



COMMENCEMENT 1973
MICHIGAN STATE UNIVERSITY

MICHIGAN STATE UNIVERSITY
RECEIVED

NOV 29 1973

UNIVERSITY ARCHIVES
HISTORICAL COLLECTIONS

THE COMMENCEMENT COMMITTEE

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DIPLOMAS WILL BE AVAILABLE FOR PICKUP AS FOLLOWS:

Advanced Graduate degreesbeginning Dec. 17—Room 150 Hannah Administration Building
Master degreesbeginning Dec. 26—Room 150 Hannah Administration Building
Bachelor degreesbeginning Jan. 2—Room 50 Hannah Administration Building

Diplomas will be released only to the degree recipients upon presentation of identification.
Diplomas not picked up by Jan. 21 will be mailed.



COMMENCEMENT 1973

Saturday, December 1

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 FRANK MERRIMAN, <i>Chairman</i>		Deckerville
THE HONORABLE PATRICIA CARRIGAN		Ann Arbor
THE HONORABLE WARREN M. HUFF		Plymouth
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THE HONORABLE JACK STACK		Alma
THE HONORABLE DON STEVENS		Bloomfield Hills
THE HONORABLE KENNETH W. THOMPSON		East Lansing

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

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 so that the audience may 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>	COLLEGE OF HUMAN MEDICINE <i>Green</i>
Forest Products, Forestry, Packaging <i>Russet</i>	JAMES MADISON COLLEGE <i>Citron</i>
COLLEGE OF ARTS AND LETTERS <i>White</i>	JUSTIN MORRILL COLLEGE <i>White</i>
Music <i>Pink</i>	LYMAN BRIGGS COLLEGE <i>Golden Yellow</i>
Philosophy <i>Navy Blue</i>	COLLEGE OF NATURAL SCIENCE <i>Golden Yellow</i>
COLLEGE OF BUSINESS <i>Drab</i>	Nursing <i>Apricot</i>
Economics <i>Copper</i>	COLLEGE OF OSTEOPATHIC MEDICINE <i>Green</i>
COLLEGE OF COMMUNICATION ARTS .. <i>Royal Blue</i>	COLLEGE OF SOCIAL SCIENCE <i>Citron</i>
Journalism <i>Crimson</i>	COLLEGE OF URBAN DEVELOPMENT <i>Citron</i>
Speech <i>Silver Gray</i>	COLLEGE OF VETERINARY MEDICINE <i>Dark Gray</i>
COLLEGE OF EDUCATION.. <i>Light Blue</i>	
COLLEGE OF ENGINEERING <i>Orange</i>	
COLLEGE OF HUMAN ECOLOGY <i>Maroon</i>	

ORDER OF CEREMONIES

Graduate Degrees

PROCESSIONAL

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

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

PRAYER

THE REVEREND WILLIAM A. EDDY, JR.
Rector, All Saints Episcopal Church, East Lansing

COMMENTS

DR. ANDREW D. HUNT
Dean, College of Human Medicine

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

REVEREND EDDY

RECESSIONAL

The MSU Symphonic Band

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

THE REVEREND WILLIAM A. EDDY, JR.
Rector, All Saints Episcopal Church, East Lansing

ADDRESS

MRS. BARBARA WARD
International Economist

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
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(The Band and Audience)

PRAYER

REVEREND EDDY

RECESSIONAL

The MSU Symphonic Band

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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 endeavor.

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

Now in its 119th year, Michigan State University 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, 431 buildings, and more than 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. The University now has the School for Advanced Graduate Studies and 17 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, University College, Urban Development, and Veterinary Medicine. Some 165 programs of instruction are available to undergraduates; 76 departments offer graduate studies.

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 a stimulating academic environment. Each of these nine 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, almost 42,000 students attend the University at East Lansing. About 85 percent are from Michigan; students also come from every state in the nation and 81 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 cyclotron of the sector-focused type capable of accelerating protons to 50 MeV (60,000 miles per second), and the MSU Observatory which houses a 24-inch reflecting telescope, a computer and related equipment. 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

GWEN FROSTIC

As an artist and publisher you have made a unique and enduring contribution to the nation, and especially to the people of Michigan. Despite obstacles which would have thwarted a less courageous spirit, you have applied your unusual talents and energy to develop a widely known and successful arts enterprise. Your meticulously created prints express your own love of nature as well as the tranquil beauty of the Michigan landscape. In their beauty and originality they encourage the enjoyment of nature and speak persuasively for the preservation of our natural resources. In addition, you have given your time and talent unselfishly to civic and cultural projects, especially to the advancement of the arts. Because of your distinctive artistic ability and the dedication with which you have brought beauty and joy into the lives of so many people, Michigan State University is pleased to grant you the degree of Doctor of Fine Arts.

GLENN LAKE

Since your student days at this institution several decades ago, you have attained widespread recognition for your distinguished accomplishments in the dairy industry. Your analytical mind and effective articulation of marketing problems and their solution have given you a unique ability to propose and support progressive programs among dairy cooperatives throughout the nation. Because of your successful leadership, you have been elected to important offices in many national organizations, and you have received appointments from Presidents Kennedy and Nixon to federal agricultural committees. In all of these activities, and during your participation in international dairy conferences in Europe and elsewhere, you have concerned yourself with both the economic problems of the dairy farmer and the nutrition and health interests of the public. Because of the notable part which you have played in the advancement of American agriculture and the welfare of your fellow citizens, Michigan State University is pleased to grant you the degree of Doctor of Agriculture.

HONORARY DEGREES

CHARLES H. MALIK

In the progress of your outstanding career as a diplomat, educator and author, you have made many contributions to the political and cultural well-being of your fellow men. Your many years of diplomatic service, culminating in your presidency of the General Assembly of the United Nations in 1958-1959, were marked by a deep loyalty to the principles of liberty and human dignity. You have eloquently defended those principles, not only in the deliberations of the United Nations, but in international conferences throughout the world. Your dedication to spiritual values and to the place of theology in human endeavors are expressed in such important roles as President of the World Council of Christian Education and as delegate of the Eastern Orthodox Church to the World Council of Churches General Assembly at Uppsala, Sweden. As a teacher of philosophy at the American University in your native Lebanon, you have demonstrated the enthusiasm, integrity and meaningful interaction with people that identify all your endeavors. Through your writings on the social and religious problems of modern times, you have encouraged men to acquire a new vision and faith in their human destiny. In recognition of your enlightened leadership and your dedication to the enduring values of brotherhood among men, Michigan State University is pleased to grant you the degree of Doctor of Laws.

BARBARA WARD

Your exceptional career as an author, educator and international economist has given you a worldwide reputation. Your clear, incisive style of speaking and writing combines with your extensive knowledge of history and economics to make you a penetrating interpreter of public affairs. Your meticulous scholarship and original insight have illuminated many difficult international problems, especially those which require mutual understanding in the eastern and western worlds. During your years at Cambridge in your native England, at Harvard, and later as Schweitzer Professor of International Economic Development at Columbia University, you acquired an enviable reputation as a provocative teacher with profound learning and much wisdom. In addition to these activities, you have made valuable contributions to civic affairs and to the development of the arts, especially the theater, both in England and America. Because of your remarkable achievements, all of which bear the mark of a humane and compassionate woman dedicated to the highest values of our religious and ethical tradition, Michigan State University is pleased to grant you the degree of Doctor of Laws.

