B.S., Ed.S., Western Michigan University; M.A., University of Michigan.
Education. Major Professor: Archibald B. Shaw, Professor.
Thesis: The Systems Approach to School Construction — The Potential Benefits, the Necessary Conditions, and the Implications for Michigan Schools.

WILLIAM ALBERT PENN, Ph.D.

B.F.A., M.A., State University of New York.
Music. Major Professor: H. Owen Reed, Professor.
Thesis: Symphony No. 1.

DAVID RAY PETERSON, Ph.D.

B.A., Ripon College; M.S., Michigan State University.
Mathematics. Major Professor: William Sledd, Professor.
Thesis: Theorems on Nonharmonic Analysis.

DEANNE DOROTHY PROCTOR, Ph.D.

B.S., Iowa State University; M.A., Michigan State University.
Physics. Major Professor: Albert P. Linnell, Professor.
Thesis: Analysis of the Light Curves of Ten Eclipsing Binary Systems.

ELDOR CLEMENS QUANDT, Ph.D.

B.A., Valparaiso University; M.S., Kansas State University.
Geography. Major Professor: Lawrence M. Sommers, Professor.
Thesis: Post World War II Population Migration to Mo I Rana, Norway: A Study of the Spatial Impact on the Migration Process of Varying Labor Demands.

DANIEL ANTHONY QUIRK, JR., Ph.D.

B.A., Bucknell University; M.A., Michigan State University.
Political Science. Major Professor: Frank A. Pinner, Professor.
Thesis: Factors Contributing to Antinomian Orientations Among University Students.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

- JOHN ARTHUR RAFTER, Ph.D. B.S., University of Michigan; M.S., Michigan State University. Statistics. Major Professor: Esther Seiden, Professor.
Thesis: Contributions to the Theory and Construction of Partially Balanced Arrays.
- JAY E. RAPHAEL, Ph.D. B.A., Brooklyn College; M.A., Northwestern University. Theatre. Major Professor: E. C. Reynolds, Professor.
Thesis: An Annotated and Critical Bibliography of the Works Written in English Since 1900 on the Pre- and Post-Revolutionary Russian Theatre.
- PETER A. REMENDER, Ph.D. B.S., M.A., Central Michigan University. Education. Major Professor: Wilbur B. Brookover, Professor.
Thesis: Symbolic Interaction and Education: Some Marginal Notes.
- SAL P. RESTIVO, Ph.D. B.A., City University of New York; M.A., Michigan State University. Sociology. Major Professor: John H. Useem, Professor.
Thesis: Visiting Foreign Scientists at American Universities: A Study in the Third-Culture of Science.
- PATTY COON RICE, Ph.D. B.A., M.A., Ed.S., Michigan State University. Education. Major Professor: Donald H. Nickerson, Associate Professor.
Thesis: Development, Implementation, and Evaluation of a "Moving Into Drama" Kindergarten Program to Develop Basic Learning Skills and Language.
- RALPH WILLIAM RICHARDS, Ph.D. B.A., M.A., Michigan State University. Psychology. Major Professor: Mark E. Rilling, Associate Professor.
Thesis: Reinforcement Delay: Some Effects on Behavioral Contrast.
- BLAINE A. RITTS, Ph.D. B.S., M.S., Pennsylvania State University. Business Administration (Accounting). Major Professor: Herbert E. Miller, Professor.
Thesis: A Study of Some Behavioral and Psychological Effects of Accounting Principles Board Opinion Releases Upon the Membership of the American Institute of Certified Public Accountants.
- CARLTON PORTERFIELD ROBARDEY, SR., Ph.D. B.S., M.A., East Texas State University. Education. Major Professor: Dale V. Alam, Associate Professor.
Thesis: A Study of Selected Michigan Elementary And Secondary Teachers' and Principals' Attitude Toward Computer Assisted Instruction.
- JAMES KEITH ROGERS, Ph.D. B.S., Brigham Young University; M.Ed., Florida State University. Education. Major Professor: Louis G. Romano, Associate Professor.
Thesis: Community-School Legislation in Utah in 1970, and the Historical Antecedents.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

- RONALD MICHAEL ROGOWSKI, Ph.D. B.S., University of Wisconsin; M.S., Michigan State University. Chemistry. Major Professor: Kim C. Cohn, Assistant Professor. Thesis: The Reaction of 1-Methyl-1,2-Dicarbacloso-Dodecaboran(12) and 1,2 Bis(Diphenylphosphino) Carborane(12) with Platinum Salts.
- WAYNE E. ROWE, Ph.D. B.A., Western Michigan University; M.A., Michigan State University. Education. Major Professor: Bob B. Winborn, Professor. Thesis: The Effect of Short-Term Group Counseling and Cognitive Learning on a Measure of Self-Actualization of Counselors in Training.
- ROBERT WARD RUBIN, Ph.D. B.A., Cornell College; M.S., University of Michigan. Zoology. Major Professor: R. Neal Band, Professor. Thesis: An Analysis of the Chemistry and Function of Microtubule Protein as Related to Cell Division in *Acanthamoeba Rhysodes*.
- ELIZABETH JOAN SALMI, Ph.D. B.A., M.A., Michigan State University. Education. Major Professor: Don E. Hamachek, Professor. Thesis: The Instructional Process as a Function of Interactions Among Instructional Situation Variables.
- JOHN KARL SCHEIDT, Ph.D. B.S., University of Dayton; M.S., Michigan State University. Statistics. Major Professor: Habib Salehi, Associate Professor. Thesis: Interpolation of Stationary Random Fields Over Locally Compact Abelian Groups.
- ROBERT LANE SEIVER, Ph.D. B.S., University of Iowa. Chemistry. Major Professor: Harry A. Eick, Professor. Thesis: The Vaporization Thermodynamics of Samarium Dicarbide and Thulium Dicarbide.
- BERNARD IRWIN SILVERMAN, Ph.D. A.B., University of Illinois; M.A., Michigan State University. Psychology. Major Professor: Frederic R. Wickert, Professor. Thesis: Consequences, Racial Discrimination and the Principle of Belief Congruence.
- ROBERT DAVID SIMON, Ph.D. B.S., University of Chicago. Botany and Plant Pathology. Major Professor: Coleman P. Wolk, Associate Professor. Thesis: Isolation, Characterization, and Physiology of the Cyanophycin Granules from the Blue-Green Alga *Anabaena cylindrica* Lemm.
- WILLIAM A. SIMPSON, Ph.D. B.S., U. S. Naval Academy; M.S., University of Michigan. Mathematics. Major Professor: J. Sutherland Frame, Professor. Thesis: A Development of the Character Tables for Certain Classes of Unitary and Linear Groups.
- ALVIN J. MARION SMUCKER, Ph.D. B.A., Goshen College; M.S., Michigan State University. Soil Science. Major Professor: A. Earl Erickson, Professor. Thesis: Anaerobiosis as it Affects the Exudation and Infection of Pea Roots Grown in an Aseptic Mist Chamber.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

- DONALD ALBERT SNITGEN, Ph.D. B.S., Central Michigan University; M.S., Michigan State University. Education. Major Professor: John M. Mason, Professor.
Thesis: A Study of the Attitudes of Prospective Elementary School Teachers Toward Biological Science.
- ALICE ANN SPANGLER, Ph.D. B.S., M.S., Purdue University.
Nutrition. Major Professors: Dena C. Cederquist, Professor; Charles A. Blackman, Professor.
Thesis: Educational Preparation of Hospital Dietitians: Present Functions and Satisfaction; Characteristics Needed for Contributing Membership on Health Teams.
- RONALD LEE SPANGLER, Ph.D. B.S., M.S., Purdue University.
Horticulture. Major Professor: H. Paul Rasmussen, Associate Professor.
Thesis: Graft Success as Influenced by Environmental Conditions Affecting Physiological Changes in *Juniperus* L.
- FRANK GRAHAM STEWART, Ph.D. B.M., University of Rochester; M.A.T., Colorado State University.
Music. Major Professor: H. Owen Reed, Professor.
Thesis: TO LET THE CAPTIVE GO.
- NICHOLAS T. STOWE, Ph.D. B.A., Dartmouth College; M.S., John Carroll University.
Pharmacology. Major Professor: Jerry B. Hook, Associate Professor.
Thesis: Intrarenal Hemodynamic Effects of Furosemide in the Dog.
- WILLIAM HENRY SUMNER, Ph.D. A.B., Eastern Michigan University; M.S., Indiana University.
Education. Major Professor: Troy L. Stearns, Professor.
Thesis: A Study of the Perceptions of Public, Independent, Free, and Catholic Elementary School Parents Regarding Selected Programs and Practices in the Public Elementary Schools of Michigan.
- SHLOMO SWIRSKI, Ph.D. B.A., Hebrew University; M.A., Michigan State University.
Political Science. Major Professor: Frank A. Pinner, Professor.
Thesis: Changes in the Structure of Relations Between Groups and the Emergence of Political Movements: The Student Movement at Harvard and Wisconsin, 1930-1969.
- CHARLES EDWARD TATUM, Ph.D. B.A., M.Ed., Prairie View A&M College; M.S., Indiana University.
Geography. Major Professor: Lawrence M. Sommers, Professor.
Thesis: The Christian Methodist Episcopal Church, with Emphasis on the Negroes in Texas, 1870 to 1970: A Study in Historical-Cultural Geography.
- DONALD CARMEN TAVANO, Ph.D. B.S., State University of New York; M.S., University of Illinois; M.P.H., University of Michigan.
Education. Major Professor: Charles A. Blackman, Professor.
Thesis: Relationships Between Breakfast, Midmorning Snack and Student Achievement Test Performance in Late Morning.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

- TERRILL PATRICK TAYLOR, Ph.D. B.S., Central State University; M.A., Michigan State University. Education. Major Professor: Dale V. Alam, Associate Professor. Thesis: A Study of the Relationship Between Demographic Variables and Racial Attitudes.
- JEROME TILLMAN, Ph.D. A.B., Wilberforce University; M.A., Michigan State University. Education. Major Professor: Donald H. Nickerson, Associate Professor. Thesis: A Study of the Attitudes of Black Urban School Teachers Toward Whites in Relation To Education.
- ROBERT HUME TOMLINSON, Ph.D. B.A., University of Richmond; M.A., Michigan State University. History. Major Professor: Frederick D. Williams, Professor. Thesis: The Origins and Editorial Policies of the Richmond Whig and Public Advertiser, 1824-1865.
- JACK WATSON TRAVIS, Ph.D. B.S., M.S., West Virginia University. Geology. Major Professor: Chilton E. Prouty, Professor. Thesis: Paleoenvironmental Study of the Helderberg Group of West Virginia and Virginia.
- LAWRENCE EDWARD TURNER, JR., Ph.D. B.S., M.A., Pacific Union College. Physics. Major Professor: R. Erik Zimmerman, Assistant Professor. Thesis: Carbon and Oxygen Production During the Helium Burning Phase in Intermediate Mass Stars.
- LARRY DALE VANDERMOLLEN, Ph.D. B.A., M.A., Western Michigan University. Education. Major Professor: Vandel C. Johnson, Professor. Thesis: The Effects of Teaching Methods in Political Science Courses Upon Student Attitudes Toward Political Issues: An Experimental Study.
- CHARLES M. WADDELL, Ph.D. B.S., Virginia State College; M.S., Howard University. Psychology. Major Professor: Milton Rokeach, Professor. Thesis: The Functional Relationship Between Values, Attitudes, and Black Militancy.
- RICHARD WAYLAND WAGNER, Ph.D. B.S., Michigan State University; M.S., University of Toledo. Biophysics. Major Professor: Ashraf El-Bayoumi, Associate Professor. Thesis: A Correlative Study of the UV Spectra of Indole and the Azaindoles Including Purine: A Symbiotic Computational and Experimental Approach.
- RICHARD VERN WALL, Ph.D. B.A., Columbia University; B.F.A., M.A., University of Utah. French, Language and Literature. Major Professor: Kenneth R. Scholberg, Professor. Thesis: Bayle and *l'Avis aux Réfugiés*: A New Approach.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

- JOHN FREDERICK WARDELL, Ph.D. B.S., Michigan State University.
Botany and Plant Pathology. Major Professor: John H. Hart, Associate Professor.
Thesis: Formation of Heartwood and Discolored Sapwood in White Oak and White Spruce.
- NATHANIEL HUBERT WASH, Ph.D. A.B., Greenville College; M.M.E., Illinois Wesleyan University.
Music. Major Professor: Loren J. Jones, Associate Professor.
Thesis: The Formant Behavior of the Vowels [a], [i], and [u] in Baritone Voices in Relation to Different Voice Ranges.
- DEAN BESSMER WEBB, Ph.D. B.S., M.S., Michigan State University.
Mathematics. Major Professor: John J. Masterson, Associate Professor.
Thesis: An Introduction to the History of Fourier Series and the Theory of Integration.
- ROBERT PAUL WEISS, Ph.D. A.B., M.A., San Jose State College.
Education. Major Professor: Stanley E. Hecker, Professor.
Thesis: Pre-Service and In-Service Preparation Programs for Urban School Superintendents as Viewed by Practitioners and a Selected Panel of Authorities.
- PATRICIA RAMSDELL WIDMAYER, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Judith E. Henderson, Associate Professor.
Thesis: The Development of a Technique for the Categorization and Analysis of Teacher Reinforcement Behaviors.
- DOUGLAS HALL WILLIAMS, Ph.D. B.A., Sacramento State College; M.A., Michigan State University.
Psychology. Major Professor: Terrence M. Allen, Professor.
Thesis: Visibility Thresholds for Flashing Lights.
- GARY BRUCE WILSON, Ph.D. B.S., Central Michigan University; M.A., California State College.
Communication. Major Professor: Gerald R. Miller, Professor.
Thesis: Purposeful Ambiguity as a Persuasive Message Strategy.
- MING KEONG WONG, Ph.D. B.S., Nanyang University; M.S., Michigan State University.
Chemistry. Major Professor: Alexander I. Popov, Professor.
Thesis: Spectroscopic and Thermoelectric Vapor Phase Osmometric Studies of Alkali and Ammonium Ion Solvation in Nonaqueous Solvents.
- WILLIAM L. WOOD, Ph.D. B.S., Michigan State University.
Geology. Major Professor: William J. Hinze, Professor.
Thesis: Transformation of Breaking Wave Parameters Over a Submarine Bar.
- DAVID JOHN WRIGHT, Ph.D. B.A., Michigan State University.
Education. Major Professor: Robert C. Craig, Professor.
Thesis: An Investigation of the Effects of Selected Methods of Post Hoc Block Formation on the Analysis of Variance.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

- JOHN WILLIAM WRIGHT, Ph.D. B.A., M.S., Western Washington State College.
Psychology. Major Professor: Lawrence I. O'Kelly, Professor.
Thesis: Effects of Lesions in the Posterior Medial Hypothalamus on Saline Solution Preference and Body Water Regulation.
- DAVID L. YODER, Ph.D. B.A., Goshen College.
Botany and Plant Pathology. Major Professor: John L. Lockwood, Professor.
Thesis: Dynamics of Fungal Spore Germination in Soil.
- OLEN C. YODER, Ph.D. B.A., Goshen College; M.S., Michigan State University.
Botany and Plant Pathology. Major Professor: Robert P. Scheffer, Professor.
Thesis: Selective Effects of the Host-Specific Toxin from *Helminthosporium Carbonum* on Cellular Organelles and on Solute Absorption.
- JOHN STEVEN ZDANOWICZ, Ph.D. B.S., Rochester Institute of Technology; M.B.A., Michigan State University.
Business Administration (Finance). Major Professor: Myles Delano, Professor.
Thesis: Investment Risk Considering Intra-Period Liquidation: A Re-evaluation of Price Variance.
- ANTHONY ZITO, Ph.D. B.A., M.A., Michigan State University.
History. Major Professor: Richard E. Sullivan, Professor.
Thesis: The Presbyter of Carolingian Society.

EDUCATIONAL SPECIALIST DEGREES — GRADUATED SUMMER TERM, 1971

- KAY PATRICIA BALDWIN, Ed.S. A.B., Albion College; M.A., Michigan State University.
Education. Major Professor: Charles A. Blackman, Professor.
- SUSAN NÖEL BECKER, Ed.S. B.A., Knox College; M.A., Michigan State University.
Education. Major Professor: Frank B. Bruno, Assistant Professor.
- JOCELYN A. BLONG, Ed.S. A.B., Cincinnati Bible College; A.B., Earlham Seminary College; M.A., University of Notre Dame.
Education. Major Professor: Russell J. Kleis, Professor.
- MARGARET LOUISE BROWN, Ed.S. B.S., Western Michigan University; M.A., Michigan State University.
Education. Major Professor: Ruby M. Junge, Professor.
- ROBERT FOSTER BROWN, Ed.S. B.A., M.A., University of Michigan.
Education. Major Professor: Russell J. Kleis, Professor.
- SISTER ROSE MARY CHARRON, Ed.S. B.A., Mercy College of Detroit; M.Ed., Wayne State University.
Education. Major Professor: Charles A. Blackman, Professor.
- HOWARD EUGENE CHENOWETH, Ed.S. B.A., Michigan State University; M.A., Eastern Michigan University.
Education. Major Professor: John H. Suehr, Associate Professor.