THE CANDIDATES FOR DEGREES

1973 CLASS ROSTER

This includes the names of candidates for degrees as of the close of the 1973 Fall term, as well as the names of the recipients of the Doctoral and Master degrees at the close of the 1973 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

C. W. MINKEL, ACTING DEAN

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973

LUCILLE GERTRUDE ADAIR, Ph.D.

B.A., Mary Hardin-Baylor College; M.S., Southern Methodist University.
Zoology. Major Professor: Charles S. Thornton, Professor.
Thesis: Studies on Induced Regression in Larval *Ambystoma* Limbs.

RALPH H. ALDERMAN, Ph.D.

B.S., M.S., Illinois State University.
Geography. Major Professor: Clarence Minkel, Professor.
Thesis: A Geographic Analysis of the Beef Cattle Industry of Honduras.

ABDULJALIL ALI AL-SAIF, Ph.D.

B.S., M.S., Michigan State University.
Education. Major Professor: Robert O. Nolan, Professor.
Thesis: An Examination of the Knowledge of Traffic Regulations and Defensive Driving Among a Selected Sample of Saudi Arabian Private Car Owners.

ARTHUR W. ANDERSON, Ph.D.

B.S., M.S., Wayne State University.
Education. Major Professor: Paul L. Dressel, Professor.
Thesis: Educational Programs in Business and Industry and Implications for Receiving Credit Toward the External Degree.

L. B. WADE ANDERSON, JR., Ph.D.

B.Se., M.A., Kansas State Teachers College.
Mathematics. Major Professor: T. Yen, Professor.
Thesis: Fitting Sets in Finite Solvable Groups.

ROY MELVIN ANKER, Ph.D.

B.A., Hope College; M.A., University of Illinois.
English. Major Professor: Russel B. Nye, Professor.
Thesis: Doubt and Faith in Late Nineteenth Century American Fiction.

MUSTAFA AYDIN, Ph.D.

B.A., M.S., State University of New York.
Education. Major Professor: Frederick R. Ignatovich, Associate Professor.
Thesis: Role Expectations and Performance of Turkish Teacher Training School Principals.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- BRUCE SCOTT BABCOCK, Ph.D. B.A., M.S., California State College.
Mathematics. Major Professor: Clifford E. Weil, Associate Professor.
Thesis: On Properties of the Approximate Peano Derivative.
- WILLIAM JAMES BAGARIA, Ph.D. B.A., M.S., University of Detroit.
Mechanics. Major Professor: William N. Sharpe, Jr., Associate Professor.
Thesis: Temperature and Rise Time Effects on Dynamic Strain Measurement with Resistance Strain Gages.
- FREDERICK JOHN BAKER, Ph.D. B.A., Central Michigan University; M.A.T., Antioch-Putney Graduate School.
Education. Major Professor: Clyde M. Claycomb, Assistant Professor.
Thesis: Community Development in Northeast Thailand: A Descriptive Study of Radio Station 909, Sakon Nakorn, as an Educational Vehicle for Change.
- MIDORI YAMANOUCHI BANKS, Ph.D. B.S., Tokyo Women's College; B.A., Sophia University; M.A.L.S., University of Michigan; M.A., Michigan State University.
Social Science. Major Professor: Donald W. Olmsted, Professor.
Thesis: A Study of the Expression of Traditional Japanese Culture Through Selected Social Rituals as Revealed in Popular Novels.
- CHAIN SINGH BARLA, Ph.D. B.Com., M.A., University of Rajasthan.
Agricultural Economics. Major Professor: Lester V. Manderscheid, Professor.
Thesis: An Analysis of Cooperative Agricultural Credit Institutions in India: A Case Study of the Primary Credit Societies in Rajasthan.
- EMANUEL BERMAN, Ph.D. B.A., M.A., Tel-Aviv University.
Psychology. Major Professor: Robert A. Zucker, Associate Professor.
Thesis: The Development and Dynamics of Multiple Personality.
- GERALD EDWARD BERNIER, Ph.D. B.E.E., General Motors Institute; M.S.E., University of Michigan.
Electrical Engineering. Major Professor: Robert Barr, Associate Professor.
Thesis: Noniterative Solution of the Minimum Regulator and Minimum Time Problems.
- GEORGE FRANKLIN BISHOP, Ph.D. B.S., M.A., Michigan State University.
Psychology. Major Professor: Eugene Jacobson, Professor.
Thesis: Socioeconomic Status Consistency and Political Behavior-Attitude Consistency.
- YVAH DANIEL BRETON, Ph.D. B.A., M.A., Laval University.
Anthropology. Major Professor: H. Scott Cook, Associate Professor.
Thesis: A Comparative Study of Rural Fishing Communities in Eastern Venezuela: An Anthropological Explanation of Economic Specialization.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

HELENE B. BREWER, Ph.D.

B.S., College of St. Teresa; M.Ed., Marquette University.
Education. Major Professor: Judith E. Henderson, Associate Professor.
Thesis: An Investigation of the Effects of Science Teaching Methods on the Attitudes of Elementary Education Majors.

ELIZABETH ANN BRIDGE, Ph.D.

B.A., M.A., Michigan State University.
Education. Major Professor: Norman R. Stewart, Professor.
Thesis: The Effect of Behavioral Techniques Within an Intensive Design Upon Elementary School Children's Attending Behavior.

ROGER ALAN BROOKS, Ph.D.

B.A., University of Michigan; M.A., Michigan State University.
Political Science. Major Professor: Joseph A. Schlesinger, Professor.
Thesis: Scottish Nationalism: Relative Deprivation and Social Mobility.

THOMAS MILLER BROWN, Ph.D.

B.S., Adrian College; M.S., Michigan State University.
Entomology. Major Professor: Ronald E. Monroe, Professor.
Thesis: Studies of Prevention of Metamorphosis by Juvenile Hormone in *Oncopeltus fasciatus* (Dallas).

GERALD CLAYTON BURKE, Ph.D.

B.A., Florida A & M University; M.Ed., Florida Atlantic University.
Education. Major Professor: William Fitzgerald, Professor.
Thesis: Case Studies of High School Students Using Physical Models to Study Mathematical Systems.

DONALD ARTHUR BUSAROW, Ph.D.

B.S., Concordia Teachers College; M.M., Cleveland Institute of Music.
Music. Major Professor: Corliss Arnold, Associate Professor.
Thesis: Melodies Associated with Chorale Texts by Martin Luther as Found in Das Babst Gesangbuch (1545): A Study of Representative Musical Settings for Congregation, Choir, and Organ 1523-1969.

DONALD CARROLL BUTLER, Ph.D.

B.A., M.A., Morehead State College.
Education. Major Professor: Stanley E. Hecker, Professor.
Thesis: An Analysis of the Values and Value Systems Reported by Students, the General Public and Educators in a Selected Appalachian Public School District.

JOHN PAUL BUTT, Ph.D.

B.S., M.S., New York State College.
Forestry. Major Professor: Robert J. Marty, Professor.
Thesis: The Roadless Area Review and Evaluation — An Application of Program Analysis in the U.S. Forest Service.

THOMAS RANDLE BUTTS, Ph.D.

B.A., Knox College; M.S., Michigan State University.
Mathematics. Major Professor: Charles R. MacCluer, Associate Professor.
Thesis: On the Genus Field and its Applications to Four Problems in Algebraic Number Theory.

DARIO CABIB, Ph.D.

Laurea, University of Pisa.
Physics. Major Professor: Thomas A. Kaplan, Professor.
Thesis: I. Statistical Mechanics of the Half-Filled Band Hubbard Model. II. Random Exchange Ising Chains.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- EDWARD PHILIP CAFFARELLA, JR., Ph.D. B.S., Springfield College; M.Ed., University of Massachusetts. Education. Major Professor: Paul W. F. Witt, Professor.
Thesis: The Cost-Effectiveness of Instructional Technology: A Propositional Inventory of the Literature.
- JOY B. CARTER, Ph.D. B.A., M.A., University of Michigan. Education. Major Professor: Donald H. Nickerson, Associate Professor.
Thesis: A Study of the Effects of Multi-Grade Grouping on the Attitudes Toward Self, Peers, and School of Selected Third and Fifth Grade Students.
- STEPHEN I. CHAZEN, Ph.D. A.B., Rutgers College; M.S., Michigan State University. Geology. Major Professor: Thomas A. Vogel, Associate Professor.
Thesis: Distribution of Titanium and Phosphorus in Oceanic Basalts as a Test of Origin.
- NELSON THEODORE CLEARY, Ph.D. B.M., Oberlin College; M.M., Michigan State University. Music. Major Professor: Robert Sidnell, Professor.
Thesis: The D-Major String Quintet (K. 593) of Wolfgang Amadeus Mozart: A Critical Study of Sources and Editions.
- DAVID MICHAEL CLEMENTZ, Ph.D. B.S., University of Arizona; M.S., Purdue University. Soil Science. Major Professor: Max M. Mortland, Professor.
Thesis: The Nature of Hydrated Copper (II) Ions in Layer Silicates.
- WILLIAM RICHARD CONNOLLY, Ph.D. B.S., Trinity College; M.A., Michigan State University. Philosophy. Major Professor: Rhoda H. Kotzin, Professor.
Thesis: The Given and the A Priori: Some Issues in the Epistemology of C. I. Lewis.
- PHILIP B. CONRAN, Ph.D. B.S., D.V.M., University of California. Pathology. Major Professor: Glenn L. Waxler, Professor.
Thesis: The Role of Host Defenses in *Cis*-Dichlorodiammineplatinum (II) Mediated Regressions of Sarcoma 180 in Mice.
- LYLE REID CRUICKSHANK, Ph.D. B.A., Bishop's University. Education. Major Professor: James L. Page, Professor.
Thesis: An Exploratory Study of the Effects of Television Image Definition on Affective and Cognitive Learning.
- DANIEL EDWARD DELLA-GIUSTINA, Ph.D. B.A., M.A., American International College; Ed.S., Michigan State University. Education. Major Professor: Robert O. Nolan, Professor.
Thesis: A National Survey to Identify Current and Recommended Practices in the Transportation of Handicapped Students.
- RUTH EVELYN DENNIS, Ph.D. B.S., Lane College; M.A., Michigan State University. Social Science. Major Professor: Robert F. Lewis, Professor.
Thesis: Body Weight Extremes in Adult Females: An Analysis of Research Procedures to Study Health Related Correlates and Precursors.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- ROGER HOWARD DILLON, Ph.D. B.S., M.S., Purdue University.
Education. Major Professor: Floyd G. Parker, Professor.
Thesis: The Effects of Student Enrollment Size and Sources of Finance on the Position of Assistant to the President in Selected Colleges and Universities in the United States as Perceived by the Incumbents.
- ALBERTA MARY DOBRY, Ph.D. B.S., University of Nebraska; M.Ed., University of Missouri.
Home Economics Education. Major Professor: Norma S. Bobbitt, Associate Professor.
Thesis: Selected Characteristics of Michigan Home Economics Teachers in Relation to the School Situations of Their Employment.
- PETER ALFRED DUAL, Ph.D. B.S., M.A., Western Michigan University.
Education. Major Professor: Charles A. Blackman, Professor.
Thesis: The Black Educators in Michigan Public Schools: Analysis of Selected Demographic Characteristics.
- KAREN GROVER DUFFY, Ph.D. B.S., St. Lawrence University; M.A., Michigan State University.
Psychology. Major Professor: Andrew M. Barclay, Associate Professor.
Thesis: Overt and Covert Masculinity and Femininity and Trait Anxiety.
- DONALD ARTHUR DUNBAR, Ph.D. B.S., M.S., Michigan State University.
Fisheries and Wildlife. Major Professor: Gilbert W. Mouser, Associate Professor.
Thesis: An Evaluation of the Retail Segment of the Commercial Floriculture Technician Program at Michigan State University.
- ROBERT JOHN DUNN, Ph.D. B.S., M.A., Michigan State University.
Education. Major Professor: Dale V. Alam, Associate Professor.
Thesis: The Supporting Role of an Outside Person Within An Urban Junior High School.
- DAVID JAMES DWYER, Ph.D. B.A., University of Michigan; M.A., Michigan State University.
Linguistics. Major Professor: Julia S. Falk, Associate Professor.
Thesis: The Comparative Tonology of Southwestern Mande Nominals.
- AXEL EHMANN, Ph.D. B.S., M.S., University of Toledo.
Botany and Plant Pathology. Major Professor: Robert S. Bandurski, Professor.
Thesis: Indole Compounds in Seeds of Zea Mays.
- JOHN AMBROSE FALLON III, Ph.D. B.S., Western Michigan University; M.A., Northern Michigan University.
Education. Major Professor: Howard W. Hickey, Associate Professor.
Thesis: A Study of the Relationship Between Selected Demographic Variables and the Congruence of Community School Directors' Perceptions of Black Parent Attitudes Toward Community Education.
- ANDREA FARKAS, Ph.D. B.A., University of Chicago; M.A., Michigan State University.
Psychology. Major Professor: Donald Grummon, Professor.
Thesis: Adaptation of Patients, Siblings, and Mothers to Cystic Fibrosis.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- CAROLYN LEWELLEN FARQUHAR, Ph.D. B.S., University of Omaha; M.A., Michigan State University.
Education. Major Professor: George R. Myers, Professor.
Thesis: A Study to Determine the Needs of East Lansing, Michigan Middle School Youngsters from Single-Parent Families in Relation to Their Adjustment in Assuming Their New Roles.
- NORBERT ANTHONY FELISS, Ph.D. B.S., University of Notre Dame; M.S., Michigan State University.
Mechanical Engineering. Major Professors: Mahlon C. Smith, Merle C. Potter, Associate Professors.
Thesis: An Investigation of the Incompressible Channel Flow.
- EDWARD L. FRICKEY, Ph.D. A.B., Washburn University; M.S., Kansas State Teachers College.
Education. Major Professor: George R. Myers, Professor.
Thesis: A Study of the Relationships Between the Critical Behavior of Teachers, Results of the National Teachers Examination and Selected Socio-Economic Data.
- NICHOLAS BERNARD FRIDSMA, Ph.D. B.A., Calvin College; M.A., Michigan State University.
Education. Major Professor: Charles E. Henley, Professor.
Thesis: The Role of the School Psychologist in Michigan as Perceived by School Psychologists and Directors of Special Education.
- KENNETH MICHAEL FRIEDMAN, Ph.D. B.A., Queens College; M.A., Michigan State University.
Political Science. Major Professor: Rufus P. Browning, Associate Professor.
Thesis: Cigarette Smoking and Public Policy: A Comparative Study of Government and Interest Group Response.
- JEROME JAY GALLAGHER, Ph.D. B.S., Michigan State University.
Education. Major Professor: John J. Jordan, Professor.
Thesis: An Investigation of Selected Non-Intellectual and Certain Personality Variables and Their Relationships to Heroin Addiction.
- GEOFFREY WILLIAM GATES, Ph.D. B.S., M.S., Michigan State University.
Computer Science. Major Professor: Lewis H. Greenberg, Assistant Professor.
Thesis: A Computer System Load Model Based on Cluster Analysis.
- THOMAS BERT GILLIAM, Ph.D. B.S., Ithaca College; M.A., East Carolina University.
Education. Major Professor: William W. Heusner, Professor.
Thesis: Specific Alterations in Motor Neuron Morphology and Nissl Substance Concentration in the Lower Lumbar Spinal Segments of the Albino Rat Following Selected Chronic Physical Activity.
- DAVID P. GOFF, Ph.D. B.S., Pennsylvania State University; M.A., Michigan State University.
Psychology. Major Professor: Charley Hanley, Professor.
Thesis: "Cross-Field" Visual Masking by Tachistoscopic Presentation of Target and Noise Patterns to Opposite Cerebral Hemispheres.
- KENNETH PHILIP GOLDBERG, Ph.D. B.A., M.S., New York University.
Mathematics. Major Professor: Glen D. Anderson, Associate Professor.
Thesis: Quasisymmetric Functions and Plane Quasiconformal Mappings.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- JORGE F. GONZALEZ-ARCE, Ph.D. B.B.A., Institute of Technology; M.B.A., Tulane University.
Business Administration (Marketing).
Major Professor: Leo G. Erickson, Professor.
Thesis: Market Segmentation by Consumer Perception: A Case Study.
- MICHAEL JOSEPH GORDON, Ph.D. B.A., University of Wisconsin; M.A., Michigan State University.
Education. Major Professor: Lee Shulman, Professor.
Thesis: Heuristic Training for Diagnostic Problem Solving Among Advanced Medical Students.
- DONALD MASON GRAHAM, Ph.D. B.S., Towson State College; M.Ed., University of Maryland.
Education. Major Professor: Richard L. Featherstone, Professor.
Thesis: A Case Study of the Development and Implementation of a Preschool Program in an Urban Setting.
- RICHARD JOHN HALIK, Ph.D. B.S., Western Michigan University; M.A., Michigan State University.
Education. Major Professor: George R. Myers, Professor.
Thesis: Teacher In-Service Education in the Affective Domain: Outcome for Teachers and Students.
- FRED HELSABECK, JR., Ph.D. B.S., Lynchburg College; M.A., University of Missouri.
Psychology. Major Professor: Donald M. Johnson, Professor.
Thesis: An Analysis of Difficulties in Abstract Syllogistic Reasoning.
- RONALD LEE HENINGER, Ph.D. B.S., M.S., Michigan Technological University.
Forestry. Major Professor: Donald P. White, Professor.
Thesis: Effects of Soil Temperature on Tree Seedling Growth in Controlled Environments.
- ANIL KRISHNAJI HINGWE, Ph.D. B.E., M.E., University of Poona.
Metallurgy. Major Professor: K. N. Subramanian, Assistant Professor.
Thesis: Duplex Crystals and Two-Phase Bicrystals of Alpha-Beta Brass-Growth and Mechanical Properties.
- HAROLD RICK HITE, Ph.D. A.B., Dartmouth College; M.A., John Hopkins University.
Theatre. Major Professor: Frank C. Rutledge, Professor.
Thesis: The Tragic Theatre of Alphonse Sastre.
- CARLETON WILLIAM HOFFMAN, Ph.D. B.S., Indiana State College; M.A., Ball State Teachers College.