SCHOOL FOR ADVANCED GRADUATE STUDIES

EDUCATIONAL SPECIALIST DEGREES — GRADUATED SUMMER TERM, 1971 (Continued)

WILLIAM RUSSELL CREGER, Ed.S.	B.S., Central Michigan University; M.A., Michigan State University. Education. Major Professor: Stanley E. Hecker, Professor.
DANIEL EDWARD DELLA-GIUSTINA, Ed.S.	B.A., M.A., American International College. Education. Major Professor: Robert E. Gustafson, Associate Professor.
RICHARD DAVID DORNBOS, Ed.S.	B.S., M.A., Michigan State University. Education. Major Professor: Raymond L. Boozer, Assistant Professor.
JAMES O. DULWORTH, Ed.S.	B.A., Michigan State University; M.Ed., Wayne State University. Education. Major Professor: Troy L. Stearns, Professor.
ALICE GAIL FIDLER, Ed.S.	A.B., State University of New York (Fredonia College); M.A., Michigan State University. Education. Major Professor: Harvey F. Clarizio, Associate Professor.
JOSEPH L. HOOPER, Ed.S.	A.B., M.A., Eastern Michigan University. Education. Major Professor: Stanley E. Hecker, Professor.
PHILIP LOUIS HUMMEL, III, Ed.S.	B.A., M.A., Michigan State University. Education. Major Professor: Walter F. Johnson, Professor.
GARY LAWRENCE LEWIS, Ed.S.	B.A., University of Michigan; M.A., Central Michigan University. Education. Major Professor: John Wagner, Professor.
CHARLES WILLARD MAURO, Ed.S.	B.A., Emmanuel Missionary College; M.A., Ball State University. Education. Major Professor: Dale V. Alam, Associate Professor.
DONALD CRAIG MCGAHAN, Ed.S.	B.S., Michigan State University. Education. Major Professor: Harvey F. Clarizio, Associate Professor.
DAVID JAMES MULLINS, Ed.S.	B.S., M.A., Western Michigan University. Education. Major Professor: Herbert C. Rudman, Professor.
JOHN RAYMOND OSTROM, Ed.S.	B.Ed., M.Ed., Wisconsin State University. Education. Major Professor: Russell J. Kleis, Professor.
JAMES EDWIN PERSON, Ed.S.	B.A., M.A., Central Michigan University. Education. Major Professor: Lawrence Borosage, Professor.
ALBERT L. RENAKER, Ed.S.	B.S., M.S., University of Florida. Education. Major Professor: Herbert C. Rudman, Professor.
WILLIAM PORTER SHANNON, Ed.S.	A.B., Adrian College; M.A., University of Michigan. Education. Major Professor: John H. Suehr, Associate Professor.
VICTOR ALLEN SNODGRASS, Ed.S.	B.A., Eastern Michigan University. Education. Major Professor: Harvey F. Clarizio, Associate Professor.
FREDERICK ALEXANDER SWEGLES, Ed.S.	B.A., Adrian College; M.A., Michigan State University. Education. Major Professor: Floyd G. Parker, Professor.
GEORGE WILBERT TRUCKEY, Ed.S.	B.S., M.A., Northern Michigan University. Education. Major Professor: Carl W. Brautigam, Associate Professor.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971

- SAMI NAGUIB ABDELHAMID, Ph.D. B.Sc., Ain Shams University; M.S., Stanford University.
Statistics. Major Professor: Vaclav Fabian, Professor.
Thesis: Transformation of Observations in Stochastic Approximation.
- JAMES GILMORE AHL, Ph.D. B.A., M.S., University of Wyoming.
Resource Development. Major Professor: Milton H. Steinmueller, Professor.
Thesis: Use-Value Assessment in Macomb County, Michigan: Simulated Effects on Township Finances in Five Townships in the Rural-Urban Fringe, 1960-1969.
- ROBERT LEE ANDERSON, Ph.D. B.S., M.Ed., Colorado State University.
Education. Major Professor: H. Paul Sweany, Professor.
Thesis: Curricula and the Coordinator's Role in Post High School Agricultural Mechanics Technical Training Programs.
- DONALD LAWRENCE AYLESWORTH, Ph.D. B.S., Western Michigan University; M.A., Michigan State University.
Audiology and Speech Sciences. Major Professor: Leo Deal, Professor.
Thesis: The Effects of Filtered Sidetone on Sound Pressure Level, Duration and Fundamental Frequency of Continuous Vocal Output.
- GORDON ROBERT BACHMAN, Ph.D. B.S., University of Nebraska; M.S., University of Wisconsin.
Resource Development. Major Professor: Milton H. Steinmueller, Professor.
Thesis: Simulated Effects of Use Value Assessment Alternatives on Local Government Finances in Five Townships on the Rural-Urban Fringe in Kent County, Michigan.
- ROBERT EDEN BALSTER, Ph.D. B.A., University of Iowa; M.S., Northwestern University.
Education. Major Professor: Max R. Raines, Professor.
Thesis: An Exploratory Study of Strategies and Tactics Used to Introduce Planned Innovations in Selected Community Services Programs.
- SAMUEL TRUMAN BASS, Ph.D. B.S., David Lipscomb College; M.S., George Peabody College.
Botany and Plant Pathology. Major Professor: Everett S. Beneke, Professor.
Thesis: Investigations of the Virulence and Physiology of Some Strains and Mutants of *Blastomyces Dermatitidis*, Gilchrist and Stokes 1898.
- NANCY W. BAUER, Ph.D. B.A., Smith College; M.A., University of Michigan.
Education. Major Professor: Ted Ward, Professor.
Thesis: Assessing Teachers' Perceptions Under the Impact of a Clinical Curriculum Design.
- DAVID MICHAEL BELL, Ph.D. B.S., M.S., University of Nebraska.
Agricultural Economics. Major Professor: James D. Shaffer, Professor.
Thesis: The Impact of Air Pollution Abatement Activities of Coal-Burning Electric Power Generating Plants on the Fertilizer Industry.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

- CHARLES THOMAS BENNETT, Ph.D. B.A., University of Michigan; M.A., Michigan State University. Psychology. Major Professor: Glenn I. Hatton, Associate Professor. Thesis: Electrical Activity of Supraoptic Neurons In Water Deprived Rats During Slow Intragastric Infusions of Water.
- DAYLE MORGAN BETHEL, Ph.D. B.A., M.A., State University of Iowa. Education. Major Professor: Carl H. Gross, Professor. Thesis: The Life and Thought of Tsunesaburo Makiguchi: His Contribution to Education.
- DONALD STEPHEN BISKIN, Ph.D. B.S., State University of New York; M.A., Michigan State University. Education. Major Professor: Harvey F. Clarizio, Associate Professor. Thesis: A Developmental Study of the Organization of Impressions Written From Inconsistent Information.
- DARRELL ALVIN BLOOM, Ph.D. B.A., Augustana College; M.Ed., National College of Education. Education. Major Professor: Glen O. Cooper, Professor. Thesis: Role Expectations for Clinical Consultants as Viewed by Student Teachers and Clinical Consultants in the Michigan State University Cluster Student Teaching Program.
- DOUGLAS W. BLOOMQUIST, Ph.D. A.B., M.A., Bucknell University. Psychology. Major Professor: Ralph L. Levine, Associate Professor. Thesis: Interspecific and Intraspecific Comparisons of Single-Bottle Sucrose Intake in *Peromyscus*.
- RAY LEWIS BOGGS, Ph.D. B.A., Glenville State College; M.A., Michigan State University. Education. Major Professor: Troy L. Stearns, Professor. Thesis: A Review and Examination of Selected Aspects of the Esea Title III (Pace) Program in the State of Michigan.
- WILLIAM JAMES BOHN, Ph.D. B.A., University of Utah; M.A., Michigan State University. German, Language and Literature. Major Professor: Raymond Belgardt, Professor. Thesis: Style and Function of the Monologue in Three Plays by Friedrich Schiller: *Die Rauber*, *Wallenstein*, *Wilhelm Tell*.
- ROBERT HIGDON BOLING, JR., Ph.D. B.S., University of Mississippi; M.S., Michigan State University. Electrical Engineering. Major Professors: William L. Kilmer, Professor; Robert O. Barr, Associate Professor. Thesis: State-space Models for Ecological Systems.
- GERALD LEWIS BOROFKY, Ph.D. B.A., Cornell University; M.A., Michigan State University. Psychology. Major Professor: Albert I. Rabin, Professor. Thesis: Regression and Ego Functioning in Creative Normals and Psychotics.
- JOHN ELLIOTT BOWES, II, Ph.D. A.B., Hamilton College; M.A., Syracuse University. Communication. Major Professor: Bradley S. Greenberg, Professor. Thesis: Information Control Behaviors and the Political Effectiveness of Low Income Urban Blacks.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

JOHN H. BRACCIO, Ph.D.

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

Education. Major Professor: Glen O. Cooper, Professor.

Thesis: A Comparative Study of School Self-Concept Between Low Socio-Economic Fifth- and Sixth-Grade Chicanos and Anglo Americans.

LEROY DAVIS BROOKS, II, Ph.D.

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

Business Administration (Finance). Major Professor: Myles S. Delano, Professor.

Thesis: A Security Valuation Model Including Return Distributions of Other Securities as a Determinant of Value.

GUILLERMO SANTIAGO BURGA, Ph.D.

B.S., Universidad Agraria; M.S., North Carolina State University; M.B.A., Michigan State University.

Poultry Science. Major Professor: Robert K. Ringer, Professor.

Thesis: Considerations on Development and the Poultry Industry in Peru.

IVAN PEDRO BUTZONITCH, Ph.D.

B.S., Colegio Nacional Mexito de Moron; M.S., Instituto Interamericano de Ciencias Agricolas La Plata.

Botany and Plant Pathology. Major Professor: William J. Hooker, Professor.

Thesis: Mechanical Injury of Epidermal Cells in Local Lesion Virus Infection.

GLENN RICHARD CARLSON, Ph.D.

B.S., Bates College.

Chemistry. Major Professor: Donald G. Farnum, Associate Professor.

Thesis: Selected Sigmatropic Rearrangements in Norbornyl Systems.

EGBERT HSI-TING CHANG, Ph.D.

B.S., Chung Yuan Christian College; M.S., Michigan State University. Civil Engineering. Major Professor: Robert K. Wen, Professor.

Thesis: A Simulation Study of Fatigue Life of Highway Bridges.

SALLY ANN CHANT, Ph.D.

B.A., Geneva College; M.A., Ed.S., Michigan State University.

Education. Major Professor: William K. Durr, Professor.

Thesis: An Exploratory Study of Mass-Produced Fiction Books for Children to Identify Selected Social-Personal Values.

PENELOPE WIXSON CODDING, Ph.D.

B.S., Michigan State University.

Chemistry. Major Professor: Alexander Tulinsky, Professor.

Thesis: Part I: The Crystal and Molecular Structure of Tetra-N-Propylporphine. Part II: N-Formyl-L-Phenylalanine: α -Chymotrypsin Competitive Inhibitor Binding.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

- STANLEY HYMIE COHEN, Ph.D. B.S., Georgia Institute of Technology; M.A., Michigan State University. Psychology. Major Professor: John E. Hunter, Associate Professor. Thesis: Models of Attitude Change in the Passive Communication Paradigm: Information Processing, Social Judgment, Dissonance, Balance, and Congruity.
- DON EDWIN COLEMAN, Ph.D. B.S., M.A., Michigan State University. Education. Major Professor: Walter F. Johnson, Professor. Thesis: The Status of the Black Student Aide Program and the Black Student Movement at Michigan State University.
- JAMES McDOWELL COLEMAN, Ph.D. A.B., University of Louisville; M.A., Columbia University. Education. Major Professor: Joseph H. McMillan, Professor. Thesis: A Study of the Intergroup Relations Specialist and Sources of Intergroup Conflict in an Urban School District.
- JACK C. COMSTOCK, Ph.D. B.S., Michigan State University. Botany and Plant Pathology. Major Professor: Robert P. Scheffer, Professor. Thesis: Interactions of Corn Tissues with *Helminthosporium* Blight Fungi.
- JOHN KENNETH COOPER, JR., Ph.D. B.S., M.S., Michigan State University. Mathematics. Major Professor: Patrick H. Doyle, Professor. Thesis: Moving the Compact Subsets of Manifolds.
- ROBERT EUGENE COSTANTE, Ph.D. B.S., Fairmont State College; M.S., West Virginia University. Education. Major Professor: Robert O. Nolan, Professor. Thesis: A National Survey of the State Departments of Education and Selected School Systems to Determine Methods of Student Accident Reporting for the Purpose of Designing a Model Statewide Student Accident Reporting System.
- DAVID HARLAN CURRENT, Ph.D. B.A., Carleton College; M.S., Northwestern University. Physics. Major Professor: Edward H. Carlson, Associate Professor. Thesis: The Soft Sphere Model for Nuclear Quadrupole Resonance in Rare Earth Trichlorides Under Hydrostatic Pressure.
- ALICE J. DAVEY, Ph.D. B.S., University of Maryland; M.S., Cornell University. Home Management. Major Professor: Beatrice Paolucci, Professor. Thesis: Relationship of Family Interaction to Family Environment.
- WILLIAM CHARLES DEAN, Ph.D. B.A., Alma College; M.A., Michigan State University. Education. Major Professor: Calhoun Collier, Professor. Thesis: The Term Plan as it Relates to the Extended School Year: A Descriptive Study of the Perceptions of Selected Teachers and Students.
- LARRY EDWARD DECKER, Ph.D. B.S., M.S., University of Oregon. Education. Major Professor: Vandel C. Johnson, Professor. Thesis: An Administrative Assessment of the Consequences of Adopting Community Education in Selected Public School Districts.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

JACQUES C. DENIS, Ph.D.

B.S., State University of Haiti; M.S., Inter-American Institute of Agricultural Sciences.

Crop Science. Major Professor: Maurice W. Adams, Professor.

Thesis: Factor Analysis of Plant-Type Variables Related to Yield of Dry Beans (*Phaseolus vulgaris* L.)

KENNETH RICHARD DE PREE, Ph.D.

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

Education. Major Professor: Herbert C. Rudman, Professor.

Thesis: Michigan Public School Superintendents and the State Legislature: An Analysis of the Superintendents' Understanding of, and Participation in, the Legislative Policy Making Process.

BRENDA LOUISE DERVIN, Ph.D.

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

Communication. Major Professor: Bradley S. Greenberg, Professor.

Thesis: Communication Behaviors as Related to Information Control Behaviors of Black Low-Income Adults.

CLEASON SAMUEL DIETZEL, Ph.D.

B.A., Central Michigan University; M.A., Michigan State University. Psychology. Major Professor: Norman Abeles, Professor.

Thesis: Client-Therapist Complementarity and Therapeutic Outcome.

ROBERT PAUL DONALDSON, Ph.D.

B.S., University of Texas; M.S., Miami University.

Biochemistry. Major Professor: N. Edward Tolbert, Professor.

Thesis: Biochemical Studies on the Membranes of Peroxisomes and Glyoxysomes.

FRANCE DUFOUR, Ph.D.

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

Home Management. Major Professor: Carol W. Shaffer, Professor.

Thesis: Investigation of Consumer Behavior Research in the Area of Food as the Basis for Improved Consumer Protection, Education and Research.

ABEL EKPO-UFOT, Ph.D.

B.A., University of Leicester; M.A., Ed.S., Michigan State University. Psychology. Major Professors: Eugene Jacobson, Professor; John H. Wakeley, Associate Professor.

Thesis: Self-Perceived Task-Relevant Abilities and On-the-Job Performance of a Group of Newly Hired Automobile Assemblers.

JOHN WALTON ELLIS, Ph.D.

A.B., University of California; M.B.A., Cornell University.

Business Administration (Finance). Major Professor: Myles S. Delano, Professor.

Thesis: A Stochastic Approach for Evaluating Short-Term Financing Alternatives Under Conditions of Risk.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

NOLEN MYERS ELLISON, Ph.D.

B.S., Kansas University.
Education. Major Professor: Max R. Raines, Professor.
Thesis: A Survey of Urban Programs at Selected Colleges and Universities.

JOHN JAMES FORSYTH, Ph.D.

B.S., M.S., Michigan State University.
Electrical Engineering. Major Professor: Richard C. Dubes, Professor.
Thesis: Error Probability in Unsupervised Dependent Pattern Classification.

EDWARD CARL FOTH, Ph.D.

B.S., M.S., Northern Illinois University.
Business Administration (Accounting). Major Professor: Charles J. Gaa, Professor.
Thesis: An Analysis of Tax Practice with Implications for the Improvement of Tax Instruction.

URSULA FRANKLIN, Ph.D.

B.A., M.A., Michigan State University.
French, Language and Literature. Major Professor: Lawrence Porter, Professor.
Thesis: The Prose Poems of Stephane Mallarme: An Exegesis.

ROGER WILLIAM FRANZEN, JR., Ph.D.

B.S., M.S., University of Georgia.
Food Science. Major Professor: J. Robert Brunner, Professor.
Thesis: Isolation and Characterization of Bovine Lactal Immunoglobulins.

DAVID TRUMAN FUNK, Ph.D.

B.S., M.S., Purdue University.
Forestry. Major Professor: Jonathan W. Wright, Professor.
Thesis: Identification and Performance of Juglans Hybrids.

DARREL WAYNE FYFFE, Ph.D.

B.S.Ed., The Ohio State University; M.S.T., Antioch College.
Education. Major Professor: Glenn D. Berkheimer, Associate Professor.
Thesis: The Development of Test Items for the Integrated Science Processes: Formulating Hypothesis and Defining Operationally.

NELDA CAROLA GARCIA, Ph.D.

B.S., M.A., Texas Women's University.
Education. Major Professor: Peter G. Haines, Professor.
Thesis: Language Factors in the Employment of Bilingual Mexican-Americans: A Case Study Analysis.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

CHARLES THOMAS GLATT, Ph.D.

B.A., Kalamazoo College; M.A., Michigan State University.
Psychology. Major Professor: Bertram P. Karon, Professor.
Thesis: Some Rorschach Correlates of Change in Clinical Status: An Investigation of Ego Regression in Schizophrenia.

HUGH CHARLES GOAN, Ph.D.

B.S., M.S., University of Tennessee.
Poultry Science. Major Professor: Charles C. Sheppard, Professor.
Thesis: The Effect of Cage Density, Transporting of Pullets and Vaccination Against Marek's Disease on the Performance of S.C.W.L. Pullets.

HELEN RUTH GODFREY, Ph.D.

B.S., M.S., University of Wisconsin.
Education. Major Professor: Walter F. Johnson, Professor.
Thesis: A Profile of Female Trustees of Four-Year Public Colleges and Universities and a Comparison of Female and Male Trustee Perceptions of Selected Trustee Functions and University Issues.

LINA ROWE GODFREY, Ph.D.

B.S., A&T State University of North Carolina; M.A., Michigan State University.
Education. Major Professor: Russell J. Kleis, Professor.
Thesis: Role Adaptation and Career Development: A Study of Role Definition and Role Interaction Among Teachers and Teacher-Aides in Adult Basic Education in the State of Michigan.

JAMES EDWARD GRANSKOG, Ph.D.

B.S., Michigan Technological University; M.S., Michigan State University.
Forestry. Major Professor: Robert S. Manthy, Associate Professor.
Thesis: Factors Affecting Woods Labor Organization.

KURT GEORGE GRIMM, Ph.D.

B.S., University of Michigan.
Chemistry. Major Professor: William H. Reusch, Professor.
Thesis: A Synthetic Approach to Beta-Vetivane Sesquiterpenes.

ROBERT WAYNE GROSSMAN, Ph.D.

B.A., M.A., Michigan State University.
Psychology. Major Professor: Hiram E. Fitzgerald, Associate Professor.
Thesis: Limb Tremor Responses to Antagonistic and Informational Communication.

CELIA BARBARA GURO, Ph.D.

B.A., M.A., Michigan State University.
Education. Major Professor: Dale V. Alam, Associate Professor.
Thesis: School Within a School: A Description of an Educational Alternative.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

JOHN RICHARD HAIGHT, Ph.D.

B.A., North Central College; M.S., Michigan State University.
Zoology. Major Professor: John I. Johnson, Professor.
Thesis: Properties of Single Units, and Their Correlation with Somatotopic Organization, in the Second Somatic Sensory Area (SII) of the Cerebral Cortex of the Cat.

PAUL LYNN HAIN, Ph.D.

B.S.M.E., Southern Methodist University; M.A., Michigan State University.
Political Science. Major Professor: Joseph A. Schlesinger, Professor.
Thesis: American State Legislators' Ambitions and Careers; The Effects of Age and District Characteristics.

JOHN LORENZ HAUBENSTRICKER, Ph.D.

B.S., Concordia College; M.S., University of Minnesota.
Education. Major Professor: Vernal D. Seefeldt, Associate Professor.
Thesis: The Relationship of Selected Measures of Proprioception to Physical Growth, Motor Performance, and Academic Achievement in Young Children.

JOHN STEPHEN HEINEN, Ph.D.

B.A., Xavier University; M.A., Michigan State University.
Psychology. Major Professor: Eugene Jacobson, Professor.
Thesis: The Development of Work Teams in a Complex Organization.

DENNIS ROGER HENDERSON, Ph.D.

B.S., The Ohio State University.
Agricultural Economics. Major Professor: James D. Shaffer, Professor.
Thesis: Fertilizer Consumption and Industry Adjustment.

EDMUND JOHN HENGESH, Ph.D.

B.S., Ferris State College; M.S., Michigan State University.
Biochemistry. Major Professor: Allan J. Morris, Associate Professor.
Thesis: Inhibition of Peptide Bond Formation by Nucleotidyl Derivatives of Puromycin.