Education. Major Professor: Louis G. Romano, Professor.
Thesis: A Theoretical Model for Planning and Implementation of Differentiated Staffing.
- JOHN A. HOOGSTRA, Ph.D. A.B., Calvin College; M.A., Ed.S., Western Michigan University.
Education. Major Professor: Byron H. VanRoekel, Professor.
Thesis: An Analysis of the Nature of the Reading Comprehension Act by Means of the Rorschach Inkblot Test and Differential Measures of Reading Comprehension.
- DOROTHY HOSTETTER, Ph.D. B.M., Eastman School of Music; M.A., Michigan State University.
Psychology. Major Professor: Ellen A. Strommen, Associate Professor.
Thesis: The Function of Instructed Speech in Young Children's Performance of a Task Presented by Instructions.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- RICHARD ANTON HOUGH, Ph.D. B.S., University of Illinois; M.S., University of Michigan.
Botany and Plant Pathology. Major Professor: Robert G. Wetzel, Associate Professor.
Thesis: Photorespiration and Release of Organic Carbon in Submersed Aquatic Vascular Plants.
- DONALD WILLIAM JACKSON, JR., Ph.D. A.B., Albion College; M.B.A., Michigan State University.
Business Administration (Marketing).
Major Professor: William J. E. Crissy, Professor.
Thesis: An Investigation into the Performance and Feedback Monitoring Abilities of Salesmen Using Selected Interaction Variables.
- ELDRIDGE MOSES JAMES, Ph.D. B.S., Grambling College; M.Ed., Wayne State University.
Education. Major Professor: O. Donald Meaders, Professor.
Thesis: Traditional vs. Computer Based Vocational Guidance and Counseling Systems: Implications for Disadvantaged Youth.
- VIRGIL LOUIS JANUARY, Ph.D. B.S., Purdue University; M.A., Michigan State University.
Education. Major Professor: Bob B. Winborn, Professor.
Thesis: The Comparative Effects of an Implosive-Like Technique and Group "Rap" Sessions in Training White Counseling Students to be Effective When Counseling with Blacks.
- JAMES E. JENNINGS, Ph.D. B.S., Alabama State University; M.A., Michigan State University.
Education. Major Professor: James R. Nord, Assistant Professor.
Thesis: Perceptual Cognitive Styles and Personality Variables Relating to Students' Program Changes at An Inner-City Community College.
- GRANT LAMAR JENSEN, Ph.D. B.S., Brigham Young University; Ed.M., Oregon State University.
Education. Major Professor: Bob B. Winborn, Professor.
Thesis: Comparative Effects of Remote and Face-to-Face Supervision in a Competency-Based Counseling Practicum.
- SPENCER D. JORDAN, Ph.D. B.A., Harris Teachers College; M.A., University of Missouri.
Psychology. Major Professor: John H. Wakeley, Professor.
Thesis: A Comparison of Black and White Employees in Racially Homogeneous and Heterogeneous Companies: Internal-External Control Expectancies, Powerlessness, Instrumental Work Orientation, Organizational Identification, and Turnover.
- ARAKAL C. JOSEPH, Ph.D. B.C., Sacred Heart College; M.C., Andhra University.
Business Administration (Marketing). Major Professor: Donald S. Henley, Associate Professor.
Thesis: A Study of Consumer Behavior in Response to an Institutional Innovation in Retailing in India.
- MARIE E. KELLEY, Ph.D. B.A., Central Michigan University; M.A., Michigan State University.
Education. Major Professor: Elizabeth H. Rusk, Professor.
Thesis: Effects of Two Types of Teacher Response to Essays Upon Twelfth Grade Students' Growth in Writing Performance.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- MARY M. KENNEDY, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Stephen L. Yelon, Associate Professor.
Thesis: Effects of Perception of Organization and Information About Organization on Problem Solving.
- MARTHA KENT, Ph.D. B.A., M.A., University of Michigan; A.B.D., Indiana University; M.A., Michigan State University.
Psychology. Major Professor: Lucy R. Ferguson, Professor.
Thesis: Individual Identity: The Correlates of Perceiving Oneself as Unique or Anonymous.
- OK KYUN KIM, Ph.D. B.S., Seoul National University; B.S., M.S., University of Illinois.
Electrical Engineering. Major Professor: Kun-Mu Chen, Professor.
Thesis: Surface Wave End-Fire Antenna.
- PAIK KEE KIM, Ph.D. B.A., Seoul National University; M.A., Michigan State University.
Mathematics. Major Professor: Kyung W. Kwun, Professor.
Thesis: PL Involutions on Lens Spaces and Other 3-Manifolds.
- D. LAWRENCE KINCAID, Ph.D. B.A., Kansas University; M.A., Michigan State University.
Communication. Major Professor: Everett M. Rogers, Professor.
Thesis: Communication Networks, Locus of Control, and Family Planning Among Migrants to the Periphery of Mexico City.
- CHARLES DAVID KLINGMAN, Ph.D. B.A., University of Texas; M.A., University of Wisconsin.
Political Science. Major Professor: Timothy M. Hennessey, Associate Professor.
Thesis: Economic Development, Political Labor Movements, and Public Policy: A Quantitative Comparison of Time-Series Indicators for Norway and Sweden.
- JOHN JULIAN KOMAR, Ph.D. B.A., M.B.A., Michigan State University.
Education. Major Professor: Robert P. Poland, Professor.
Thesis: The Qualifications, Positions, and Problems of Chief Administrators of Vocational-Technical Education in Public Two-Year Colleges in the United States, with Special Reference to Michigan.
- KENNETH L. KOSANKE, Ph.D. B.S., Wisconsin State University.
Chemistry. Major Professor: William C. McHarris, Professor.
Thesis: A Study of the Helium-Jet Recoil-Transport Method.
- SOMPOP KRAIROJANANAN, Ph.D. B.S.C., M.S.C., Southampton University; M.A.T., Michigan State University.
Education. Major Professor: William M. Fitzgerald, Professor.
Thesis: The Mathematical Behaviors Derivable from the Program of Unified Science and Mathematics for Elementary Schools.
- MICHAEL HAMPTON LEGG, Ph.D. B.S., Auburn University; M.S., Michigan State University.
Forestry. Major Professor: G. Schneider, Associate Professor.
Thesis: Site Factors Useful in Predicting Deterioration on Forest Campsites in Northern Michigan.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- BARRY MARSHALL LESTER, Ph.D. B.A., Boston University; M.A., Michigan State University.
Psychology. Major Professor: Hiram E. Fitzgerald, Associate Professor.
Thesis: Cardiac Habituation to an Auditory Stimulus in Well and Malnourished Infants.
- LYCURGUS LYCURGUS LIAROPOULOS, Ph.D. B.A., Hamilton College; M.A., Michigan State University.
Economics. Major Professor: Mitchell Stengel, Assistant Professor.
Thesis: A Measure of Productive Efficiency with Application in Incentive Reimbursement for Hospital Care.
- KAREN RASMUSSEN LOUNSBURY, Ph.D. B.A., University of Calgary; M.A., Michigan State University.
Psychology. Major Professor: John P. McKinney, Professor.
Thesis: Age Changes in Occupational Prestige: A Perceptual Model.
- DELMAR FRANKLIN LOVEJOY, Ed.D. B.A., Emmanuel Missionary College; M.A., Michigan State University.
Education. Major Professor: Russell J. Kleis, Professor.
Thesis: Assessment of a Remedial English Program for Academically Disadvantaged Young Adults at Western Christian College.
- WILLIAM ANTHONY LOVIS, JR., Ph.D. B.S., New York University; M.A., Michigan State University.
Anthropology. Major Professor: Charles E. Cleland, Professor.
Thesis: Late Woodland Cultural Dynamics in the Northern Lower Peninsula of Michigan.
- MALCOLM E. LUND, Ph.D. B.A., Iowa State Teachers College; M.S., University of Wyoming.
Education. Major Professor: Helen H. Green, Professor.
Thesis: An Experimental Study Comparing Three Methods for Student Out-of-Class Practice in Intermediate Collegiate Gregg Shorthand.
- PAMELA WALSWORTH McALLISTER, Ph.D. B.S., M.S., Michigan State University.
Zoology. Major Professor: John R. Shaver, Professor.
Thesis: The Morphology, Histology and Function of the Seminal Vesicles in the Adult Male Frog, *Rana pipiens*.
- JAMES MICHAEL McCORMICK, Ph.D. B.A., Aquinas College; M.A., Michigan State University.
Political Science. Major Professor: Bruce Bueno de Mesquita, Assistant Professor.
Thesis: An Interaction Analysis of International Crisis: A Study of the Suez Crisis in the Six Day War.
- DOUGLAS NELSON McEWEN, Ph.D. B.S., M.S., Michigan State University.
Forestry. Major Professor: G. Schneider, Associate Professor.
Thesis: Herbaceous Composition and Productivity as Influenced by Canopy Removal in an Oak-Maple Stand.
- DELBERT SMITH McHENRY, JR., Ph.D. B.A., M.S., Central Washington State College.
Psychology. Major Professor: M. Ray Denny, Professor.
Thesis: Odor of Frustration as it Relates to the Number of Reinforced Trials Prior to Frustrative Nonreward.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- JOSEPH M. MEGO, Ph.D. A.B., University of Illinois; M.A., Columbia University.
Education. Major Professor: Max R. Raines, Professor.
Thesis: A Study of Normative and Emerging Functions of the Community College Development Officer with Implications for Competency Development.
- ALBERT R. MEREDITH, Ph.D. B.A., Grand Rapids Baptist College; M.A., Michigan State University.
History. Major Professor: Thomas Bushell, Associate Professor.
Thesis: The Social and Political Views of Charles Haddon Spurgeon, 1834-1892.
- COREEN LOUISE METT, Ph.D. B.S., Mankato State College; M.S., Michigan State University.
Mathematics. Major Professor: D. R. Dunninger, Associate Professor.
Thesis: Some Analogs of the Picone Identity Applied to Fourth Order Differential Equations.
- THOMAS O. MILBRODT, Ph.D. B.S., Bowling Green State University; M.S., Michigan State University.
Physics. Major Professor: Gerald L. Pollack, Professor.
Thesis: Helium II Film Transfer Rates for Solid Argon Beakers.
- JEREMIAH LEWIS MITCHUM, Ph.D. B.A., University of Tennessee; M.A., Peabody College.
English. Major Professor: Sam S. Baskett, Professor.
Thesis: Henry B. Fuller's Social and Esthetic Commentary.
- MERLYN DATT MONDOL, Ph.D. B.A., Isabella Thoburn College; M.A., Nizam College; N.Rt., Osmania University.
Education. Major Professor: Lee S. Shulman, Professor.
Thesis: The Paramorphic Representation of Teacher Decision Making as a Predictor of Inquiry Performance.
- JULIUS MYERS, JR., Ph.D. B.S., Tougaloo College; M.S., Tennessee A. and I. State University.
Education. Major Professor: George R. Myers, Professor.
Thesis: A Study of Criteria for Selection of Clinical Consultants in the Michigan State University Cluster Program.
- CHRIS FREDERICK NILSEN, Ph.D. B.S., Rochester Institute of Technology; M.S., Worcester Polytechnic Institute.
Metallurgy. Major Professor: K. N. Subramanian, Assistant Professor.
Thesis: Mechanical Properties of Alpha-Beta Brass-Studies on Model Systems.
- KIYOKO KURUSU NITZ, Ph.D. B.A., International Christian University; M.A., Michigan State University.
Political Science. Major Professor: Baljit Singh, Professor.
Thesis: Perception, Attitudes and Images: A Study of Japanese Foreign Policy Behavior.
- DOUGLAS EDWARD NORDHAUS, Ph.D. B.S., M.S., Michigan State University.
Chemistry. Major Professor: Jack B. Kinsinger, Professor.
Thesis: Brillouin Spectroscopy of Macromolecular Solutions.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- ANGELINA OBERTO, Ph.D. B.A., B.S., Montana State University; M.Ed., Colorado State University.
Home Economics Education. Major Professor: Norma S. Bobbitt, Associate Professor.
Thesis: Montana Home Economics Teacher Perceptions of Selected Societal Trends: Implications for Development of Family Life Curricula.
- KATHLEEN MARTIN O'DOWD, Ph.D. A.B., University of Michigan; M.A., Michigan State University.
English. Major Professor: Lawrence Babb, Professor.
Thesis: The Earthy Flame: A Study of the Poetry of Thomas Carew.
- ANTHONY B. OLEJNIK, Ph.D. B.S., M.A., Michigan State University.
Psychology. Major Professor: John P. McKinney, Professor.
Thesis: The Effects of Reward-Deservedness on Sharing by Children and the Relationships Between Role-Taking Moral Judgments and Sharing Behavior.
- LINDA MADSON PAPAGEORGE, Ph.D. B.A., St. Norbert College; M.A., Michigan State University.
History. Major Professor: Paul A. Varg, Professor.
Thesis: The United States Diplomats' Response to Rising Chinese Nationalism, 1900-1912.
- JEAN WARNER PEEK, Ph.D. B.S., University of Wisconsin; M.S., Ed.S., Southern Illinois University.
Education. Major Professor: Troy L. Stearns, Professor.
Thesis: A Humanistic Theory of Self in Conflict Intervention.
- DALE CORWIN PEERBOLTE, Ph.D. B.S., Calvin College; M.S., Michigan State University.
Anatomy. Major Professor: Bruce E. Walker, Professor.
Thesis: A Radioautographic Study of Lymphocyte Protein Production in Skin Allograft Rejection.
- RAYMOND PENNEY, Ph.D. B.A., University of Newfoundland; M.A., Michigan State University.
Psychology. Major Professor: Henry Clay Smith, Professor.
Thesis: Self-Esteem and the Search for Self-Awareness.
- JOSEPH R. PERNICONE, Ph.D. B.S., Rensselaer Polytechnic Institute; M.S., Michigan State University.
Physics. Major Professor: Peter A. Schroeder, Professor.
Thesis: Lattice Thermal Conductivity, Electronic Thermal Resistivity, and Electrical Resistivity of Tin in a Magnetic Field at Helium Temperatures.
- KENNETH HANLEY PRICE, Ph.D. B.A., Fairleigh Dickinson University; M.A., Michigan State University.
Psychology. Major Professor: John H. Wakeley, Professor.
Thesis: The Effects of Success, Failure and No Evaluation of Participatory, Autocratic and Leaderless Problem Solving Groups.
- JOYCE HEMMINGSEN PUTNAM, Ph.D. B.S., Central Michigan University; M.A., Michigan State University.
Education. Major Professor: Perry E. Lanier, Associate Professor.
Thesis: An Investigation of the Composition, Establishment, Transactions, and Outcomes of a Competency Development Team.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- JOHN MONROE QUARLES, Ph.D. B.S., M.S., Florida State University.
Microbiology and Public Health. Major Professor: P. Gerhardt, Professor.
Thesis: Hemodialysis Culture of Bacteria.
- ROSA SOMERA QUIACHON, Ph.D. B.S., University of the Philippines, M.S., Oregon State University.
Soil Science. Major Professor: Arthur R. Wolcott, Professor.
Thesis: Anthropods Associated with Breakdown of Corn (*Zea Mays*) Residues in the Field.
- GLEN ALLAN RASMUSSEN, Ph.D. B.S., Cornell University; M.S., Michigan State University.
Zoology. Major Professor: James C. Braddock, Professor.
Thesis: A Study of the Feeding Habits of Four Species of Fish, *Alosa pseudoharengus*, *Coregonus hoyi*, *Perca flavescens*, and *Osmerus mordax*, at Three Sites on Lake Michigan, as Compared to the Zooplankton, Phytoplankton and Water Chemistry of those Sites.
- ELIZABETH ROSEMARY REDSTONE, Ph.D. B.S., University of Colorado; M.A., Michigan State University.
Education. Major Professor: Max R. Raines, Professor.
Thesis: A Study of the Relationships Between Self-Perceived Involvement in Determining College Policies and Self-Reported Support of those Policies Among Faculty in a Multi-Unit Community College District.
- RUTH YZENBAARD REED, Ph.D. A.B., Hope College; M.A., University of Arkansas.
English. Major Professor: Lawrence Babb, Professor.
Thesis: The Prose Style of Lancelot Andrewes' Holy Day Sermons.
- SETH ROBERT REICE, Ph.D. B.A., University of Rochester.
Zoology. Major Professor: William E. Cooper, Professor.
Thesis: The Effect of Environmental Patchiness on the Breakdown of Leaf Litter in a Woodland Stream.
- JAMES ALLEN RICE, Ph.D. B.S., Northern Illinois University; M.S., University of Illinois.
Physics. Major Professor: B. H. Wildenthal, Professor.
Thesis: A Study of Several Odd-Odd s-d Shell Nuclei via The (p,d) Reaction at 35 MeV.
- THOMAS JOSEPH ROBINSON, Ph.D. B.S., Alcorn A & M College; M.A., Michigan State University.
Education. Major Professor: Dale V. Alam, Associate Professor.
Thesis: Chief Black School Administrators: A Critical Look at the Specific Factors Involved in the Selection of Chief School Administrators Who are Black.
- ELDRED D. ROLFE, Ph.D. B.S., Farmington State Teachers College; M.A., Michigan State University.
Geography. Major Professor: Lawrence M. Sommers, Professor.
Thesis: The Impact of Highway Improvement on Retail Sales and Structure in Selected Maine Centers 1960-1970.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- ARTHUR L. SAVAGE, JR., Ph.D. B.A., University of Alabama; M.A., Michigan State University.
Education. Major Professor: Erling S. Jorgensen, Professor.
Thesis: Increasing Emphatic Capabilities of Educational Change Agents: Evaluation of the Effect of a Three-Phase Instructional Strategy.
- EDWARD JAY SCHNEE, Ph.D. B.A., City University of New York; M.B.A., Michigan State University.
Business Administration (Accounting).
Major Professor: C. J. Gaa, Professor.
Thesis: A Computer Simulation of Seven Estate Planning Techniques.
- BONNIE SMITH SCHULWITZ, Ph.D. A.B., Allegheny College; A.M., University of Michigan.
Education. Major Professor: James E. Snoddy, Professor.
Thesis: An Investigation of the Effect of Listening Instruction Upon the Reading Comprehension of First Grade Pupils.
- ELIZABETH ANN WALKER SEAGULL, Ph.D. B.S., M.A., Michigan State University.
Psychology. Major Professor: Bertram P. Karon, Professor.
Thesis: An Investigation of Personality Differences Between Women with High and Low Premenstrual Tension.
- JAMES L. SHANKER, Ph.D. B.A., University of Michigan.
Education. Major Professor: James E. Snoddy, Professor.
Thesis: The Attitudes of Black Teachers Toward the Use of Dialect Reading Materials for Beginning Reading Instruction.
- RICHARD CHARLES SHANTZ, Ph.D. B.S., M.S., University of Guelph.
Food Science. Major Professor: Lawrence E. Dawson, Professor.
Thesis: Characterization of the Phosvitin Fraction of Avian Egg Yolk.
- WEI-HWA SHAW, Ph.D. B.S., Taiwan Normal University; M.S., Michigan State University.
Mathematics. Major Professor: Jerry D. Schuur, Associate Professor.
Thesis: Boundary Value Problems and Periodic Solutions for Continuous Differential Equations.
- ROBERT C. SHEARMAN, Ph.D. B.S., Oregon State University; M.S., Michigan State University.
Crop Science. Major Professor: James B. Beard, Professor.
Thesis: Turfgrass Wear Tolerance.
- ANN CONVERSE SHELLY, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Troy L. Stearns, Professor.
Thesis: Total Class Involvement in Simulation Game Development.
- GEORGE BERGLAND SHERMAN, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Gerald G. Duffy, Associate Professor.
Thesis: Instant and Mediated Word Identification: A Task Analysis.
- JOHN ROBERT SHOCK, Ph.D. B.A., Franklin-Marshall College.
Chemistry. Major Professor: Max T. Rogers, Professor.
Thesis: ESR Studies of Transition Metal Ions in Unstable Oxidation States.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- BARBARA HOUGHTON SHOWERS, Ph.D. B.S., M.A., Michigan State University.
Education. Major Professor: Robert L. Ebel, Professor.
Thesis: Alternative Response Definitions in Instructional Rating Scales.
- DONALD KEITH SHOWERS, Ph.D. B.S., M.S., Michigan State University.
Mathematics. Major Professor: Kyung W. Kwun, Professor.
Thesis: Involutions of 3-Manifolds with a 2-Dimensional Fixed Point Set Component.
- E. RALPH SICKMILLER, Ph.D. A.B., Greenville College; M.A., Eastern Michigan University.
Education. Major Professor: Roger C. Niemeyer, Assistant Professor.
Thesis: Confidence, Attitude, Desire to Teach, and an Early Clinical Experience.
- MARY WRYNN SMITH, Ph.D. B.A., Marymount Manhattan College; M.A., Michigan State University.
Philosophy. Major Professor: Richard J. Hall, Associate Professor.
Thesis: Scientific Laws and Necessity.
- VERNON KENT SMITH, Ph.D. B.A., Anderson College; M.A., Michigan State University.
Economics. Major Professor: Charles C. Killingsworth, Professor.
Thesis: The Employment and Earnings of AFDC Mothers: The First-Year Effect of the Earnings Exemption in Two Michigan Counties.
- STEPHEN LEE SNOVER, Ph.D. B.S., Massachusetts Institute of Technology; M.A.T., Harvard University; M.S., Michigan State University.
Mathematics. Major Professor: Leroy M. Kelly, Professor.
Thesis: The Uniqueness of the Nordstrom-Robinson and the Golay Binary Codes.
- AJIT SODHI, Ph.D. B.S., D.A.V. College; M.S., Punjab University.
Zoology. Major Professor: Surinder K. Aggarwal, Associate Professor.
Thesis: Fine Structural Analysis of Sarcoma-180 Before and After *cis*-Dichlorodiammineplatinum (II) in Swiss White Mice, *in vivo* and *in vitro* Studies.
- JIYA LAL SONI, Ph.D. B.V., M.V., College of Veterinary Science and Animal Husbandry.
Microbiology and Public Health. Major Professor: H. W. Cox, Associate Professor.
Thesis: Pathogenesis of Acute Avian Malaria.
- HAROLD JAMES SPOONER, Ph.D. B.A., B.Ed., University of Saskatchewan; M.A., Michigan State University.
Education. Major Professor: Paul W. F. Witt, Professor.
Thesis: An Exploratory Study to Determine Guidelines for the Selection and Production of Visuals for Use on Controlled Scan Television in a Classroom Setting.
- SARAH ANNE SPRAFKA, Ph.D. B.A., Purdue University; M.A., Middlebury School of French.
Education. Major Professor: Stephen L. Yelon, Professor.
Thesis: The Effect of Hypothesis Generation and Verbalization on Certain Aspects of Medical Problem Solving.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