JOHN RUSSELL HUBBARD, Ph.D.

B.A., Hope College; M.A., Michigan State University.
German, Language and Literature. Major Professor: Stuart A. Gallacher, Professor.
Thesis: The Myth of the Hero in E. T. A. Hoffmann: The Christian Adventure of Medardus and the Musical Adventure of Kapellmeister Johannes Kreisler.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

ALBERT Y. HUNG, Ph.D.

B.S., National Taiwan University; M.S., University of Missouri; M.A., Wayne State University.
Electrical Engineering. Major Professor: Richard D. Dubes, Professor.
Thesis: Nonparametric Training Procedures for Multicategory Pattern Classification.

BENJAMIN GARBA ISHAKU, Ph.D.

B.S.E., M.S.E., University of New Mexico.
Electrical Engineering. Major Professor: Richard C. Dubes, Professor.
Thesis: Feature Extraction and Φ -Function Selection in Φ -Systems.

RICHARD EDWIN JAGGER, JR., Ph.D.

B.A., Albion College; M.S., Michigan State University.
Biochemistry. Major Professor: James L. Fairley, Jr., Professor.
Thesis: Purification and Properties of an Exonuclease (Phosphodiesterase I) From *Cucumis melo*.

GEORGE GERHARD JANZEN, Ph.D.

A.B., Bethel College; B.D., Mennonite Biblical Seminary; M.A., Michigan State University.
Social Science. Major Professor: Gary E. Stollack, Associate Professor.
Thesis: An Experimental Study of the Differential Response Patterns of Elementary School Teachers Toward Their Students.

KNOWLTON WILLIAM JOHNSON, Ph.D.

B.S., Clemson University; M.S., Michigan State University.
Social Science. Major Professor: John H. McNamara, Associate Professor.
Thesis: Police Interaction and Referral Activity With Personnel of Other Social Regulatory Agencies: A Multivariate Analysis.

RICHARD ALLEN JOHNSON, Ph.D.

B.S., Illinois Institute of Technology.
Chemistry. Major Professor: Max T. Rogers, Professor.
Thesis: Temperature Dependence of the NQR Frequencies of Periodates and Perrhenates and Calculation of Electric Field Gradients from X-Ray Diffraction Data.

JAMES KELVIN JOSLIN, Ph.D.

B.S., M.S., University of Wisconsin.
Zoology. Major Professor: John A. King, Professor.
Thesis: Visual Cues Used in Orientation by Whitefooted Mice, *Peromyscus leucopus*: A Laboratory Study.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

AKBAR KAVIANI-POUR, Ph.D.

Licentiate, Tehran Institute; M.S., Michigan State University.
Civil Engineering. Major Professor: Gail C. Blomquist, Associate Professor.

Thesis: Analytical Estimation of Thermal Properties and Variation of Temperature in Asphaltic Pavements.

EARL DUANE KELLOGG, Ph.D.

B.S., Kansas State University.

Agricultural Economics. Major Professor: Glenn L. Johnson, Professor.

Thesis: A Temporal and Spatial Model to Assist in Evaluating Investments in the Nigerian Beef Distribution System.

PHILIP ALLEN KELSO, Ph.D.

B.S., Indiana University.

Chemistry. Major Professor: Peter J. Wagner, Professor.

Thesis: Evidence for a 1,4-Biradical Intermediate in the Type II Photoreactions of Phenyl Ketones.

JOHN WINSTON KLANDERMAN, Ph.D.

A.B., Calvin College; M.A., Michigan State University.

Education. Major Professor: Jean M. LePere, Professor.

Thesis: A Study of the Effects of a Kindergarten Perceptual-Motor Development Program.

FREDERICK MARSHALL KNOCHÉ, Ph.D.

B.A., North Central College; M.A., Michigan State University.

Education. Major Professor: Dale V. Alam, Associate Professor.

Thesis: An Investigation of the Educational Opportunities for Delinquent Youth in the Selected Michigan Counties of: Macomb, Oakland and Wayne.

KRISTINE CALLENBACH KNUDSON, Ph.D.

B.S., North Dakota State University.

Microbiology and Public Health. Major Professor: David H. Bing, Assistant Professor.

Thesis: Studies on the Human and Guinea Pig Serum Complement Systems with Liposomal Model Membranes.

ARTHUR WILLIAM KOENIG, JR., Ph.D.

B.A., San Diego State College; M.M., South Dakota University.

Music. Major Professor: Paul Harder, Professor.

Thesis: The Orchestral Techniques of the Mahler Symphonies with Emphasis on the Second and Ninth Symphonies.

ROBERT JOSEPH KOSANOVICH, Ph.D.

B.S., M.A., Eastern Michigan University; M.A., University of Detroit.
Education. Major Professor: J. Geoffrey Moore, Professor.

Thesis: A Study of the Cognitive Development of Length and Area Measurement.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

WILLIAM ELVIDGE KOST, Ph.D.

B.S., Western Illinois University; M.S., Michigan State University.
Agricultural Economics. Major Professor: Vernon Sorenson, Professor.
Thesis: Trade Flows in the Grain-Livestock Economy of the European Economic Community.

THOMAS MICHAEL KRIGAS, Ph.D.

B.S., University of Illinois; M.S., Michigan State University.
Chemistry. Major Professor: Max T. Rogers, Professor.
Thesis: An Electron Spin Resonance Study of Radicals Formed by High Energy Irradiation of K_2PdCl_4 and K_2PtCl_4 .

ARUNOD KUMAR, Ph.D.

B.Sc., University of Lucknow; M.S., Indian Statistical Institute.
Statistics. Major Professor: V. Mandrekar, Associate Professor.
Thesis: Certain Subclass of Infinitely Divisible Probability Measures on Banach Spaces.

S. LALITHA, Ph.D.

B.S., Presidency College.
Biophysics. Major Professor: Alfred Haug, Associate Professor.
Thesis: Complex Formation and Energy Transfer from Photoexcited Thiopyronine to Deoxyribonucleic Acid.

HELMUT WOLFRAM LAUMER, Ph.D.

B.S., University of Chicago.
Physics. Major Professor: Sam M. Austin, Professor.
Thesis: Proton Induced Reactions on ^{14}N and ^{16}O and the Creation of Elements Lithium, Beryllium and Boron.

RICHARD ALAN LEAVITT, Ph.D.

B.S., State University of Iowa.
Chemistry. Major Professor: Peter J. Wagner, Professor.
Thesis: Evidence for Charge Transfer in the Photoreduction of α -Tri-fluoroacetophenone by Alkyl Benzenes.

CHEN YI LEE, Ph.D.

B.S.E., Cheng Kung University; M.S., Michigan State University.
Electrical Engineering. Major Professor: Kun-Mu Chen, Professor.
Thesis: Electromagnetic Scattering From a Plasma-Coated Cylinder.

KWANG YUN LEE, Ph.D.

B.S., Seoul National University; M.S., North Dakota State University.
Systems Science. Major Professor: Robert O. Barr, Associate Professor.
Thesis: Optimal Sampled-Data Control of Distributed Parameter Systems.

ROBERT FREDERICK LINDBERG, Ph.D.

B.A., Marietta College; M.A., Ohio University.
Audiology and Speech Sciences. Major Professor: William F. Rintelmann, Professor.
Thesis: Drop Forge Impact Noise: Temporary and Permanent Effects on Hearing Thresholds.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

EDWIN CHIAP HENN LIU, Ph.D.

A.B., Johns Hopkins University.
Biochemistry. Major Professor: Joseph E. Varner, Professor.
Thesis: The Isozymic Forms of Peroxidase Found in the Horseradish Plant (*Armoracia lapathifolia*).

GRACE YU-SHENG LO, Ph.D.

A.B., Johns Hopkins University.
Chemistry. Major Professor: Carl H. Brubaker, Jr., Professor.
Thesis: Part One: Dimethyl Phosphite Substitution on the Oxopentabromomolybdate(v) Complex. Part Two: A New Method For Preparation and Some Properties of Tris(acetylacetonato)titanium(III).

WILLIAM EARL LOADMAN, II, Ph.D.

A.B., Thiel College.
Education. Major Professor: Robert C. Craig, Professor.
Thesis: A Comparison of Several Methods of Scoring the Kuder Occupational Interest Survey.

HOMER H. LONGSDORF, Ph.D.

B.A., University of Kansas; M.A., University of Missouri.
Education. Major Professor: Floyd G. Parker, Professor.
Thesis: The Development and Testing of a Slide-Audio Tape Program Designed to Teach the Use of the Eric System of Information Retrieval.

JOHN EDWARD LOPIS, Ph.D.

B.A., Trenton State College; M.A., Michigan State University.
Education. Major Professor: Dale V. Alam, Associate Professor.
Thesis: Establishing a Teacher Role Perception Based on Individual Values and Beliefs.

J. C. LOVE, Ph.D.

B.A., Tampa University; M.A., Michigan State University.
Psychology. Major Professor: Bill L. Kell, Professor.
Thesis: Research in Psychotherapy: The Initial Interview as a Microcosm of the Total Therapy Sequence.

BRUCE ANDREW MANNY, Ph.D.

B.S., Oberlin College; M.S., Rutgers University.
Botany and Plant Pathology. Major Professor: Robert G. Wetzel, Professor.
Thesis: Interactions of Dissolved and Particulate Nitrogen in Lake Metabolism.

EULA MAE MASINGALE, Ph.D.

B.S., Southern University; M.S., Louisiana State University.
Family and Child Sciences. Major Professor: Robert P. Boger, Professor.
Thesis: Father-Absence as Related to Parental Role-Play Behavior.

GARTH LEE MAXAM, Ph.D.

B.S., M.S., Michigan State University.
Electrical Engineering. Major Professor: Kun-Mu Chen, Professor.
Thesis: Effects of Pseudosonic and Electroacoustic Waves on Antenna Radiation.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

- ROBERT RAILTON McKIE, Ph.D. B.A., University of Toronto; M.A., Michigan State University.
Education. Major Professor: Bertram P. Karon, Professor.
Thesis: A Clinical Study: Relationships of Anger and Fear to Aggression in Murderers and in Non-Violent Offenders.
- JAMES A. McKIMMY, Ph.D. B.S., Manchester College; M.A., Central Michigan University.
Education. Major Professor: Louis G. Romano, Professor.
Thesis: A Correlational Comparison of the Relationship Between Interpersonal Values of Teachers and the Measured Self-Esteem and Social Behavior of Early Adolescent Students in Selected Middle Schools and Junior High Schools.
- RICHARD GERALD MENDES, Ph.D. B.A., Wabash College; M.A., Michigan State University.
Political Science. Major Professor: Paul J. Hiniker, Assistant Professor.
Thesis: The Role of Intermediate Organizations in a Totalitarian Society: The Case of Communist China 1949-1964.
- STAMATIOS MYLONAKIS, Ph.D. B.S., The University of Athens; M.A., Illinois Institute of Technology.
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.
Thesis: A Study of Factors Affecting Asymmetric Induction in Additions to 3-Phenyl-2-Butanone.
- YOSHIKAZO ERNESTO NAGAI, Ph.D. B.S., University of Sao Paulo; M.A., University of Rochester; M.S., Tokyo Institute of Technology.
Physics. Major Professor: Peter S. Signell, Professor.
Thesis: Nonleptonic Decays of Hyperons.
- GEORGE HOWARD NEAL, D.B.A. B.S., M.A., Memphis State University.
Business Administration (Accounting). Major Professor: Roland F. Salmonson, Professor.
Thesis: The Evolution of Accounting Thought and Practices Related to Bond Refunding.
- KENNETH RAY NOBLE, Ph.D. B.A., Western Michigan University; M.A., University of Michigan.
Education. Major Professor: Troy L. Stearns, Professor.
Thesis: Perceived Areas of Influence of Joint Curriculum Committees Established in Selected Teacher Contracts.
- FRANCIS EUGENE NUSSBAUM, JR., Ph.D. B.S., Ohio University.
Botany and Plant Pathology. Major Professor: Everett S. Beneke, Professor.
Thesis: Developmental Studies of *Clitocybe Benekei*; Bigelow and Smith.
- BOBBY R. OFFUTT, Ph.D. B.A., St. Augustine's College; M.S., California State College.
Education. Major Professor: Max R. Raines, Professor.
Thesis: A Comparison of Self-Perceived Needs Among Black and Non-Black Males Attending an Inner-City Community College and Those Attending a Suburban Community College.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

WILLIAM LOUIS OLSEN, Ph.D.

B.S., Upsala College; M.S., Long Island University.
Microbiology and Public Health. Major Professor: Delbert E. Schoenhard, Professor.
Thesis: Bacteriophage P35 and Its Relationship to the Plasmid DNA of *Salmonella pullorum*.

ERDOGAN ORAY, Ph.D.

B.Sc., Sheffield University.
Geology. Major Professor: William J. Hinze, Professor.
Thesis: Regional Gravity Investigation of the Eastern Portion of the Northern Peninsula of Michigan.

CHARLOTTE F. OTTEN, Ph.D.

A.B., Calvin College; A.M., University of Michigan.
English. Major Professor: Lawrence Babb, Professor.
Thesis: The Herbal Tradition in the Poetry of John Milton.

VINCENT JAMES PALESE, JR., Ph.D.

B.S., St. John Fisher College; M.S., Michigan State University.
Zoology. Major Professor: Ralph Pax, Associate Professor.
Thesis: Physiological and Pharmacological Studies of Cardiorespiration in the Heart of the Horseshoe Crab *Limulus Polyphemus* (Linnaeus).

DONALD L. PARKER, Ph.D.

B.S., Spring Hill College.
Physics. Major Professor: Gerald A. Smith, Professor.
Thesis: Antiproton-Proton Interactions from 1.51 to 2.90 GeV/c.

LEON BERTON PERKINSON, Ph.D.

B.S., M.S., University of Illinois.
Resource Development. Major Professor: Milton H. Steinmueller, Professor.
Thesis: Determination of Relationships Between Local Government Services and Socio-Economic Structures in Michigan: An Exploratory Approach.

BENITO PERRI, Ph.D.

B.A., Westmar College; B.D., Western Evangelical; M.A., University of Oregon.
Education. Major Professor: Richard G. Johnson, Associate Professor.
Thesis: The Use of Telephone Therapy as a Short-Term Crisis-Intervention Counseling Technique in a Community Mental Health Center.

JOEL ALAN PLOTKIN, Ph.D.

B.A., Brandeis University; M.A., Trinity University.
Theatre. Major Professor: Frank C. Rutledge, Associate Professor.
Thesis: State Arts Council Theater Projects: An Aspect of America's Pluralistic Cultural Policy.

THOMAS ROBERT PLOUGH, Ph.D.

B.A., M.A., Michigan State University.
Education. Major Professor: Paul L. Dressel, Professor.
Thesis: The Construction of an Experimental Inventory Reflecting the Character of Student Academic Experiences.

SHAHIDA QURESHI, Ph.D.

B.S., D. J. Government Science College; M.S., University of Karachi.
Dairy. Major Professor: Robert M. Cook, Associate Professor.
Thesis: Studies on the Isolation and Purification of Acetyl CoA Synthetase from Mitochondria of Lactating Bovine Mammary Gland.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

- MARY CATHERINE RAINEY, Ph.D. B.A., St. Mary's College; M.A., Michigan State University.
Education. Major Professor: Cole S. Brembeck, Professor.
Thesis: Language Learnings of Overseas-Experienced American Teenagers.
- DWAYNE WALTER REHFELD, Ph.D. B.S., M.S., South Dakota State University.
Biochemistry. Major Professor: N. Edward Tolbert, Professor.
Thesis: Aminotransferases in Peroxisomes and Distribution of Peroxisomal Enzymes Among Leaf Cells.
- EDWIN KING REULING, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Vandel C. Johnson, Professor.
Thesis: A Comparison of the Perceptions of Married Students, University Housing Administrators and Student Personnel Administrators Concerning the Responsibility of the University Toward Programs and Services for Married Students.
- VERNON E. RICH, Ph.D. B.S., M.S., Michigan State University.
Education. Major Professor: Russell J. Kleis, Professor.
Thesis: The Development of Model Training and Continuing Education Curriculum and Supporting Rationale for a Criminal Justice System Serving a Metropolitan Region.
- GEORGE HENRY RICHARDS, Ed.D. B.S., Western Michigan University; M.A., Michigan State University.
Education. Major Professor: Charles A. Blackman, Professor.
Thesis: Collective Negotiations in Education: Implications for the Curriculum Decision-Making Process.
- FRANK W. ROCHE, Ph.D. B.A.S., University College of Dublin; M.B.A., Michigan State University.
Dairy. Major Professor: John Speicher, Associate Professor.
Thesis: An Investigation of the Personnel Management Practices of Large Scale Dairy Operations.
- REFUGIO ISMAEL ROCHIN, Ph.D. B.A., University of California; M.S., University of Arizona; M.A., Michigan State University.
Agricultural Economics. Major Professor: Laurence Witt, Professor.
Thesis: A Micro-Economic Analysis of Smallholder Response to High-Yielding Varieties of Wheat in West Pakistan.
- RALPH HUGO ROGERS, Ph.D. B.S., Morgan State College; M.A., New York University.
Education. Major Professor: Louis G. Romano, Professor.
Thesis: Health Characteristics of School Children Aged 8 to 9, in a Socio-economic Poverty Area and Their Relation to Age and Achievement.
- QUENTIN EVERETT ROSS, Ph.D. B.S., M.S., Cornell University.
Zoology. Major Professor: William E. Cooper, Professor.
Thesis: The Effect of Intraspecific Interactions on the Growth and Feeding Behavior of *Anax junius* (Drury) Naiads.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

- LAWRENCE ATWELL RYEL, Ph.D. B.S., M.S., Michigan State University.
Zoology. Major Professor: William E. Cooper, Professor.
Thesis: Evaluation of Pellet Group Surveys for Estimating Deer Populations in Michigan.
- KADHUM IBRAHIM SAIED, Ph.D. B.S., California State Polytechnic College; M.S., Michigan State University.
Resource Development. Major Professor: Milton H. Steinmueller, Professor.
Thesis: Agricultural Mechanization in Iraq with Reference to Dates, Wheat, and Barley.
- ALBERT SAMUEL, Ph.D. B.A., M.Sc., University of Madras.
Entomology. Major Professor: Roger A. Hoopingarner, Associate Professor.
Thesis: Effect of Malathion on Selected Insect and Mammalian Tissue Cultures.
- JOHN EGAN SANDER, Ph.D. B.S., University of Michigan; M.S., Michigan State University.
Geology. Major Professor: William J. Hinze, Professor.
Thesis: Bog-Watershed Relationships Utilizing Electric Analog Modeling.
- KATHLEEN R. SCHARF, Ph.D. B.S., Bowling Green State University; M.S., University of Toledo.
Education. Major Professor: Norman Kagan, Professor.
Thesis: Training of Resident Assistants and Peer Group Members in the Communication Interactional Process Skills of Emphatic Understanding of Student Feeling and Student Depth of Self-Exploration.
- CARLOS RAY SCHMITT, Ph.D. B.S., M.A., Murray State College.
Education. Major Professor: Lawrence Borosage, Professor.
Thesis: A Study of the Problems of Part-Time Industrial and Technical Instructors in Selected Michigan Community Colleges.
- JOHN HENRY SCHWEITZER, Ph.D. B.S., Rensselaer Polytechnic Institute; M.A., Fordham University.
Education. Major Professor: William A. Mehrens, Professor.
Thesis: The Effects of Coaching to Improve Scores on Verbal Analogy and Number Series Tests.
- JOHN R. SHORT, Ph.D. B.S., M.S., Michigan State University.
Electrical Engineering. Major Professor: Kun-Mu Chen, Professor.
Thesis: Modification of Scattering from Thick Cylinders and Radiation from Loops by Impedence Loading.
- HENRY PAUL SIMS, JR., Ph.D. B.S., Purdue University; M.B.A., University of Detroit.
Business Administration (Management). Major Professor: Richard F. Gonzalez, Professor.
Thesis: A Computer Simulation Experiment with Selected Communication and Individual Behavioral Variables in the Business Firm.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

LAURA SMAIL SIMS, Ph.D.