- SPELIOS THEODORE STAMAS, Ph.D. B.S., Springfield College; M.Ed., University of Massachusetts. Education. Major Professor: Kent L. Gustafson, Associate Professor. Thesis: A Descriptive Study of A Synthesized Operational Instructional Development Model, Reporting Its Effectiveness, Efficiency, and the Cognitive and Affective Influence of the Developmental Process on a Client.
- NORMAN ROBERT STERCHELE, Ph.D. B.A., Cornell College; M.A., Michigan State University. Education. Major Professor: Charles A. Blackman, Professor. Thesis: An Investigation of Some Relationships Between Self-Actualization and Child-Centeredness Among Teachers.
- FLORENCE BYRD STEVENSON, Ph.D. B.A., University of Arkansas; M.A., The Ohio State University. Education. Major Professor: Laurine E. Fitzgerald, Professor. Thesis: Women Administrators in Big Ten Universities.
- RODNEY EUGENE STEVENSON, Ph.D. B.A., Monmouth College. Economics. Major Professor: Harry Trebing, Professor. Thesis: Postal Pricing Problems and Production Functions.
- BAILEY THOMAS STEWART, Ph.D. B.S., West Chester State College; M.Ed., Florida Atlantic University. Education. Major Professor: C. Keith Groty, Associate Professor. Thesis: A Comparative Study of the Degree and Level of Decision Influence Administrators and Faculty Members Exercise and Have Exercised in Selected Bargaining and Non-Bargaining Junior Colleges in Michigan.
- SHELBY STEWMAN, Ph.D. B.A., Ouachita Baptist University; M.A., Michigan State University. Sociology. Major Professor: Thomas Conner, Associate Professor. Thesis: Stochastic Models of System Occupational Mobility.
- FREDRICK ARNOLD STRACHE, Ph.D. A.B., M.A., University of Kentucky. Education. Major Professor: Walter F. Johnson, Professor. Thesis: An Analysis of Present and Predicted Student Union Programs and Facilities of Selected Midwestern Public Urban Universities.
- LAWRENCE CHUNG LEE SU, Ph.D. B.A., Hope College; M.S., University of Notre Dame. Biophysics. Major Professor: Dennis R. Heldman, Professor. Thesis: Theory of the Compensation Law and Its Applications in Biology.
- EDUARDO MATARAZZO SUPLICY, Ph.D. B.A., Escola de Administracao; M.A., Michigan State University. Economics. Major Professor: Mordechai Kreinin, Professor. Thesis: The Effects of Minidevaluations on the Brazilian Economy.
- CLYDE GEOFFREY SWENSON, Ph.D. B.A., M.S., University of Minnesota. Agricultural Economics. Major Professor: Robert D. Stevens, Associate Professor. Thesis: The Effect of Increases in Rice Production on Employment and Income Distribution in Thanjavur District, South India.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