B.S., Pennsylvania State College; M.Ph., University of Michigan.
Nutrition. Major Professor: Portia M. Morris, Associate Professor.
Thesis: Nutritional Status of Preschool Children in Relation to Selected Factors Characterizing the Family Environment—An Ecological Approach.

EDUARDO CRUZ SISON, Ph.D.

B.S., M.S., University of Philippines.
Food Science. Major Professor: Lawrence E. Dawson, Professor.
Thesis: Centralized Processing of Frozen Precooked Chicken.

ROBERT WESLEY SLOAN, Ph.D.

B.A., Alma College; M.A., Michigan State University.
History. Major Professor: Alvin G. Gluek, Jr., Associate Professor.
Thesis: New Ireland: Loyalists in Eastern Maine During the American Revolution.

JAY BERNARD SPECTOR, Ph.D.

B.S., Massachusetts Institute of Technology; M.A., Michigan State University.
Economics. Major Professor: Anthony Koo, Professor.
Thesis: A Reformulation of Harrod Growth Theory.

WAYNE JOSEPH STAAB, Ph.D.

A.B., Fort Hays Kansas State College; M.S., University of Wisconsin.
Audiology and Speech Sciences. Major Professor: William F. Rintellmann, Professor.
Thesis: Comparison of Pure-Tone and Warble-Tone Thresholds.

KENNETH BISHOP STANLEY, Ph.D.

B.A., Miami University; M.A., Michigan State University.
Economics. Major Professor: Harry Trebing, Professor.
Thesis: Market Structure and Investment Behavior in the International Telecommunications Industry.

DONALD HARRISON STEYERT, Ph.D.

B.S., University of Vermont; M.S., Michigan State University.
Dairy. Major Professor: Roy S. Emery, Professor.
Thesis: Purification of a Steroid Binding Protein in Mammary Gland.

KELLER F. SUBERKROPP, Ph.D.

B.S., M.S., Kansas State University.
Botany and Plant Pathology. Major Professor: Edward C. Cantino, Professor.
Thesis: Developmental Physiology of the Zoospore of *Blastocladiella emersonii*.

RALPH ENOS TAGGART, Ph.D.

B.A., Rutgers University; M.S., Ohio University.
Botany and Plant Pathology. Major Professor: Aureal T. Cross, Professor.
Thesis: Palynology and Paleoecology of the Miocene Sucker Creek Flora from the Oregon-Idaho Boundary.

MILDRED CHRISTINE JACKSON TATE, Ph.D.

B.S., Jackson State College; M.A., University of Michigan.
Education. Major Professor: Max R. Raines, Professor.
Thesis: An Analysis of the Relationship Between Selected Personal Socio-Economic Characteristics of a Random Sample of Adult Women and Their Reasons for Enrolling in an Urban Community College.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

- JAMES FRANCIS TAYLOR, Ph.D. B.A., M.A., Northern Michigan University.
Anatomy. Major Professor: Rexford E. Carrow, Associate Professor.
Thesis: Histochemical Profiles of Rat Triceps Surae and Plantaris After Seven Exercise Regimens.
- SAMUEL JOSEPH THOMAS, Ph.D. B.A., Kent State University; M.A., Michigan State University.
History. Major Professor: Douglas T. Miller, Associate Professor.
Thesis: The Response of the Periodical Press in the United States to the Intervention of Pope Leo XIII (1878-1903) into Major Episodes of American Catholic History.
- LLOYD WILBUR TINDALL, Ph.D. B.S., M.S., Iowa State University.
Education. Major Professor: Raymond Garner, Associate Professor.
Thesis: Receptivity of Mexican-American and Anglo Rural Disadvantaged to Educational Programs.
- RICHARD ROSS TODD, Ph.D. B.A., M.A., Southern Illinois University.
Physics. Major Professor: William H. Kelly, Professor.
Thesis: Gamma Ray Spectroscopic Studies of Members of the A=141 Decay Chain.
- ANTHONY RAYMOND TRAVIS, Ph.D. B.S., Loyola University; M.A., Michigan State University.
History. Major Professor: Madison Kuhn, Professor.
Thesis: The Impulse Toward the Welfare State: Chicago 1890-1932.
- ALFRED J. TURGEON, Ph.D. B.S., Rutgers University; M.S., Michigan State University.
Crop Science. Major Professor: William F. Meggitt, Professor.
Thesis: The Role of 7-OXABICYCLO [2.2.1] Heptane-2,3-DICARBOXYLIC Acid (ENDOTHALL) In Annual Blue Grass (*Poa Annua* L.) Control in Turf.
- PAUL VAN FAASEN, Ph.D. A.B., Hope College; M.S., Michigan State University.
Botany and Plant Pathology. Major Professor: John H. Beaman, Professor.
Thesis: Systematics of the Genus *Guardiola* (Compositae-Heliantheae).
- BRYANT HINCKLEY WADSWORTH, Ph.D. B.S., University of Nevada.
Agricultural Economics. Major Professor: Vernon L. Sorenson, Professor.
Thesis: Impact of Minimum Wage Legislation on Michigan Fruit Farm Input Organization.
- L. DEAN WALDFOGEL, Ph.D. B.A., Olivet Nazarene College; M.A., Michigan State University.
Education. Major Professor: James E. Heald, Professor.
Thesis: An Analysis of Principal Behavior in Problem-Solving Situations with Individual Teachers.
- ROGER LEO WALLACE, Ph.D. B.B.A., M.B.A., Western Michigan University.
Business Administration (Management). Major Professor: R. Winston Oberg, Professor.
Thesis: A Comparative Study of Attitude Scores of Managers Toward Employees and Toward Selected Leadership Policies in Groups of Firms Which Have Either Discontinued or Retained Cost Reduction Sharing Plans.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

KENNETH OTTO WEIL, Ph.D.

B.S., Cornell University.
Food Science. Major Professor: Walter M. Urbain, Professor.
Thesis: Dielectric Property Measurements of Liquid Food Systems at Microwave Frequencies.

GEORGE ADDISON WEST, Ph.D.

B.M., Oberlin College; M.A., Michigan State University.
Music. Major Professors: Merrell L. Sherburn, Professor; Robert G. Sidnell, Associate Professor.
Thesis: An Experimental Study of Proficiency in Sight Singing a Series of Atonal Intervals with Accompanying Sonorities.

GILBERT LEE WHITEMAN, Ph.D.

B.G.A., University of Omaha; M.A., University of Oklahoma.
Communication. Major Professor: Gerald R. Miller, Professor.
Thesis: Socialization and Social Influence: Perceptions of the Basis for Persuasion as Related to Length of Group Membership.

TESS MERN WILLIAMS, Ph.D.

B.A., Oregon State University; M.A., Iowa State University.
Speech and Theatre. Major Professor: David C. Ralph, Professor.
Thesis: A Procedure for Utilizing Rhetorical Theory and the Findings of Behavioral Science and Communication Research in the Design of "High-Yield" Persuasive Messages.

MARTIN PAUL WOLF, Ph.D.

B.S., M.A., The Ohio State University.
Education. Major Professor: James H. Nelson, Professor.
Thesis: A Description and Evaluation of the Present Status of the Libraries in the Public Junior and Community Colleges in Michigan.

IRENE WONG, Ph.D.

B.S., University of Malaya; B.S., University of Singapore; M.S., Michigan State University.
Education. Major Professor: W. Henry Kennedy, Professor.
Thesis: The Effect of Pupil Feedback Concerning Student Teacher Verbal Behavior on Selected Teacher Characteristics as Perceived by Pupils.

MELVIN K. WONG, Ph.D.

B.S., M.S., University of Hawaii.
Horticulture. Major Professor: Frank G. Dennis, Associate Professor.
Thesis: Levels of Acidic Inhibitors in Peach Seeds During Stratification.

ZEMEDU WORKU, Ph.D.

B.S., Haile Selassie I University; M.S., University of Hawaii.
Horticulture. Major Professor: Robert L. Carolus, Professor.
Thesis: Developing Increased Color in Paprika Pepper (*Capsicum annum* L.).

C. EDWARD WOTRING, Ph.D.

B.A., Michigan State University.
Communication. Major Professor: Erwin P. Bettinghaus, Professor.
Thesis: The Effects of Exposure to Television Violence on Adolescents' Verbal Aggression.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1971 (Continued)

- KYUNG SANG YU, Ph.D. B.S., Seoul National University; M.S., University of Minnesota.
Horticulture. Major Professor: Robert F. Carlson, Professor.
Thesis: Comparative Study of Phenolic Compounds in Cherry Rootstocks.
- JOHN STEPHEN ZETTS, Ph.D. B.S., Youngstown University; M.S., Michigan State University.
Physics. Major Professor: Jack Bass, Associate Professor.
Thesis: A Test of the Flynn, Bass, and Lazarus Theory Using Quenched Platinum.
- LAURENCE EDWARD ZIEWACZ, Ph.D. B.A., M.A., Michigan State University.
History. Major Professor: Harry J. Brown, Professor.
Thesis: Thomas W. Palmer: A Political Biography.

CANDIDATES FOR EDUCATIONAL SPECIALIST DEGREES — FALL TERM, 1971

- JAMES J. DOWNS, Ed.S. B.S., University of Dayton; M.A., Western Michigan University.
Education. Major Professor: Louis G. Romano, Professor.
- KEITH MERWIN FORSBERG, Ed.S. B.S., Northern Michigan University; M.A., University of Michigan.
Education. Major Professor: Richard L. Featherstone, Professor.
- ROBERT LEE GIANETTINO, Ed.S. A.B., Salem College; M.A., Michigan State University.
Education. Major Professor: Shirley A. Brehm, Associate Professor.
- MARY FRANCES GREENFIELD, Ed.S. B.A., Michigan State University; M.S., University of Michigan.
Education. Major Professor: Peter G. Haines, Professor.
- MARIAN B. McKECHNIE, Ed.S. B.S., Columbia University; M.A., University of Michigan.
Education. Major Professor: James W. Costar, Professor.
- CHARLES HENRY TUCKER, Ed.S. B.S., M.A., Western Michigan University.
Education. Major Professor: James W. Costar, Professor.

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

LAWRENCE L. BOGER, DEAN

GRADUATED SUMMER TERM, 1971

DEGREE OF
MASTER
OF SCIENCE

Agricultural Economics

S. Nicholas Samuel
Seyoum Solomon

Agricultural Extension

Van Cleft Travis, Jr.

Agricultural Mechanization

Ilse Vierma Trujillo

Biochemistry

Norbert Anthony Feliss

Cooperative Extension

Education

Earl William Threadgould, Jr.

Crop Science

Robert Luscher
Paul Larry Sprankle

Dairy

Yu Yu

Fisheries and Wildlife

Jeffrey Charles Gislason
Alan Lee Koechlein
Robert Francis Quick

Food Science

Ruth Porteous Hamilton
Patrick Reginald Hill
Cecelia Kuhnley Marshall

Forestry

Rex Sheldon Baumbach
Stanton George Thomas

Horticulture

Thomas Joseph Schueneman

Park and Recreation

Resources

Alison Jean Igo
Wayne M. Otto
Timothy Curtis Smythe

Resource Development

Arie Lastario Kusumadewa
Joseph Lewie Lepczyk
Thomas Richard Lonergan
Marion M. May
James Nicholson Wade

Soil Science

Victor Gonzales Reyes

DEGREE RECOMMENDED

JOINTLY WITH THE
COLLEGE OF ENGINEERING

Agricultural Engineering

Gurol Dinc
Bruce Allen Summerer

CANDIDATES — FALL TERM, 1971

DEGREE OF
MASTER
OF SCIENCE

Agricultural Economics

Graham Anthony DeFreitas
Donald William Gailey
Michel Lee Hiser
Rodrigo R. Keller
Werner Kiene
Paul Eugene Kindinger
Alberto Edmundo
Martinez Gottberg
Per Ove Rokholt
Richard Ronald Sherlock

Agricultural Extension

Roland Paul Freund

Agricultural Mechanization

Paul Leigh Williams

Animal Husbandry

Constantine Llewellyn
Fenderson
Fernando Javier Salas-Rosas
Prasit Tummasang

Biochemistry

Mary Joyce Abbate
Diana Ice Filner
Lee M. Pike
Yi-Huei Wu

Crop Science

Songsuk Pasirakul
Umpawun Satayanurug
Donald L. Wyse

Dairy

Vern Emery Erickson
Charles Lee Goeke
Valdin G. Smith

Fisheries and Wildlife

Ronald Lowell Fobes
Roger Braden Griffith
Robert L. Hite
Dennis Alan Hoemke
James Edward Johnson
Michael Dean Marcus
Thomas F. Nalepa
Benjamin Rice Parkhurst, Jr.
Lanny Warner Reed
David Roy Rosenberger
Douglas Alan Whitcomb

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

DEGREE OF MASTER OF SCIENCE

Food Science

Cheryl Ann Groesbeck
Khimji R. Nakrani
Slamet Sudarmadji

Forestry

Melvin Jay Baughman
Kim Carlyle Steiner

Horticulture

Lyn Francis Bayer
Steven Lorne Doud
Eric Norton Hansen
Joseph Dale Vodraska

Packaging

Istvan Gyeszli

Park and

Recreation Resources

Darsan Wang

Resource Development

Larry Earl Alber
Price T. Banks
Ralph William Heiden
Timothy Alan Hiltz
Archie William Judson

Thomas Casmir Kubanek
Dennis Patrick O'Meara

Soil Science

Kendall Ray English

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF ENGINEERING

Agricultural Engineering

Ralph A. Gygas
Glen Theron Hecht
Stephen David Johnson

DEGREE OF BACHELOR OF SCIENCE

Agricultural Business

**David Lynn Allen
**James Addison Bosserd
Dale Herbert Bremer
Jerry Dwight Miller
John Leslie Tillstrom

Agricultural Economics

Jerry Allen Christensen
John Mathias Engler
Robert Raymond Thurlow

Agricultural Mechanization

Frank R. Galbavi

Animal Husbandry

Dennis Allen Cupp
Douglas Lee Umbanhowar
Philip Van Vranken
Bruce Calvin Walls
Frank Heath Williamson, Jr.
*Martha Louise Zeeb

Building Construction

David Alan Chase
Edward William Cicero
Ronald Carroll Kyser
Gregory Vern Shugart

Crop Science

Laddie Gene Winne

Dairy

*Michael John Boudreau
Kay Annette Collier
Kevin Marvin Kirk

Fisheries and Wildlife

*Louis F. Awodey
Ronald Edward Berg
Mark G. Bunarek
William Wallace Fiebig
John Andrew Culvas
Wheatley Newman
Hemmick, IV

Robert Dale Hoffman
James Anthony Kacin
*Thomas Gordon Kurtz
Barry Gene LaLonde
*David Joseph Lyon
Richard Martens
Craig Marlo Mason
Burman Frederick Misenar
Michael John Robbins
*Gary David Robinson
Charles L. Wolverton

Food Science

*Maxwell Todd Abbott
Steven O. Huyck

Forestry

Dennis Bartley Bittner
John Leslie Fitze
Gerald Albert Mathias
Kristen Lawrence Owen
*Robert Lloyd Parshall
William Gary Rogers
James Robert Ruby
John Douglas Saltzman
Paul R. Schielke
Clinton Carl Schwalm
**Thomas Nathan Trump

Horticulture Science

Hans Ruedi Feuz
John Maximillian Smydra

Packaging

Randy Lee Beard
Richard James Bitterman
Adrian George Bohonowych
James Le Roy Clark
*John Charles Dargis
Edward Joseph Gavrila
Bruce Emil Gorrie
Kenneth Bray Johnson, Jr.
Randall S. Johnson
Russell William Kent
David Austin Knoll
Christian Clark Larsen

John Clemens Lasky
Michael George Mackin
Jon B. Ogilvie
Ronald James Seay
John Paul Shavorinsky
Jerry Duane Stone
**Gary Lee Tissue
Roger R. Vanderlaan
Dennis Boyd Vass
Kenneth Michael Vilag
David Henry Wallner
Shirley Anne Winchester

Park and

Recreation Resources

*Alan James Cook
Philip Henry Dorland
Darryl Louis Meredith

Resource Development

John Charles Juntikka
Gary Taylor Schrader
Janet Gertrude Spence

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Agricultural Education

Rebecca Joyce Bartholomew
*Paul Michael Lubbers

Animal Husbandry

Martin James Gray

Fisheries and Wildlife

Daniel Stephen Oegema
Gary Lee Reish
Stephen John Thaler
Loren D. Van Oordt

Horticulture Science

Margaret Catherine Hansen

* With Honor
** With High Honor

COLLEGE OF ENGINEERING

LAWRENCE W. VON TERSCH, DEAN

GRADUATED SUMMER TERM, 1971

DEGREE OF
MASTER
OF SCIENCE

Chemical Engineering
Steven Ray Auvil

Civil Engineering
Jeffrey Ira Weisleder

Computer Science
Michael Lee Wood

Mechanical Engineering
Melvin Arthur St. John, Jr.

Mechanics
Pamela McAllister Kerr

Metallurgy
Dariush Daneshgar
Gul Jodhasing Lalvani

Kamlesh Kanjibhai Parekh
Israel Raviprakash Soans
Chandrasekhar B. Ullagaddi

Sanitary Engineering
Terry Louis Walkington

Systems Science
William A. Maas
Joseph Pratt

CANDIDATES — FALL TERM, 1971

DEGREE OF
MASTER
OF SCIENCE

Chemical Engineering
Swaminathan Mani
Dineshkumar R. Patel
William Marsden Porteous, II
Dhananjai B. Shah

Civil Engineering
Walter Edwin Deibler
Ronald Harold Flachs
Janan Ismail Sulaiman

Computer Science
Pierre Yves Van Nypelseer

Electrical Engineering
Mervin Karl Dosh
Paul Edward Piwowarski
Michael D. Sims
Suriyan Tishyadhigama

Materials Science
Manfred Doser

Mechanical Engineering
Amar Nath Gupta
Wendell Ray Shopbell

Systems Science
Richard Eugene Colony
James Vernon Hoagland
Billy Joe McDaniel
David Arthur Rector

DEGREE OF
BACHELOR
OF SCIENCE

Chemical Engineering
Edwin Charles Bretschneider
Josiah H. Carne, III
Herman Kelton Crump
David Alan Dunkel
Kenneth C. Nielsen
Kamalkishor C. Shah
*William Dee Stutesman

Civil Engineering
**John Edward Barber
Howard Douglas Fenske
Timothy Peter Gilberg
*Joseph Lawrence Good
Krystyn Henryk Gromek
Daniel James Heathcote
John Thomas Lavoy
*Carl L. McIntosh
Steven J. Nagy
Dimitris Peter Perandakos
Jon Wesley Reincke
Tyler David Smart

Computer Science
Thomas Randolph Campbell
Bruce Scott Johnson
Ray Glenn Washington
H* *Stephen M. Welch

Electrical Engineering
Joseph Anthony Doherty, Jr.
Charles Edward Mellentine
Edward Joseph Smegal

Mechanical Engineering
Timothy John Baranek
Edgar George Conley
Gerald Douglas Crimer
Dean Allen Cross
Jeffrey Allan Darst
Frederick Grant Decker
William Arthur Deuel
Dennis Allan Evans
LeRoy H. Hathon
James Kay Jenkins
Thomas Edward Long
August Maniez, Jr.

John Ronald Medler
Richard James Menge
James Alan Schmidt
*Richard A. Schultz
Birney Kenneth Summers
Michael Nelson Tanamachi
Dennis Junior Ten Broeke

Mechanics
*Wayne Coursol

Metallurgy
*Donald Randolph Fisk

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF AGRICULTURE
AND NATURAL RESOURCES

Agricultural Engineering
Jerrald Arnett Bosserd
Gerald Jack Jenkins
Dale Ray Vincent

H Honors College
* With Honor
** With High Honor

COLLEGE OF HUMAN ECOLOGY

ROBERT R. RICE, ACTING DEAN

GRADUATED SUMMER TERM, 1971

DEGREE OF
MASTER
OF ARTS

Child Development

Kathleen Margaret Baxter
Donna Rosie Howe

Family Studies

Kay Marie Fox
Barbara Kay McLaughlin
Loyann Maria Millonig
Sister Margaret Naber
Charles Evert Oesterle
Sister Bridget Marie O'Malley

Yvonne Marie Smith

Home Economics Education

Sister Irene Bernadette
DePatie
Carol Ann Hart
Karen Kay Kuechenmeister
Linda Sue Letwin
Marcia Marie Loeffler
Eleanor Harmon Marazita
Rosemary R. Sutton

Related Arts

Otto F. Krauss
JoEllyn Loehr
Jeanne Marie Zwyer

Textiles and Clothing

Joyce Leonard Allred
Carol Ann Myers

DEGREE OF
MASTER
OF SCIENCE

Foods

Martha Ann Davis
Mary Kathleen Yadrick

General Home Economics

Linda Loretta Edmonds

Pamela Ann Johnson
Shirley Anne Larsen
Sister Catherine Veronica
McFadyen
Cynthia Ann Murakami
Mary Ellen Weyer

Institution Administration

Mary Frances Clark
Sandra Ann McCabe
Margaret Bowens Pringle

Nutrition

Donna Kimberley Brooks

CANDIDATES — FALL TERM, 1971

DEGREE OF
MASTER
OF ARTS

Family Studies

Diana Lynn Bladecki

Home Economics Education

Alice Elayne Kozlowski
Sandra Joyce Levandowski

Marliss Braaten Myran
Marjorie Jane Yarger

Home Management

Lynne Ann DeSpelder

Related Arts

Letty Ann Shapiro

Textiles and Clothing

Elyse Jane Gebski

DEGREE OF
MASTER
OF SCIENCE

Foods

Ing-chung Anne Chen

General Home Economics

Bong Ui Lee

Home Economics Extension

Patricia Alexa Ladipo

Institution Administration

Barbara Jean Smith

COLLEGE OF HUMAN ECOLOGY

DEGREE OF BACHELOR OF ARTS

Interior Design

Larry Gene Lighthill
Marsha Anne Malis

James G. O'Connor
Janet Eileen Riemer

Linda Carol Tilley
Marc Randall Yops

DEGREE OF BACHELOR OF SCIENCE

Community Services

*Susan Martha Glinn
June Carol Grabemeyer
Roberta May Gray
*Sandra Kay Imhoff
Joy Faye Morris
*Beverly Ann Randall
Deborah Sue Wilberding

General Clothing and Textiles

*Sharon Ann Arvilla
Sarah Anne Coulson
Carol Sue DeGarmo
*Diane Lois Kraft
Elaine Ann Sklar

General Home Economics

Christine Ione Barnard
Willa Lynette Cogut
Lisa Eilene Cotter
Barbara Eisor Hamann
Alvonne Marie Meck

Retailing of Textiles and Clothing

Lois A. Bahle
Gloria Margaret Brandon
Ann Margaret Bromley
Terry Jean Cones
Susan Lee Damberg
Justine Barry Gudritz
Donna Lee Guzowski

*Anne Helen Henry
Sheila Frances McPherson
*Judith Lee Miller
Dianne Sedgwick
Paula Dianne Seroke
Susan Lynn Slayton
Joyce Gross Welpott
Danette Lynn Work

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Child Development and Teaching

Anita Lorraine Evans
Barbara Ann Kitchen
Janice Kay Mercer
Diana June Miller
*Janet Lucille Ronk
**Caroline Alden Vose

Home Economics Teaching

Brenda Kay Bucklew
Sandra Cheryl Churchill
Susan Jean Couture
*Nancy Rae Horski
Diann Kay Jenkins
**Korinne Elisabeth Kluth
Sandra Kay McMannis
**Kathryn Dorothy Parsons
Phyllis Lorraine Schooley
Linda Marlyn Stephens Toy
Cheryl Lynne Wilcox
Norma Jean Wiles

* With Honor
** With High Honor

COLLEGE OF VETERINARY MEDICINE

WILLIS W. ARMISTEAD, DEAN

GRADUATED SUMMER TERM, 1971

DEGREE OF MASTER OF SCIENCE	<u>Anatomy</u> Robert Irvin Klingler	<u>Pathology</u> Sheldon Shiller Diamond Rawlin Rae Herigstad Marianne Eileen Shirk	<u>Pharmacology</u> Ronald Eugene Murray
	<u>Large Animal Surgery and Medicine</u> Lee Ellis Edwards, Jr.		

CANDIDATES — FALL TERM, 1971

DEGREE OF DOCTOR OF VETERINARY MEDICINE	Benjamin Bruce Bartlett *Peter Michael Bassignani Peter Douglass Bates James K. Beebe David Baxter Brooks Gerald Alan Caron *David Allen Cobb *Warren Stanley Cohen *Gilbert Ray Conklin *Martha Henry DeWees Howard William Falker Annette Pearl Gendron *Beverly Ann Gilroy Marion Frances Gorham Michael Jay Gould *Albert Wayne Groce Russell Alfred Hansen, Jr.	*Forrest Daniel Hayes Michael Richard Herr Donald Jon Hitzemann *William Smith Holcomb *Barry Warren Jaslow John Raymond Keating Derrick Jon Leedy *Robert George Malesky *Ruthanne Lyons McCaslin Jean Marie Meesseman Richard Martin Mieczkowski Timothy Conrad Nelson Paul Oosting Gregory Arthur Pawlaczyk Virginia Joan Rambow *Richard W. Rock	*Robert Franklin Rowe *Richard David Short *Deborah Marian Smith Ronald Wayne Symonds James Willard Temple *James Fredrick Tesch *Fredric William Tinetti Paul Roger Tremblay *David Paul Tutak Jon Charles Waskiewicz *Francis Leonard Welcome Carl Louis Welti, Jr. Leslie Steven Wilner Frank Henry Wright Sannie Young Paul Clarence Zemke

DEGREE OF MASTER OF SCIENCE	<u>Anatomy</u> Eldon Eugene Cassell	<u>Small Animal Surgery and Medicine</u> Carl Gordon Grant Eugene Lee Kuhns

DEGREE OF BACHELOR OF SCIENCE	<u>Veterinary Medicine</u> Craig Andrew Reed *Wayne Allen Vine

* With Honor
** With High Honor

COLLEGE OF BUSINESS

KULLERVO LOUHI, DEAN

GRADUATED SUMMER TERM, 1971

DEGREE OF

MASTER

OF ARTS

Economics

Henry Arboleda
Günes Mehmet Arikdal

Gerard Rodgers
David Richard Wright

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

DEGREE OF

MASTER

OF BUSINESS

ADMINISTRATION

Eric Allen Adamy
Okan Akcay
William T. Alexander
Daryl Arthur Anderson
Hal Burrage Armstrong, III
George Henry Bailey
Charles William Baker
Lee C. Baker
John Allen Ball
William Edmond Barkyoub
John Lawrence Barlow
Bernard M. Basecqz
William Kerr Bawden
Danny Lee Beek
Robert Charles Benjamin
Dennis Rodney Bergeron
Robert Louis Berman
Gregory Orville Bertelsen
Richard Arlan Blanch
Richard Dale Bohn
Mehmet Sinan Bozok
John Joseph Brennan
Cephas William Bryan
David Murdoch Buckwalter
Michael Howard Burnett
Robert Lee Callander
Louis J. Cattaneo
Vichitra Chakrives
Garreth Arthur Chehames
Patrick Poh Wah Chia
Allan Leigh Cohoe
George S. Cole, Jr.
Charles Edward Demery
Gary Lynn Deur
Samuel Anthony DiMaggio
Bernard Daniel Dunn
Mustafa Durmaz
Donald Barlo Elfes
Robert Max Fiedler
Jeffery Dennis Fox
Leonard Friedlander
Ricky Todd Furr
Charles Michael Galas
Fabio Carvalho Gentil
Lloyd Clarence Gray
Gary Raymond Greaves
Robert Burns Guyot, III
Breck Fleming Hanson
Dean Orval Hilke
David I. Hill
Robert Dwight Hiner

James T. Hoitenga
Rolf Theodor Holm
Yoshinobu Horikoshi
Stephen Patrick Houlihan
Eyüp Ilyasoglu
Masayuki Iwasawa
Turgut M. Iyioglu
Salih Kâmil Kâtipoglu
John Keith, III
Steven Monroe Kirkpatrick
Christian Crilley Klages
Michael Anthony Kostrzewa
Joseph Anthony Krupansky
Chantaluck Krutkaew
Henry Owen Larsen
Geun Young Lee
Stephen Paul Lietzke
Richard Alan Lund
James William Lunn
Harold Gilbert Lutz, Jr.
Glen Anthony Maduzia
Edward Charles Maier, II
Allen Virgil Malocha
Edward James Manko
Dennis John Marrinan
Dennis Anthony Marzella
Mustafa Mazlum
James Alan McCaulley
Ken Ward McCleary
John Stewart McRorie
Harke Bonnê Meersma
Jorge Luis Menendez
Gonzalez
Carl Russell Miller
Gerald M. Miller
Steven L. Miller
James Edmund Minard
Dennis Patrick Monaghan
Thomas W. Morrissett
Young Woo Nam
David Scott Nellen
John Oswald
Roger John Payne
Edwin Stevens Perry
Carl James Pfaffenberg
M. J. Pierce
George Martin Pintar
Jerry D. Pitts
Karen M. Platerink
Raymond Michael Radigan
Anthony Thomas Randall

David A. Redding
Daniel L. Regan
Jack Burl Ridenour, Jr.
James Daniel Robson
David Henry Roche, III
Hal William Romer
Gary David Rossman
Stanley Andrew Rourke
Steven Parker Rowe
David Ross Ruble
Alan Harold Russell
Henry Raymond Salla
Rodney Raymond Sandel
Henry Alfred Schonschack
Mack Eugene Schwing, III
Richard John Semenik
Robert Elliott Shaw
Thomas J. Sheridan
John Edward Simmons
Luther Sims, Jr.
Gerald William Smith
Michael Carl Snearly
William Stephen Stark
Frederick Raebel Stehly
Dennis Arthur Steinberg
Robert Paul Steinkamp
Joe Harold Sternburgh
Charles John Stielau
Jack Alan Stone
John Edward Stover
Eric Paul Strutz
Madhu Sudan Thakar
A. Tuncer Tokol
Basil George Violand
Robert Joseph Von Hoene
John Edward Wagner, Jr.
R. Scott Wagner
William Pray Waite
Winston Branch Watkins
Arthur Abe Weiss
Jay Dennis Wells
Michael Vance Wells
James Edward Wesley
Karl Peterson West
J. Kenneth White
James Leslie White
Allan Philip Wilcox
Kenneth Paul Wilczek
Warren David Williams
Dennis Roll Young

COLLEGE OF BUSINESS

CANDIDATES — FALL TERM, 1971

DEGREE OF
MASTER
OF ARTS

Economics

Evan Dean Harrison
John Richard Malis

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

DEGREE OF
MASTER OF
BUSINESS
ADMINISTRATION

Terry Lee Agal
Faissal Abdulaziz Al-Saud
Tamer Arpaci
Lennox Windel August
Mahendra Kumar Bapna
John R. Barsodi
Victor Joseph Battaglioli
Donald Arthur Bell
John Richard Bell
Orrin Ormsby Benn
Donald S. Boston, Jr.
Michael Charles Bottenheim
Richard James Bourgeois
Spotsel Lee Boyd, Jr.
J. Mark Branson
Charles Ronald Burge
Patrick John Burke
James L. Case
Phaiboon Chongtrakul
Robert Lee Coglianese
Terry R. Cole
William Francis Costello
Jose Jacobo Crasto
Thomas Walter Cronkright
George Walker Darby, Jr.
Guy August Declercq
John Joseph Denice
Daniel Maurice Derouard
Steven Michael Dobson
David Edward Ellies
Stephen Ellsworth Ewing
Paulo C. Goldschmidt
Lawrence Michael Goodell
Leon David Grundstein
Ahmet Can Gurel

Donald E. Hackett, Jr.
James Edward Hagen
Patrick Joseph Harrison
Wayne Allen Hayenga
Lance W. Hellerman
Donald Lee Hernke
Richard Wayne Johnson
Richard Wright Kennedy
Kenneth Richard Kenny
Lloyd Angelo Kimbrell, Jr.
Lynn Eugene Knepp
Silvio Siuffo Kruschewsky
John Stephen Lane
Arthur Henry Langereis
Ronald Charles Lessuck
Helio De Mendonca Lima
Carlos Santiago Llosa-Royle
Luiz Carlos Ritter Lund
Robert Kenneth Manion
John Gwinn Markley
Alberto Edmundo
Martinez-Gottberg
Michael Patrick Marvin
Richard Bert Mathes III
Robert Nelson McKinney
Donald Clare McKinnon
Michael A. McKinnon
Richard Dennis McRae
Dean Edward Milligan
Duane Hiemenz Moore
James Robert Murner
Ganapathy Narayanan
Arthur Edward Nauman, Jr.
Steven Allan Nelson

Victor S. Pastor
Frank Joseph Pokorny, Jr.
Gondy Bhaskara Rao
Douglas Raymond Rawson
Gabriel Remolina
William Edward Remus
Charles Michael Rondelli
David Alan Rosenthal
William John Roznowski
Dale Richard Schoenheide
Gregory Brenton Shirley
Bradley Scott Shouldice
Frederick Lee Shourd
Peter Abram Smith
Hans Juergen Specht
Robert William Specker
Roger H. Stanz
William E. Stevens
John Carrol Stovall
William L. Surbrook
Stephen Arthur Swanson
Brian Frank Tancock
Charles Scott Ten Eyck
William Richard Thoreen
Kim-Yong James Tseng
Dennis Tuttle
Enver Ustay
Donna Marie Vanderberg
Oscar Eduardo Vargas
George Dewey
Wagenheim, Jr.
Paul Kelly Wheeler
Ronald A. Wilson
David Albert Zuidema

DEGREE OF
BACHELOR
OF ARTS

Accounting

Joseph K. Alejandro
Margaret Irene Currier
Gary Lee Ferris
Robert William Foster
*David Edmund Hadrill
James Williams Harris
Daniel Norman Kline
Thomas Spencer Kohlmann
*Kaye Louise LaFollette
*Douglas Lee Maatman
Osgood Lafayette
McCollum, Jr.
*Raymond George Pekilidi
John Douglas Sherlock
*Daniel J. Warmels

H Honors College
* With Honor
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Economics

**Annette Lee Adams
**Thomas Wade Alexander
Evan Charles Castetter
H David Keith Gustafson
*David Allen Hegler
Alan Frank Kochanski
*Robert P. Love
Michael Thomas Michaelson
H**David Charles Missimer
Denis Broyles Montgomery
*Trilbus August Regentin
Alan Christopher Reisdorf
William Dean Rosenberg
*Ian Colville Watson
Aron Maier Weiner
*Michael James Zimmerman

Financial Administration

Wilfred John Beauchamp
Richard Edward Belasco
Robert Paul Carpenter
Michael James Crowley
Patrick Michael George
Cameron Edward Hale
Linda Louise Linn
Scott Steven Mace
Wallace James Markham, Jr.
Lawrence Allan Patterson
Dean Roger Peterson
Gerald Henry Schuster, II
Randy Van Ittersum
Stephen James Walton

COLLEGE OF BUSINESS

DEGREE OF BACHELOR OF ARTS

General Business

Administration

Robert Owen Adloff
Robert Jacques Armstrong
Marvin Lador Avery
**Robert H. Baranek
Charles Eugene Bicy
Michael Allen Boyle
Dalton Spurgeon
Cheaney, III
David H. Cook
David E. Dambach
Laura Joy Dossin
Grant Richard Ellis
Thomas S. Foley
Robert John Goodrich
Howard Edwin Hatherly
Charles Randolph Hutson
Paul Kambly
John David Ligett
Michael David Marks
Thomas Edward Mata
Dennis John McMahon
James Edward Miller
Richard Devore Murray, Jr.
Richard Frank Perry
Robert Frederick Pryzma
Carl A. Ramroth
Stephen Allen Ramsby
David Lee Randall
Wayne Anthony Roberts
Allen Anthony Rose
Francis Charles Rybka
*David A. Self
H* Margaret Judy Shield
Michael Wayne Sipple
Robert Paul Smith
Richard Lee Snodgrass
Paul Theofanous
*Joseph Bourg Tompkins
David William Yurk

Hotel and Restaurant Management

Steven G. Adam
Thomas Arthur Barnard
Richard Galo Chew
Christopher William Corsi
Carl James Goss
Gary Warren Haberkorn
Larry Fredrick Hedeman
William Elmer Kish
*James David LaVallee
*Richard Geoffrey Lorenz
Michael Miekstyn
Richard Howard Mollenkopf
James Francis Mroz
Nicolae John Popovici
Roger Neil Remondino
Michael Peter Rooney
*Gary Steven Schettl
Randolph Lee Shantz
Thomas Arne Shield
Richard Alfred Shockley
*Jeffrey Joe Stanchina
Ernest Gilbert St. Pierre
A. Dennis Warriner
Robert Anthony Weber, Jr.
Louis Lawrence Zagarino

Industrial Administration

Thomas Gary Caterino
*Roscoe D. W. Creed
Eric James Geddes
*Robert L. Mann
Bruce Robert Metzendorf
Thomas John Schrieber
Patrick John Schymanski

Marketing

*Jack Edward Banyon
Louis Richard Battista
Richard L. Byer

Edward Joseph Cook
Raymond Joseph
Grzewskowiak
Richard L. Hodgen
Donald James Immen
*Douglas H. MacLean
Tim Irwin Meininger
Thomas Arthur Miller
James Joseph Osebold
Joseph Anthony Russo
John James Tsacoumangos
Timothy Lee Vincent

Personnel Administration

Lawrence Peter Buback
Jack H. Ford
Richard Francis Przystas
**Charles Frank Slusne
Joseph John Zelenak

Risk and Insurance

Patrick J. McNabb

Transportation

Administration

Zane Elliot Cooper
Dennis Gachewicz

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Business Education

Roger William Basler
Ann Marie Blair
Norene Dorothy Lampe
Betty Ferguson Watson

Distributive Education

*Thomas A. Robel

H Honors College
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COLLEGE OF EDUCATION