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| V. TELLIS-NAYAK, Ph.D. | L.Ph., Sacred Heart College; L.D., De Nobili College; M.A., Loyola University.
Sociology. Major Professor: Herbert Karp, Associate Professor.
Thesis: Caste, Stratification, and Modernization Among Peasants in India. |
| ROBERT BARKALOW THOLL, Ph.D. | B.A., San Diego State College; M.A., California State College.
Education. Major Professor: Norman T. Bell, Professor.
Thesis: The Design of a Computer-Managed Instruction System for Use in Technical Education Programs at the Community College Level. |
| TIMOTHY THOMPSON, Ph.D. | B.A., M.A., St. Louis University.
Education. Major Professor: John W. Hanson, Professor.
Thesis: Secondary Education and Employment in Belize: A Tracer Study of Recent Graduates. |
| GERALD NICHOLAS TIROZZI, Ph.D. | B.S., M.A., Southern Connecticut State College.
Education. Major Professor: Howard Hickey, Associate Professor.
Thesis: An Assessment of the Expectations of School Administrators Concerning the Involvement of School-Community Advisory Councils in the Educational Decision-Making Process. |
| DANIEL FRANCIS TORTORA, Ph.D. | B.A., Queens College; M.A., Michigan State University.
Psychology. Major Professor: M. Ray Denny, Professor.
Thesis: The Effect of Incentive Size on Response Amplitude During Acquisition and Extinction. |
| RICHARD LEON TRIMBLE, Ph.D. | B.S., University of Missouri; M.S., University of Illinois.
Agricultural Economics. Major Professor: John R. Brake, Professor.
Thesis: An Economic Analysis of the Effect of Monetary Policy on the Beef Industry. |
| MEHMET YENER TULU, Ph.D. | Diploma, A. U. Ziraat Fakultesi; M.S., Michigan State University.
Agricultural Engineering. Major Professor: J. B. Holtman, Associate Professor.
Thesis: Simulation of Timeliness and Tractability Conditions for Corn Production Systems. |
| THOMAS WAYNE TUNKS, Ph.D. | B.M., M.M., Michigan State University.
Music. Major Professor: Robert Sidnell, Professor.
Thesis: Attitudes of Elementary Classroom Teachers Toward Elementary General Music: The Effects of Certain Aspects of Preservice Training. |
| AYDIN MUSTAFA ULUSAN, Ph.D. | B.A., Roberts College; M.A., Michigan State University.
Economics. Major Professor: Daniel Saks, Assistant Professor.
Thesis: An Econometric Analysis of Michigan's Welfare Caseload, 1968-71. |
| WILLIAM LLOYD VANDEBURG, Ph.D. | B.A., Western Michigan University; M.A., Michigan State University.
History. Major Professor: Frederick D. Williams, Professor.
Thesis: Rejected of Men: The Changing Religious Views of William Lloyd Garrison and Frederick Douglass. |