WILLIAM B. HAWLEY, ACTING DEAN

GRADUATED SUMMER TERM, 1971

Education

Barrie Abrahams
Arthur Lee Adcock
Terry Joe Adler
Marguerite Evelyn Allen
Othman Mohamed Al Saad
James Anderson
Martha Rae Anderson
Pamela Sue Anderson
Robert John Anderson
Virginia Louise Anderson
Marjorie Goodman Ando
MaryEllen Andre
Martha E. Angle
Dennis Lynn Atkinson
Gerald George Authier
Husni Ayesb
Joseph Patrick Baal
Nancy W. Badalucco
Culver Stage Bailey
Gary Allen Baker
Ronald James Baker
Bobby J. Ballard
Nancy L. Baltimore
Villiers Mini Bam
John Anthony Barbera
Lois Judith Baron
Patricia Grace Barron
John Peyton Beam
Roger Frederick Benter
William Francis Bergin
Nancy Whitmore Bernson
Joyce Ellen Berry
Barbara Jane Berthiaume
Philip Alfred Berthiaume, Jr.
Jane S. Bingham
Janice Ann Blanchard
Theodore Ronald
Boettcher, Jr.
Allen Ray Boganwright
Phyllis Vershon Boissenin
Lawrence Ralph Boone
Audrey Cloteal Borden
Gwen Elaine Bradish
Patrick Damien Brady
Michael John Bray
Kay Jeannine Briner
Thomas G. Britsch
Winifred M. Brodhead
Barbara Frances Brown
Richard Wilfred Brown
Will Moody Brown
John Micheal Bruchert
Rex G. Bufe
Jeanne Marie Bunch
Judith Ann Burkhead

Earnest Ray Burnell
Paul V. Butler
Marilyn Kizer Callahan
Ronald Charles Calsbeek
Richard Duncan Campbell
Eleanor Bigos Carlin
James Ernest Carlson
Cynthia Ann Carnegie
Fay Marie Carney
Thomas Patrick Carney
Harry Ronald Carruth
Gene Stratton Carter
George Carter
Kenis Montgomery Carter, Jr.
Lelio Alfredo Casola
Amy Davison Cato
Anne Marie Cermak
Brian H. Chadwick
Eileen Ruth Chapman
James Frederick Chapman
Judith White Chapman
Judith Gail Christian
Phyllis Ostrom Chucta
Gary Gene Clark
Frederick Roy Clemens, Jr.
Stephen Cole
Mary Lou Collins
Stephen Craig Comiskey
Hilary Eugene Cook
Georganne Irene Cosgrove
Robert Carnes Cotner
Frank Richard Coulter
Judith Caryl Coulter
Evelyn Marion Coutts
Kathleen M. Couzzins
Beverly Ann Crawford
Helen M. Crawford
Marvin William Curtis
Vera Brown Curtis
Darrell Duane DaFoe
Theresa Ann Davis
David K. Dean
E. Robert DeBoer
Keith Harold DeLong
Mary E. Dendy
Sister Adelyn Mary Denis
Lou Ann Dennis
Richard James de Spelder
Phillip John Desper
Cecil F. Deyo
John Robert Diggs, Jr.
Sharon Lee Dodge
Edwin Keenan Donaldson
Samuel Donnelly
Frances M. Draper
F. Timothy Driscoll

Kenneth Robert Driver
Richard Patrick John Duffett
Richard William Earle
Alice I. Edgerly
Ella Jean Elliott
Patricia McArthur Elmer
Sandra Lee Endelman
Carol Ann Erhart
Constance Kay Farnsworth
Thomas George Farough
Robert B. Faust
Elizabeth Anne Fee
Scott Jeffrey Felmlee
Virginia Ann Ferguson
Diego Edward Fernandez
Sister Joseph Marie
Fitzgerald S.S.J.
Edith Butler Foley
Joane Elizabeth Ford
Louise Hoard Fournier
Ruth Stow Fry
Ralph Lee Galbraith
Dianne Kaye Gates
Morton Gati
Gene Nickolas Gerard
Daniel Charles Gerrity
Janice Irene Gibson
Kenneth Joseph Gilbo
Cherie Bollaert Giles
Lynn Beth Gillespie
Marianne Kull Gilmore
Clifford Alvin Girard
Eunice Swartz Good
Donald James Goodman
Katherine C. Gordon
Patricia Esther Gravelle
Frederick Roy Green
Eugene Harland Greer
Janice Louise Griffin
Steven P. Groters
Arnold Gene Grover
John Thomas Groves
Roland Therold Grow
Suzanne L. Grubb
Paulette Margaret Gruber
Charles Elton Grundstrom
Jan Murray Guldbrandsen
Marjorie Lee Gundy
Dennis Walter Haberichter
Jane Ann Hackbardt
Patricia Frank Hagle
Margo Sue Hahn
Jeanette Dowdle Halladay
Kathleen Sue Hanley
John Robert Hanna
Larry Alan Harp

DEGREE OF
MASTER
OF ARTS

COLLEGE OF EDUCATION

Education (Continued)

Patricia Cavan Harris
Christine Ruth Harrison
Jeffrey Patrick Hartnell
Sandra Mae Hatton
Roselle Elaine Havens
Dorothy Elizabeth Henry
Philip Joseph Hertel
Harold E. Hicks, Jr.
Jeanne Anne Hill
Linda Jean Hill
Sharon Rotzell Hilton
Marijo Himburg
Ethel Jones Hodges
Helen Harger Hoenshell
Melvin Hoekstra
Earl Eugene Holcomb
Gary Holland
A. Joseph Hollerback
James Arthur Holmes
Vance Thomas Holmes
Robert Elmer Holzhei
Ronnie M. Horiszny
Thomas Dale Hornik
Robert Titus Huber
Joseph J. Hubert
Catherine Elizabeth Humes
George H. Ihler, Jr.
James Orville Innis
Hooshang Iravani
Norma Nutter Jackson
Priscilla Thomson Jackson
William Randall Jacobs, Jr.
James Jager
Rosalie Bennett Janowiak
Judith Lee Jinkinson
James Brian Johnson
Jane Rose Johnson
Louis E. Johnson
Okla Warren Johnson
Shirley Ann Dilley Johnson
Wyvonne Johnson
Michelle Heppler Johnston
Shirley Jean Jordan
Kay Rosanne Joseph
Frederick Richard Junger
Diana Lea Kamlay
Marcia Anne Kassir
Robert Dean Katsma
David Charles Keller
David Alan Kelley
Phyllis Karen Kelley
John Junior Kempker
Sister Ann Kernen, S.C.N.
Betsy Ann Kiebler
Esther Griffen Killman
Betsy Browne King
Jerome P. King
Ruth Elaine King
Gregory Alfred Kingdon
John Joseph Kirchgessner
Diane Marie Kline
Henry Parsons Kniskern, III
Esther Zahniser Knox
Marilyn Jane Kopp
Victoria Trinka Kress
Brian Joel Krontz
Pamela Sue Kubach

Nancy Ann Kuncio
Allan Kenneth Lake
Myrtle Martha Lander
Barbara Butler Lansing
Carol L. Lapham
Jeannine Lapierre
Kenneth John Lardie
Louis J. LaScala
Lloyd Wesley Launstein
Therese Marie Layne
Anna Lee Ganser Leas
Joo Woon Lee
Anna E. Lema
Judith Kaye Lennemann
Katherine Downes Lewis
Kathleen Deanna Licari
Dalverne Dan Licht
Joan Alice Liebner
Anthony Mark Longhini
Charles L. Loubert
James Edward Lowden, Jr.
Charles Henry Lowery
Colin Edward Lumby
Gatis David Lusia
Eunice M. Lutz
Robert Smith Manley
Dominic Vincent Marino
Norma Ann Marquard
Josephine Talbot Marshall
Robert Kenneth Marshall
Frank Harold Martella
Ruth Ann Martin
Judy Ann Martus
Khalid Abdullo Masaud
David Martin Mason
Willard Hazen Mason
Lillian Dolores McFadden
Nancy Helen McGuire
Gwyndola K. McIntosh
C. Douglas McKay
David William McNeilly
Joan Carol Merriam
Geraldine Marie Miller
Yasuko Mimura
Richard James Minarik
Paul Chester Miszewski
Robert L. Mohr
Daniel Paul Morgan
Clare Edward Moritz
Richard Paul Moscovic
Evelyn Marie Mulka
Ruth Alina Munro
Robert Anthony Muraski
Richard Clark Murphy
Betty Strand Murray
Loren Edward Musilek
Eleanor Emlen Myers
Sharon Gay Mytyk
Diana M. Nagy
Fred Itsuki Nakagawa
Mary J. Namey
Anne Madsen Nason
Linda Adema Neely
R. Neil Nelson
Victor Ronald Neufeld
Stephen John Newman
Russell Larson Newton, Jr.
Douglas Robert Nichols
Warren Richard Niemi

Nancy J. Nugent
Sandra Lee Ohngren
Frances M. Okoren
Janis Marie Olson
Bessie K. Orphan
Pamela Sue Orr
Tim Allen Page
Margaret June Palmeter
Ernest Leon Pasteur
Patricia Marie Patterson
Nedra Jean Patton
Marian L. Payne
Elliott Roger Pearce
Thomas A. Penrod
Shirley June Peppel
Marcia O. Perkins
Ellen Core Perry
Louis Warren Perry
Raymond E. Perry
Nancy Eleanor Petersen
John Earl Peterson
Roberta Dye Peto
Janice Haysmer Pfeifer
Evonne T. Picard
Dennis Dean Pilmore
Anna Marie Pizer
Jeanne Carol Planet
Keith Charles Pochert
Patricia Louise Pohl
Joseph Polano
Barbara Pettersch Post
Maureen Blair Postal
Judith Jane Potter
Carol Lynne Powell
Jim Predmore
Donald Alan Pribble
Ruth Ann Pries
Ibrahim Mahmoud Qousi
Jerry Lynn Redding
Gloria Siemen Reed
Ronald Doyle Reed
Mary Reinke
Ronald Duane Reitenour
Belinda Lou Wade Rhoads
Keith Lloyd Richardson
Ronald Dale Rickard
Don Edward Ricks
Una Lynette Ridley
Gary Cecil Roberts
Kathleen H. Rock
Anselmo Landin Rodriguez
Ronald Raymond Rogers
Gayle Ruisard
Joan M. Russell
Gordon Lee Sabin
Lawrence Joseph Saltarelli
Joanne Sylvia Samson
Edward Robert Sandri
Joanne Sands
Elizabeth Ann Sangerloo
John Michael Scalabrino
Jon D. Schaffner
Sarah Sue Schendel
Kathleen R. Schims
Rodney D. Schmidt
Charles Clarence Schneider
Sister Jacqueline Schoenborn
Mary Jo Scholten
Ruth Marie Schoonover

DEGREE OF
MASTER
OF ARTS

COLLEGE OF EDUCATION

Education (Continued)

DEGREE OF
MASTER
OF ARTS

William Charles Schuerman
Robert Francis Schultz
Linda Joan Schurman
Stephen Michael Schyck
Glenn A. Scott
Toni Jo Scott
Zelda Ann Seidenberg
Harold Selkowitz
Larry Douglas Serrell
Stuart Robert Shafer
Stella M. Shelton
Jerry Carl Sherman
Mary Ann Sherwood
Peter Francis Siler
Rozan Margaret Sinnott
Lennie Lynch Skipper
MaryAnn Slattery
Sandra Rae Slaughter
Jeffrey Allen Smith
Norine Sarah Smith
Martha Ruth Smydra
Joana Snow
Edmund David Socha
Frank Junior Sokolowski
Karen Jean Sommer
Dean F. Souden
Harold James Spooner
Kenneth Laurin Springstead
James Milo Stapert
Franklin Paul Starks

Madelyn Stieg
David Russ Strekar
James Otis Strong
Linda Jo Strong
Thomas Glenn Sura
Charles Wesley Sussex
Thomas M. Swiss
Alexander Masaru Tanji
Robert L. Taylor
Robert Victor Teets
Richard James Tenelshof
Ronald Carl Tesch
Lynn Palmer Thompson
Susan Kaye Thrash
Mary Frances Toms
Sally Anne Tonnemacher
Ann Clara Treiber
Leonard Arnold Tromblay
John S. Trott
Arkorn Tulardilok
Mary M. Urbin
Thomas Arthur Urbin
Albert Gerald Urpsis
Kenneth Sylvester Vallieu
Lois Ilene Van Beek
Peter Randall Vanden Berg
Thomas Allen Vander Weele
Elaine Marie Van Dyk
Thomas C. Van Dyke
Joanne Marie VanPelt
Donald Ray Van Putten
Judy Kay Veeneman

Marcelyn Ellen Veenendall
William Bart Vescolani
Jerry Lee Wabeke
James Allen Wagner
Nancy Lynn Waits
Georgia Bertha Walker
Andrea Joy Kochek Walsh
Carol Lynn Waskalis
Jerry J. Watson
Sharon Ann Weaver
Scott Alan Weber
Evelyn Ann Weiland
Richard C. Wentworth
Gilbert Joseph Wermuth
Martha Ann Wessinger
Thomas E. Wetli
Edward L. Whalen
George Stanley White
Allan Gilbert Whitlow
Michael Robert Wiegand
James Jay Wiley
Andrea Rees Williams
Marcia Eileen Wilson
Sister Mary Sheila Wood
Alice Marie Workinger
June Hitomi Yamamoto
Roveen Louise Yoder
Dianne Margaret Yoesting
Carrie Jackson Zackrie
Marlin L. Zeinstra
William Robert Zoller
Judith Fay Zwiers

CANDIDATES — FALL TERM, 1971

Education

DEGREE OF
MASTER
OF ARTS

Joon Sang Ahn
Radi Ahmad Al-Wakfi
Juan de Dios Arias S.
Raul Miguel Arizpe
Charles Danford Austin
Bonnie Jean Bannen
Signe Hegge Bates
Ardis Kathleen Bauer
Charles Richard Beall
David Lynn Benjamin
Nancy Ann Benjamin
Wilma Eileen Bennett
Paula Dee Bladen
Sarah Joselyn Boron
Michael Stephen Botner
Terry Evert Bowerman
Clifton John Bowers
Gloria J. Bradford
Jack Arthur Buege
Jeanne Ann Bussey
Larry Gene Cable
Mary Jane Carrier
Harry Joseph Chancey, Jr.
Claude M. Chapman
Yvonne Jeannette Chapman
Margaret Ann Charron
Maliwan Chindapol
Donald Norman Clover
Judith Lucile Cole
Julie Ethel Colish

Sondra Dee Cox
Camara Crooks
Anne Dando
Loretta Jean Dear
Cornelia E. De Lange
Emmalyn Dickinson
Dena F. Doner
Raymond Edgar Durham
Jack Louis Dykstra
Elaine Mary Elliott
Linda Jane Evans
Stephanie Ann Figula
Randal Harvey Flutur
James Scott Foster
Edward Ambrose Francis
Jessie Jean Fry
Jean Ann Gamber
James Alvin Gerber
Gary William Gerdts
Jud Murrey Gildersleeve
Laurie Simon Goldstein
Owen Dickens Goslin
LeLa Marie Grant
Christopher E. Haight
Loretta Ann Hansen
John Mitchell Harrison
Barry J. Hertz
Shirley Sue Hoyle
Dean Enoch Jackson
Fred Daniel Johnson
Kathleen Goodenow Johnston

Carl John Kaechele
Bong Jong Kim
Elaine D. Kleman
Nellie Tebo Hardy
Edward Frank Kobosh
Donald E. Komiska
Joseph S. Koziol
Roger Dale Landvoy
John Aldrich Lange
Douglas Walter Lankton
Russell Gordon Latchaw
Sharon Kay Lineman
Ruth Carmen Lipscomb
Richard Allen Luczak
Barbara Lynne Maier
Bruce Alan Mance
Peter Christian Mason
John William McCaffrey
James Ray McKinney
Nancy Kay Meddaugh
Patricia Lee Messenger
Sarah Elizabeth Morrow
Beverly Ann Moss
Douglas James Mumby, Sr.
Rose Marie Mustric
Elesa Ann Nelson
James N. Nevels
David Lee Nicholson
Paul Michael Oliaro
Thomas Albert Overton
Dorothy Gray Owen

COLLEGE OF EDUCATION

DEGREE OF MASTER OF ARTS

Education (Continued)

Kanit Peachavanish
Sharon Lynn Plavnick
Maria Lucia Cabal de Posada
Rita Adele Rapp
Judy Kay Recker
Dennis Dean Rosen
Dewight Eugene Runyon
John Thomas Ryan
Eunice Santa Ana
Sarah Sue Schendel
Judith Elnick Schneider

Hosein Sepasi
Karl Frank Sharkey
Mary Peden Shepard
Robert Shoop
Elida Sigelmann
Joan Glaza Smith
Mary Elaine Kazmark
Stephen
Gary Edward Stewart
Richard Philip Stubbs
Elsa Avelino Tenmatay
Jack Durand Terrell
Mary Margaret Tiell

Margaret Laird Tietjan
Minnie Thompson Tillman
Patricia Weigel Utter
James Merle Vandermeulen
Frank Michael ViVio, Jr.
Betty Lois Washington
L. John Wenglarski
Harold Clifton Wheeler, Jr.
Elizabeth Jane Williams
John Lawrence Witt
James S. Yonker
Sandra Lea Youngblood
Dawn J. Ziegler

DEGREE OF BACHELOR OF ARTS

Elementary Education

*Linda Kathleen Akin
Sylvia Diane Albert
*Julie Kay Anderson
*Jacalyn Anglin
*Louise Ellen Ashmun
Fred Perry Bachman
John Phillips Baker
William Andrew Balser
Joyce Annette Barbret
*Deborah Elaine Bartlett
Michael Emory Bell
Pamela Kay Boyer
Lisa Ruth Breece
Deborah Faughan Broderick
*Louise Duncan Brown
Marijean Faber Buckley
*Janet Ruth Caldwell
*Rochelle Ellen Camens
Hedy A. Cohen
*Anna M. Cosgrove
Mary Frances Coughlin
Sandra Jeanne Cripps
Marilyn Currie
Roberta Ann Davis
Cathleen Marie Dolan
Cynthia Lynne Drew
**Grace Sandra Dunbar
H**Jamie Carol Duncel
Susan Marie Edwards
Colleen Mary Farrell
Doris Arleen Felton
Ellen Melvina Ferguson
*Deborah Irene Fine
*Linda Kay Fisher
Sandra Josephine Fortier
Karyn Lee Fournier
Carolyn Ann Franzel
Wendy Lee Gerard
Mary Frances Giacchina
Lynnda M. Giddings
Ivory Adreena Gilmore
Susan Johnson Glynn
*Mary Elizabeth Goodson
*Diane Louise Graves
*Shelley Allison Gribble
*Rose Anne Grybowski
Janice Kay Guldenzoph

H**Janice Gould Gutwald
Diane Hamlin
Diane Sandra Harrington
Carolyn Joy Henderson
Vicki Lynn Heotaky
Sandra Lynn Hicks
Carol Lee Hiske
*Virginia W. Howard
Diane Olga Hudson
*Wendy Darlene Hunt
Lulu Jane Jarrett
*Leona A. Johnson
Shirley Virginia Dixon
Johnson
Kathleen Ann Kelly
Barbara Ellen Kempter
Mary Ann Kennedy
*Rick C. Kent
Sandra Ann Kilbourn
Mary Louise Kimmel
Michael Douglas Klann
Mary Jean Krankel
*Carol Ann Krieger
*Barbara Anne Krueger
Mary Christine Krug
Eleanor Judith Kulis
Valkerie Lau
Pamela Ann Liebold
Laura M. Liebrock
Perry Martin Lopucki
*M. Patrice Marker
*Cheryl Lynn Martin
Larry Douglas McClellan
*Patricia Lee McDanold
Catherine Ann McDowell
Marianne McWhirter
James Irwin Medford
Linda Bemsel Mertz
Kathryn Louise Miller
Sharon Marie Mitchell
Susan Mary Mitchell
Barbara Jean Montgomery
Jane Mordenski
*Katherine Mary Ogg
Joyce Hill Olivier
Phyllis Celina Osterlund
Louise Marian Pargoff
*DiAnne Marie Pellerin

*Lawrence Andrew Pelon
Christine Dianne Perry
Susan E. Pesonen
Susan Ann Pinter
Margaret Mary Prusinski
Kay Ann Pyciak
Kathryn Claire Radke
Nancy Garberick Raynes
Barbara Jane Reck
Gail Louise Resler
Joan Carol Ropek
Maureen Mary Savage
Sue A. Scheitler
Elizabeth Ann Shelden
Cherilyn Jane Smith
Martha Sharon Smith
Rachel Snyder
*Joseph Anthony Sopko
Jill Eileen Staup
Myra Ann Steinhaus
*Marcia Lynn Stern
Linda Lorraine Swan
Kathleen Ann Swank
*Diane Mary Tanton
*Janet Lynn Tautz
*Richard Leon Thill
Judy Diane Tissue
Margaret Ellen Trantham
*R. Michael Traugh
Sally Ann VanDenburg
*Carol Ann Van Haaren
Kathleen Marie Vaughn
Jacquelynn Ellen Vaught
Sharman Irene Vessells
*Ann Elizabeth Walker
Philip Denison Walker
Krista Sue Waterson
Mary L. Wegner
*Marsha Lyn Weingarden
Karin Shirley Wells
H**Pamela Kay Wheelock
*Nancy Jo Williams
*Mary Christine Wilzer
Julie C. Yinger
Judith Anita Yokley
Betty Susan Zdravkoff
Wendy Ann Zehnder

H Honors College
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COLLEGE OF EDUCATION

DEGREE OF BACHELOR OF SCIENCE

Health, Physical Education and Recreation

Donald Lee Argo
Thomas Eugene Barnum
*Stephen Charles Beckholt
Robert Michael Black
Barbara Louise Carter
Patricia Ann Covert
Ronald C. Curl

Karen Kit Frey
*Jodie Mitchell Galdeen
Gerald Lee Geistler
Demitri Gula
Ronald J. Joseph
Stephen James Kough
Michael James Long
Michael Don Marshall
Michael Craig McMaster
Sharon Lee Pribble

James Arthur Raye
Jill Jeanette Schiffer
Cydney Jeanne Steeb
Timothy Frank Thomas
H**Cynthia Ann Truhar

Industrial Arts

Matthew Franklin Balgenorth
Bruce V. Powelson

COLLEGE OF COMMUNICATION ARTS

HERBERT J. OYER, DEAN

GRADUATED SUMMER TERM, 1971

DEGREE OF
MASTER
OF ARTS

Advertising

Marcial Burgos
Gregory David McMahon
Michael Robert O'Neal
A. Leslie Vasconcellos, Jr.
Hal Brantley Wansley, Jr.
Gary David Weintraub

Audiology and

Speech Sciences

Teresa S. Beachy
Lynn Marie Fontanive
Elissa Lynn Gatlin
Nancy Louise Glennan
Carol Joy Lappin

Bernine Sara Lemish
Jeanette Ilene Manning
Gail Frances Poole
Shelley Schwimmer
Martha L. Spieth
Irene Vlases

Communication

Robert Charles Bigelow
Jerry Lee Buley
Blythe Rainey Cuyler
LaNita Ramona Haith
Roberto Maia Martins
Michael R. Rohla
Thaddeus Sampson
Grace Katherine Walker

Journalism

Audrey Marie Aarons
Darunee Chavachat
Edward Cleary Hutchison
Charles Joseph Namit

Television and Radio

Frederick Kenneth Bambrick
Jerrold David Beckman
Allan Shiu-Luen Cheung
Robert H. Prisuta
Arthur Boyden Reis, III
Arthur L. Savage, Jr.
Albert William Snyder

CANDIDATES — FALL TERM, 1971

DEGREE OF
MASTER
OF ARTS

Advertising

Frances L. Fruit
David McClellan Love
Edward Taylor Wilson

Audiology and

Speech Sciences

Beverly Ann Goldstein
Susan Catherine Gray
Nancy Cooper Karabacz
Ann Louise Rothman

Communication

John Jarvis Blohm

Akiba A. Cohen
Marcos Alejandro Gallardo
Syed Baqir Hassan
Diane Denise Henderson
Mary Virginia Parish
Tsuneyasu Takahashi

Journalism

Carolyn Dennis
Dalrymple M. Harris
Kent Richards Middleton
Allen William Phillips
Nicholas O'Donnell Sharkey

Television and Radio

James Arnold Cherry
Brian Robbins Downey
Thomas Michael Girocco
Thomas Andrew Hardy
David L. Kelley
David Owen Korte
Joseph Michael Mc Hugh
Elliott Hoffman Myers
Joey Blaine Reagan
James Patrick Riggs
Gary Lee Steinke
William Conrad Stoeffhaas
Ronald Francis Walter

COLLEGE OF COMMUNICATION ARTS

DEGREE OF BACHELOR OF ARTS

Advertising

Joseph Russell Badamo
William Edward Beaver
Thomas Lee Bode
Mark Lawrence Carlson
Richard William Cobb
Gary Arthur Cochran
*Jane Ann Coury
Todd Douglas Fredericks
*Kim Thomas Hartman
Charles Hawley Haynes, Jr.
Claude M. Holcomb, III
Joel Colling Iverson
George Robert Jacobs
John Robert Joslyn
Michael Anthony Koppy
Gregg Alan Loria
William Ronald Lowry
Gerald Anton Martin
John Barry Meier, Jr.
Mark Joseph Pohnl
Susan Carol Shepard
*Richard John Sikorski
Dayne Craig Thomas
Melody Sue Weist
Sylvia Joann White

Audiology and Speech Sciences

Eleanor Dianne Brown
H*Brenda Jean Butler

Communication

Terrill Ann Brooks
*Margaret Mary Brophy
*Paul Gus Carlos
John Kenneth Cooper, Jr.
Ann E. Corwell
H**Roger Allaire Guiles
Christopher Donald Hensick
Robert Bishop Kane
Kirk Dennis Rand
H**Robert James Rininger
Barbara Ann Walker

Journalism

H*E. Lucy Burde
Brenda Jay Coglianese
Karen Lavette Fitzgerald
James Elton Kenyon
Thomas Walter Muchka
Patricia Marie O'Neill
Marlene Rhoda Passell
Susan Ann Steeves
Valarie Ann Thomas
Richard Arthur Van Horn
Robert Stewart Williamson

Television and Radio

Robert George Baldrica
Stewart William Blakley
James Walter Buckley
Jeffrey Lynn Cardinal
*Ronald J. DeMunter

Terry Charles Ficorelli
Jan Marchetia Johnson
Richard Arnold Lee

H**Grant J. Miller
Ronald Charles Orzell
Robert Joseph Planck
Steven Lynn Reynolds
Elliott John Smith
*Ralph Ivan Van Kuiken, Jr.
Anthony John Van Oyen, Jr.
Robert Bruce Witting
Terrance James Wunderlin
Theodore L. Wyckoff

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Audiology and Speech Sciences

Marta Ellyn Braver
Gary Glenn Johnston
*Susan Elizabeth Jones
Gloria M. Kilander
Carol L. Pawlick
Karen D. Sipple

Communication

*Susan Kay Benjamin
Hamilton Edwin Calvert, Jr.
Timothy Wallace Kingman
Karen Diane Kossack
*Alan Lee Krause

COLLEGE OF ARTS AND LETTERS

RICHARD E. SULLIVAN, DEAN

GRADUATED SUMMER TERM, 1971

DEGREE OF MASTER OF ARTS

Art Education

Sue Dilts
Dorothy Joan Tobias Feters
Eldon Elwyn Murphy

Art History

Katharine Elizabeth Contreni
Margaret Thorp Miller
Margaret Abigail Slemmer
Carole Huelsberg Snodgrass

Art Practice

Jimmie Jerry Bischoff
Myrna Gordon Goldberg
David Joseph Kelly
Nancy Jane LeBeau
Gerald Joseph Mackey
Bryant Lowell Mitchell
Bruce A. Rae
Kenneth Dale Tschanz

English

Sister Patricia Brady
James Paul Colando
Carol Margaret Hoogstra
Sandra June Jablecki
Susan Jane Koch

Katherine Kaigler Rizor
Marilyn J. Roberts

English-Secondary School Teaching

Patricia Fobear Hart
Carolyn Anne Lombard
Pamela Gay McNeil
Susan Lynn McPhee
JoAnn Arlene Medler
Inez Ashley Ross
Charlotte Ethel Tannheimer
Robert Bruce Warren

French

Olivera Ljasko Bukovinsky
Barbara Louise Jaeger
Arlene Carole Malinowski
Karen Sue Schichtel
Glenn Edward Scott, Jr.
Edgar Thomas, Jr.
Charlotte Helen Wright

History

Larry Francis Brya
Alan Frank Dyer
Robert Michael Goldman
Sister Dean Grismer

William Clarence Haverkamp
Melita Spelbring Hillman
Pamela Beth Holcomb
Marguerite Louise Jackson
Joseph Anthony Maresca
Charles W. McClellan
Roger Harvey Ridley
Richard Meryl Rollins
Costan Anthony Spina
Richard James Terrill
Lamarr Thomas
Richard Walter Thomas
Flossie Marie Wert

Philosophy

Arthur Ronald Miller

Spanish

Marthena Bosch
Leslie Dawn Jope
Diane Rae Kurtz
Susana Cabeza de Vaca
Lukomski
Guillermo Carlos Socarras

Theatre

John Michael Farrell
Elizabeth Ann Huettelman
John Carl Schuldt

DEGREE OF MASTER OF ARTS FOR TEACHERS

English

Robert Anthony Marcero

History

Gerald William Zielinski

Spanish

Suzanne Dee Scoggin

DEGREE OF MASTER OF FINE ARTS

Art Practice

Lynn Maxwell Hammer

Louise H. McCagg

DEGREE OF MASTER OF MUSIC

Applied Music

Dennis Duane Anderson
Clayton Dean Hochhalter
Mary Immaculata Levack
Evelyn Weiss Mariani
Robert Andrew Scott
David Conrad Sebald

Music Education

Patricia Ann Johnson
Chadwick
Tommy LeRoy Davis
Arne Thad Hegerberg
Frances Ann Jones
Marilyn Kaye Jones
William Barton Knevelt
Nancy Harrington Lange
Paul Joseph Lipa

Diane Patricia Mahon
Danny Hugh McCormick
Terry Edward Odelli
Douglas Victor Smith
Gwendolyn LaVera Tate
Laura Margaret Trahan
Gene A. Wabeke
Marcia Lorraine Welch
Linda Patricia Young
Sister Marcia Mary Zofkie

COLLEGE OF ARTS AND LETTERS

CANDIDATES — FALL TERM, 1971

DEGREE OF MASTER OF ARTS	<u>Art Education</u> Carmen Kossayda	<u>German</u> William Harper Girvin, Jr.	<u>Linguistics</u> Marvin Richard Coates Barbara M. Horvath Rochelle Marion Petta Powtong
	<u>Art Practice</u> Dawn-Elizabeth Martin Ronald Charles Varga	<u>History</u> David Morgan Baehler Frank Matthew Chiteji Michael James Conwell Carol Evelyn Davis Janice Lynne Ekin Stephen Hamilton Hyndman Lawrence Sheldon Rudner Pamela Margaret Stach Benjamin Alan Sweetwine Bruce Campbell Tobin	<u>Philosophy</u> James G. Hanink
	<u>English</u> Linda Jo Farquhar Susan Lynn Gaylord Kenneth R. Haworth		<u>Russian</u> Shia Hua Wang
DEGREE OF MASTER OF FINE ARTS	<u>English — Secondary School Teaching</u> Larry Webb		
	<u>Art Practice</u> Wilmer Phillip Arnold		
DEGREE OF MASTER OF MUSIC	<u>Music Education</u> James Herbert Hunt	Floyd Matthews, Jr.	June Ann Raad
DEGREE OF BACHELOR OF ARTS	<u>Art History</u> Rita Thomas Herrala *Janet Mulholland Wrisley	<u>History</u> Vera Gisela Kroetz Laura Jean Ramey Thomas Standen Sawyer Barry Alan Walker	DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION
	<u>Art Practice</u> Judith Wibel Bevan *Elaine Lillian Halleck Christine Kreamer	<u>Humanities</u> H**Ann Marie Baumler *Barbara Lee Brown Philip Michael Brown David Ross Brownell Richard A. Burke	<u>Art Practice</u> *Laura Jo Arbaugh *Adele J. Cherniak **Nancy Donohue Colletta Charlotte Ellen Currier **Helen Mary Edmunds Judy Ann Garland Susan Marie Pouillon Nancy Louise Schwartz Barbara Ann Van Meter Linda Lee Weil
	<u>Classical Studies</u> *Rochelle Horton Colestock Seth Warner McEvoy	H**Jo Anne Heath William Hales Kaiser Mary Kathryn King Christie Ann Peth H**Jodi Martin Stewart *Randall George Swetish	<u>English</u> *Sharyn Allegra Ambbs *David Mark Brown **Collen Douglas Fix Carol LaVon Fleury *Marlene Gonik Laura Elane Upton Heiden *Lee Coventry Kessler Donna Jean Lappin Susan Jane Lauer *Susan Lynn Lyman Robert Joseph Martin Patricia Marie O'Neill *William James Reisdorf *Dayna Lee Reynolds
	<u>English</u> Ana Lizette Bishop Rosemary Lee Carter Ellen Christine Cassidy Christine Anne Chamberlin Karin Marquerita Demmer Stephen Leslie Gysel Daisy E. Hayes David Delano Heal Carla Jean Kennedy H**Edward Anthony Licitra	<u>Philosophy</u> Edward G. Weiss	
	<u>French</u> Susanne Louise Veneklasen	<u>Spanish</u> **Sherryl Dee Harper H**Mary Lynn Mason *Tyrone D'Orsay Robinson	
	<u>German</u> Linda Ann Burke	<u>Theatre</u> Katherine Irene Hewett Deborah Winifred Tomlinson	

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COLLEGE OF ARTS AND LETTERS

DEGREE OF BACHELOR OF ARTS

English (Continued)

Judith Ann Robinson
H** Sylvia Bonnie Ruekberg
Frederick Carl Shier
Mary Michelle Steeb
* Jacqueline Elizabeth Walker

French

** Janet Ann Ballinger
Myriam Blaszka Martin
Kathleen Marie Richards

H** Marilyn Zellar Sturgell

German

Pamela Neal Doherty
Mary Janet Stauffer

History

Nancy Elizabeth Baird
H* Enora Rosalyn Brown
Susan Domowitz
Jesse Gonzales
H* Sybil Ramona Griffin

* Kenneth Greene Roby
Stephanie See

H** Sheryl Christine Seymour
Patricia JoAnne Shurn
H** Carol Louise Taylor

Spanish

** Kathleen Ann Pratt
Polly Serbanos

Theatre

Susan Armstrong Zervos

DEGREE OF BACHELOR OF FINE ARTS

Art Practice

* Helen Lind Babcock
* Kathleen Marie Eudis
* Douglas (Turk) Huston
Douglas Russell Kisor

Leopold Narcyz Nessing

Susan Lois Phillips
** William Handy Roberts
** Douglas Lee Ruble
* Karen Ann Sternberg

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Art Practice

H** Linda Susan Farrell
* Diane Louise Kapla
* Patti L. Wigman

DEGREE OF BACHELOR OF MUSIC

Music Therapy

Marie-France Boudreault
Nancy Ellen Herr

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

School Music

H* Michael Ted Griffith

Karen Louise Vandecar

School Music and Music Therapy

H* Marsha Ann McNeil

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COLLEGE OF NATURAL SCIENCE

RICHARD U. BYERRUM, DEAN

GRADUATED SUMMER TERM, 1971

DEGREE OF
MASTER OF
ARTS FOR
TEACHERS

Biological Sciences

Virginia Ann Gaffrey
David Cornelius Hinson
Alfred Allan Lowetz
Charles Clifton Morgan
Frederick Daniel Wolfe

Chemistry

John H. Stitt

General Science

David C. Disbrow
Robert William Lubbers
Richard Edward Mullally
Carlton Porterfield
Robardey, Sr.

Mathematics

Ardis Dawn Anderson

Guy Albert DiFranco
Robert Carl Feague
Michael A. Frost
Carol Ann Wells
Paul Howard Wiegerink

Planetarium Education

Robert Thomas O'Dell

DEGREE OF
MASTER
OF SCIENCE

Biological Sciences

Michael Joseph Andrae
Sister Mary Joseph
Bircsak, O.P.
Marshall Jay Blaufarb
Louise Jean Brazee
Peter Louis Carparelli
Michael Paul Caruso
Donna Jean Cooper
Sister Margaret Raymond
Dewey
Jean S. Euker
Thomas Edgar Fridy
Mary Ann Harrington
Ishmael McKeever Holley, Jr.
William Arthur Jutras
Thomas John Kosiorek
Linda Dianne Lutes
Mary Anne McMurray
Donald Edward Oderkirk
Calvin Peter Reitsma
Karl John Sjolander
Gustav George Sloversky
Rodney Kent Steffey
Barbara Kent Sullivan
Jerome Andrew Warren
Eugene Clay Watkins

Biophysics

Thomas Charles Hamilton

Botany

Richard Anderson
Flanders, Jr.
Sally Wood Hennessy
Chung-Shiu Kuo
Gustavo Enrique Trujillo

Chemistry

Donnie Nelson Byers
Donald Clinton Jones
Matthew David Karash
Vernon Eugene Rife
Jeffrey Norman Smith
Jeanette Mary Stoffan
Lawrence G. Weathers

Entomology

Thomas Miller Brown
Bruce John Wildie

Geology

Douglas James Bacon
Ambika Prasad Verma
Jean Kay Younker

Mathematics

Donald Eugene Bridgewater
Clyde Benson Davis
Susan Mary Kamen

James Irvin McCullough
Victoria Ann Overton
Jan Karl Van Voorhis

Microbiology

James T. Gary, Jr.
Ronald Carey Gorewit
Mary T. Horan
Samuel Nathaniel Merritt, Jr.
Elaine Suzanne Tremblay

Physical Sciences

Jean Kay Younker

Physics

Yuth Akkaramus
Christina Irene Drzewiecki
Charles Thomas Kleman
Azam Niroomand-Rad

Physiology

Chih-Peng Hsieh

Statistics

Anjana Chinubhai Choksi

Zoology

Michael Anthony Abruzzo

CANDIDATES — FALL TERM, 1971

DEGREE OF
MASTER
OF ARTS

Mathematics

Artice Monroe Davis

Leon Brewster Hardy
Ellen Elizabeth Kirkman

COLLEGE OF NATURAL SCIENCE

DEGREE OF

MASTER

OF ARTS

FOR TEACHERS

Mathematics

James Myron Krosschell

Applied Mathematics

Ernest John Barczak

Biological Sciences

Bruce H. Secker

Francis Wallace Zak

Botany

Ronald Anton Heinrichs

Chemistry

Sandra Leonard Bacon

Hugh Franklin Hussey

Diana Mary Wied

Show-jen Grace Wu

Entomology

Richard Alfred Casagrande

Stuart Hargraft Gage

Marvin Lee Goad

Geology

Paul Leonard DeWaele, Jr.

Stuart Donald Hanson

Kenneth F. Johnson

Jerry Duane Lewis

Walter Ray Turpening

Bruce Michael Walker

Mathematics

Melvin Billik

Gregory Peter Campbell

Norman David Gaylord

SiPing Kung

Anne Larimer Ludington

Robert Norman McCullough

Gail Anita Sultan

Paul Norman Wallace

Richard Anthony Wisniewski

Microbiology

William Joseph Kokolus

Charles Woodrow Moore

Pornsawan Nimnoi

Jerold Stephen Shpargel

Santi Thoongsuwan

Brian Chih-Tzu Wu

Physics

William Alan Parmley

Physiology

Douglas Williamson Bierer

Marie Catherine Gelato

Dennis Allen Jewett

Richard Laurence Walker

Barry Ernest Watkins

Statistics

James Milford Boyett

Chan-Fu Chen

Rekha Upendralal Dahal

Zoology

Paul Bernard Hamel

DEGREE OF

MASTER

OF SCIENCE

DEGREE OF

BACHELOR

OF ARTS

Chemistry

*Dale Jager

David Merlin Cummings

DEGREE RECOMMENDED

JOINTLY WITH THE

COLLEGE OF EDUCATION

Mathematics

*Michael James Connelly

Barbara Kay Fiegel

Jesse Joseph Fuzi

Jean Ann Rodda

*Margaret Leigh Staley

Biochemistry

H**Howard Brody

H**Robert Crane Kline

**William Glenn McGregor

Paul Edward Mills

Biological Sciences

Dean Louis Fritz

Daniel William McClearn

Wayne Paul Morgan

Linda Louise Richter

James Roger Warner

Chemistry

**Kathryn Ann Godfrey

Entomology

David Michael Jackson

**James Stephen Swart

Geology

Marshall Douglas Autra

Mathematics

**Forrest Gardner Clark

**Gary Alan Clawson

Sherwood Kimball Haynes, II

*Janice Dale Heminger

H**Susan M. Hering

*William Charles Kowaleski

Michael Leo Manor

H**Regina M. Mueller

H**James Robert Nelson

H**Bruce Ivan Roth

*Carolyn Kay Tripp

Microbiology

Curtis Neal Rhodes, Jr.

Nursing

Patricia Margaret Ciambella

Janet Kay Herwaldt

Beth Marie Meyer

Jane M. Pleticha

*Gloria Joy Santo

Physical Sciences

Leon Harold Martin

Physics

H**John Douglas Carlson

H*Milton Charles Murray, Jr.

H Donald Kole Perovich

H**John Xavier Przybysz

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DEGREE OF BACHELOR OF SCIENCE

Zoology

Gregory Alan Brandt
Edgar LeRoy Carter
Robert Dale Churchill
Bruce Cheers Cozzens
Thomas Alan Dorsey
Bruce Wayne Gorsline
Robert Michael Hall
William Green McDonald
Mark Alan Smith
Daniel Matthew Stewart
Glen Alan Sussman
James Edward Szelc
Paul August Wennerberg

DEGREE RECOMMENDED
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COLLEGE OF EDUCATION

Biological Sciences

Opal Lee Davis
Janet Elaine Douglas
*Danny G. Herman
Lynn Barbara Maedel
Jeanette Elizabeth Metea
Linda Jane Rose
Sue Ann Shelburne
Bradley Eugene Soash

Chemistry

John Anton Dika
Paul Herron
Paul S. Herron

Earth Science

William Welch Porter, Jr.

General Science

Michael Clark Colby

Mathematics

Edward Earl Fisher
*Roger Floyd Gale
*Duane Howard Guenther
Steven Alan Hunt
Karen Kish
*Nicole Rappaport
Gerald James Schindler
*Linda Kay Schuls

Physics

Steven Paul Mazurek

Zoology

Timothy Frederick Michelson

COLLEGE OF SOCIAL SCIENCE

CLARENCE L. WINDER, DEAN

GRADUATED SUMMER TERM, 1971

DEGREE OF MASTER OF ARTS

Anthropology

Shubha Bhowmik
Fernand J. A. Girard
Barry Harwell Michie
Malcolm Dean Otis

Geography

P. Miguel Angel Barrena
Alice Hellyer Dally
Michael Arthur Graff
Lodewyk Pieter Zwarensteyn

Political Science

Thomas Paul Doorn

Ronald Vincent Galletta
John Robert Veenstra

Psychology

Ruth Esther Baham
Obdulia Caridad Becerril
Arthur Robb Bliss
Ruben Gur
Javon Albert Jackson
Linda Gilbert Kok
Bruce R. Marshall
Joseph Anthony Martella
Mary Lee Nitschke
Joseph John Schuller

Sandra Lee Stuart
Laurie Curtis Wilson

Social Science

Glenda Roberts Davis
Christine Marie Dunning
Adelbert Charles Jones
Roger Crawford Sitterly
William Donald Skinner

Sociology

Marcus W. Jarsulic
Jack Wilfred Sattel
Barbara Swirski
Paul Howard Tress

DEGREE OF MASTER OF LABOR AND INDUSTRIAL RELATIONS

Alan Thomas Ackerman
William Joseph Allen
Harry Thomas Angell
Zale Isaac Asbell
Orrin Ormsby Benn
Gilberto Cardenas

John Frederick Cooper
Joel Jerome Dant
Howard Alan Fishman
Allen Arthur Gagstetter
Thomas Gordon Hersem

Daniel Paul Kraus
Jeffrey Howard Lerer
Michael Joseph Lodato
Francis John Pelczarski
Jon Darwin Soder

DEGREE OF MASTER IN LANDSCAPE ARCHITECTURE

Gary Wayne Puryear

DEGREE OF MASTER OF SCIENCE

Criminal Justice

Bruce Brabrook Barker
Noel Carl Bufe
Donald Emil Dombrowski
Wayne Harrison Francisco
Keith Neal Haley
William G. Horn

Thomas Stanley Ireland
Piya Jiamchaisri
Artie Linda Kearney
Cary Ira Klafter
David Herbert Leflet
William Francis Linkul
John Kinney Longstreth

Suzanne Marie Miel
Nicholas E. Pishon
John Rybczyk
Roosevelt Eugene Shepherd
Eriks M. Svede
Christopher Lawton Vail

DEGREE OF MASTER IN URBAN PLANNING

Ronald F. Nino

COLLEGE OF SOCIAL SCIENCE

CANDIDATES — FALL TERM, 1971

DEGREE OF MASTER OF ARTS	<u>Anthropology</u> Wendy Hanford Arundale Russell Earl Lewis Steven Wayne Perrin	Pauline Clare Terrelonge	Shelley John Stokes Robin Richard Vallacher John Preston Wilson
	<u>Geography</u> Charles Alton Heatwole Gary Reed LeKander Lynn Carleton Schlueter Steven Abell Shedd George Alan Tillema	<u>Psychology</u> Harry Jay Caplan Jerry Carl Eyer George Robert Fleming, Jr. Dennis Roy Fox Robert Keith Goodman Spencer D. Jordan Marsha H. Katz H. Robert Laywell Douglas Marion Little Leila Meltzer Allen Louis Nagy Anthony B. Olejnik Alan Lawrence Siegel Jonathan Clyde Smith Diane Louise Smolen Linda Ann Stevenson	<u>Social Science</u> Andrew J. Homa Joseph Steven Miller Donna Sweeny Le Thi Xuan
	<u>Political Science</u> Eugene J. Alpert Nicholas Alan Bloom Richard E. Byrd Conlin Robert Anthony Delgrosso Gregory James Rathjen John George Schuiteman		<u>Sociology</u> Carol Willis Berry William Patrick Boss Marianne Alice Paget Geoffrey Donald Simmon Catherine Begnoche Smith Diane Elizabeth Szymkowski William Earl Vredevoogd
DEGREE OF MASTER OF LABOR AND INDUSTRIAL RELATIONS	Robert John Glee Joseph Rodger James Allen M. Ponak Donald F. Power	Joel David Reed Randall Steve Schuler Jack Lee Shook Daniel Duane Sveller	David Lund Troutman Willard King Walker Kenneth Augustine Williams
DEGREE OF MASTER OF SCIENCE	<u>Criminal Justice</u> Thomas Frank Christian Annop Choobamroong	Maynard D. Eaves Jeffrey L. Eubank Michael Ewens Gersten	Frank S. Horvath John Popescu J. Barry Schiftic
DEGREE OF MASTER OF SOCIAL WORK	Felix Joseph Subervi, III		
DEGREE OF BACHELOR OF ARTS	<u>Anthropology</u> *Janet Marie Monge H**Barbara E. Olson	Paul S. Ewing, II Susanna G. Fekete *Daniel Scott Gahagan Michael Edward Gerwatowski **Steven Leslie Husted H**John Henry Lloyd *Thomas Eugene McClear Dean Bruce McCormick *Elisabeth Ruth Meyers **Ray Edward Quada Barry Lynn Rardeen Douglas Michael Sieb *Edward Andrew Stankus	<u>Psychology</u> Bradley Alan Bohner Loretta May Bustos *Patrick J. Cosgrove Timothy David Knight Donald Lauren Mertz Gloria D. Mosley Michael Jon Panetta **Stanley George Popowich Herschel James Roper Alice Joan Slough H**Heidi Schwartz *Maureen Theresa Sheehan *Robert Michael Stanley H**David Dickson Stewart
	<u>Geography</u> Daniel Raymond Kramer		
	<u>Political Science</u> H*Barbara Burton Armstrong Robert A. Breard Arthur Brown H*Paul Robert Crawford Gregory Paul Derderian *Glenn Alan Diegel Douglas Richard Edwards		

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COLLEGE OF SOCIAL SCIENCE

DEGREE OF BACHELOR OF ARTS

Psychology (Continued)

David Earl Swain
*Jacqueline Jane Ur
Richard Alan Wenner

Social Science

Michael Jon Abbey
Robert William Archer
Joan Marie Baldwin
Lois Nelson Bomaster
Mary Jean Boone
Gary Robert Clark
David Franklin Colman
Daniel Leo Crimin
Dennis Bernard Deutsch
Don David Dudley
*Phyllis Winnard Farr
Terry Lee Fuller
William Charles Grant
David L. Hack
Gregory Edward Jarmolowicz
Betty Lynn Johnson
*John Michael Kelley
Fred David Koester
Jeremy Woodley LeAnderson
John Frederick Mertz
Michaeline Suzanne Moon
*Claudette Grace Muller
*Joan M. Nelson
*Pamela Ann Newhaller
Gregory Novak
Richard Thomas O'Neill
Stanley Steven Pastuszka

Anthropology

Ronald Alvin Hartman

Criminal Justice

Robert Lee Bakker
*Andrew Michael Bates
Danny Ray Blackburn
*Charles Edwin Cribley
*David Allen Cupello
Gary Lynn Dachtler
*Peter Collins Deshler
Dennis Michael Drake
Gregory Alan Fierstine
H* Vikki E. Gilbert
Cheryl Rae Hughes
James Alan Keyes
Daniel John Krajewski
Ronald Michael Krenz
JoAnn Joy Kresky
Maureen Margaret McGraw
Kenneth W. Muntz
Elmer Lyle Ogg
Robert Eugene Pavlinski
Thomas Edward Peterson
Calvin Stanley Poissot
Benny Oliver Raasakka
*Francis William Shipp
*Christine Janowski Siewertsen

James E. Philbrick
Patricia Kay Price
Alex Stephen Rachunok
Anne Elizabeth Ramsay
H**Wendy Alice Robins
Donald Francis Savolainen
Gary Gordon Sawyer
Carol Ann Snider
Thomas L. Spaniolo
Charles Thomas Stabnau
H**Stephen Chauncey
Waterbury
*Beverly Ann Werlinich
Steven L. Wettle
Sarah Hilton Williams
Charles Lewis Wilson
*Christine Julie Zeeb

Social Work

*Barbara Ann Bambach
William Alan Beiswenger
Linda Annette Causey
Janet Mary Corcoran
Margaret Annabel Cosner
Jean Marie Felsing
Marilyn Beth Frankel
Judy Margaret Hall
*Carol Lathrop Ingall
Benieve Lois Lago
Douglas E. Maddex
*Carol Ann Murray
Deborah Lynn Nelson
Sandy Marie Nelson
Merry Ellen Palmer

*Marjorie Susan Silver
Susanne Marie Smokoska
Gayle Diane Somers
*Stephen William St. Pierre
Robert Clair Tarrant, Jr.
Leland Ward Teschendorf
Javene McGinn Trafelet
*Bryan Turnbull
Philip John Van Houten
Terry Lee Warfield
Sandra Eileen Weinberg
Robert Carl Windish
Zirl E. Yek
H* Charles A. Yonkman
*Mark James Zaleski

Geography

*Ann Elizabeth Rhian

Landscape Architecture

Jeffrey J. Longanecker

Psychology

Alvin Edison Bessent
*James Arthur Blackburn
Diane Lee Caldwell
*Linda Carol Crane
Herman Kelton Crump

Nina Victoria Pniewski
Howard O. Robinson
*Susan Carol Root
*Gary William Schulwitz
Marsha Loraine Small
Jennifer Woods

Sociology

*Steven Alan Bright
*Dale Jager
Patricia Agnes Murphy
*David Henry Rydzewski

DEGREE RECOMMENDED
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Social Science

Brenda Gail Brown
Larry Connaghan
Jerre Lynn Crawford
Mary Christine Demmer
M. Thomas Dietzel
*Konnie Kay Fox
Rodney Cameron Scott Frye
Timothy Paul Keefe
Frank Edward Kelley
Robert Lyle Loerke
Kathi Sue Muellerweiss
Randy Rousse
Barbara Michael Sawyer
Karen Louise Schuman
Stephen John Tresidder
Frederick Alan Utting

Maudalea Jane Darany
Deborah Lynn Dodge
L. Susan Draftz
H* David Bruce Earl
H* Martin Ellis Goldstein
Harold Lane Hall
Ronald Glenn Hecksel
*Carol Marguerite Kerrinckx
*Philip Howard Knight
Glen Eugene Linderman
Francis Joseph Longuski
H* Robert Joseph Luebke
*Myrna Rochelle Lueck
Walter James
Middlebrooks, Jr.
H* Laura Mae Myers
James Lee Nofs
Bennett Copley Nott
*William Michael Patterson
Stanley Ernst Richards
Elliot Sanford Rosen
Dennis Irvin Serig
Andrew Edward Silver

Social Science

Jeffrey George Barstow
Lester Joseph Bendert
Gregory John Bogucki

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COLLEGE OF SOCIAL SCIENCE

DEGREE OF BACHELOR OF SCIENCE

Social Science (Continued)

*Gary C. Brackelman
 *Howard Richard Broadman
 Richard Allen Budd
 Arnold Craig Burandt
 *Linda Ann Charles
 **John Willits Derbyshire, Jr.
 James Edward Dolega
 James Simmons Farr
 *Michael James Ford
 Gary Warren Freestone
 John Gregory Garland
 H**Sago Rochelle Garrett
 James Curtis Gettel
 Adrian Gerald Gillissen
 Jo Anne Gilpin
 Phillip John Hamilton
 James Leon Harvin, III
 Harry LeRoy Hicks
 David Franklin Hoyt
 James H. Hughesian
 Charles Lloyd Jones
 Ann Gray Keasling

Hugh Hilary Keasling, III
 Michael K. Kilpatrick
 H**Gerald Hale Ladue
 Steven Scott McCord
 James Alvin Melin
 Michael E. T. Miller
 Edward O'Dell Penney, III
 *Andrew Bisbee Peppard
 Michael Lewis Popov
 Ronald John Potterpin
 Janice E. Ramsay
 Richard Christopher Reader
 Robert Rouks Sfere
 Joseph Walter Steffey
 David H. Thompson
 Patrick Arthur Tinetti
 David Marshal Townsend
 David Carl Wallgren
 Ralph Charles Wieleba
 Robert John Wilkis

Sociology

Robert Charles Bell
 Patricia S. Benedick

Gary Edwin DeCocker
 James Byron Ellis
 *Cheryl Lynn LaPointe
 Daniel E. Roberts

Urban Planning

*Rodney Lee Cobb
 Dean James Holub
 Emil Joseph Winnicker

DEGREE RECOMMENDED
 JOINTLY WITH THE
 COLLEGE OF EDUCATION

Geography

*Carol Lee Zwick

Social Science

Barbara Ann Ellsworth
 Douglas Stephen Miller
 *Linda Sue Ortman
 **Brenda Joyce Travis Ramsby
 Randall F. Vorhees

JUSTIN MORRILL COLLEGE

D. GORDON ROHMAN, DEAN

CANDIDATES — FALL TERM, 1971

DEGREE OF
BACHELOR
OF ARTS

Rebecca Ann Blazo
David Michael Brantley
H**Michael James Carson
H**Sharon Ann Claytor
H**Susan Elisabeth Cozzens
Angela Beth Croel
*Paula Elaine Doody
Beverly Sue Farrand

Deanna Marie Fleming
H**Esther Laeh Hiney
*Heather Ann Hogue
H**Martin Lee Lowy
*Gregory A. Turner
*Judith Gray Van Auken
H**Gerald Richard Wager
Michael H. Zimmerman

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Linda Jean Botimer
Jody A. Gubry

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COLLEGE OF HUMAN MEDICINE

ANDREW D. HUNT, JR., DEAN

GRADUATED SUMMER TERM, 1971

DEGREE OF

MASTER OF

SCIENCE

Clinical Laboratory Science

Fusako Maehira

Pharmacology

Ronald Stephen Davis

CANDIDATES — FALL TERM, 1971

DEGREE OF

MASTER

OF SCIENCE

Clinical Laboratory Science

Vivian Diane Geisland

William Lee Madden

Anna Mae Spencer

Martha Talbott Thomas

Physiology

James L. Clark

Rodger Dale Loutzenhiser

DEGREE OF

BACHELOR

OF SCIENCE

Medical Technology

William Hugo Carlson

Roger Charles Myers

Dennis Alfred Perry

5

JAMES MADISON COLLEGE

ROBERT F. BANKS, ACTING DEAN

CANDIDATES — FALL TERM, 1971

DEGREE OF
BACHELOR
OF ARTS

*James Dale Brittain
H**John Leger Clifford
*Diane H. DePuydt
Anne Mitchell Porter
Robert Lee Vance

Mary Judith Walters
Virginia Ellen Wellwood
H**Denise Ann White

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Kathy Elizabeth Moore
Richard Lee Wagner, Jr.

H Honors College
* With Honor
** With High Honors

LYMAN BRIGGS COLLEGE

FREDERICK B. DUTTON, DEAN

CANDIDATES — FALL TERM, 1971

DEGREE OF
BACHELOR
OF SCIENCE

Duane Arnold LaPar
John Joseph McGuirk
Brian Lee Tabor
Ronald Storm Tucker
Gordon Michael Whitney

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Joseph Emerson Lech
David J. Young

RESERVE OFFICERS TRAINING CORPS

CANDIDATES — FALL TERM, 1971

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

Dean B. McCormick
Michael J. Vincent

MILITARY SCIENCE

Armor
Bruce Robert Metzdorf

Infantry
Charles Edward Mellentine