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

LARS VIK-MO, Ph.D.

B.S., Agricultural College of Norway; M.S., Royal Veterinary Academy.
Dairy Science. Major Professor: John T. Huber, Professor.
Thesis: Abomasal Infusion of Protein and Glucose in Lactating Cows.

MANTHA STELLA VLAHOS, Ph.D.

B.S., M.A., Michigan State University.
Education. Major Professor: Max R. Raines, Professor.
Thesis: Career Education in Michigan Community Colleges: A Comparative Analysis of Perceptions Among College Administrators and State Officials.

WILLIAM CHARLES WAGNER, Ph.D.

B.A., Lawrence University; M.A., Michigan State University.
Education. Major Professor: Vandel C. Johnson, Professor.
Thesis: A Study of Leader Behavior of College Administrators.

WESTBROOK ARTHUR WALKER, Ph.D.

B.A., Miles College.
Education. Major Professor: William Walsh, Professor.
Thesis: The Effect of the Holistic Approach of Teaching Elementary Science Education in Realizing the Process of Distinguishing and Manipulating Concepts of Magnetism With Culturally Different Children.

THOMAS EUGENE WALLENMAIER, Ph.D.

B.A., Sacred Heart College; M.A., Marquette University.
Philosophy. Major Professor: Joseph F. Hanna, Professor.
Thesis: An Explication of the Physiological Concept of Function.

WILLIAM JEFFREY WEIDNER, Ph.D.

B.A., M.S., Michigan State University.
Physiology. Major Professor: G. J. Gregga, Assistant Professor.
Thesis: Transvascular Fluid Movement and Segmental Vascular Resistances in Response to Transfusion in Endotoxin Shock.

JUANITA THOMAS WHATLEY, Ph.D.

A.B., Talladega College; M.A., Western Reserve University.
Education. Major Professor: Martin Hetherington, Assistant Professor.
Thesis: The Development and Relative Effectiveness of Informative and Investigative Modules to Teach Pre-Service Elementary Teachers the Skills Needed to Maintain Living Organisms in the Classroom.

KENNETH LEROY WILLIAMS, Ph.D.

B.S., Michigan State University; M.A., Western Michigan University.
Computer Science. Major Professor: Carl V. Page, Associate Professor.
Thesis: U-Tree Automata: Machines that Can Classify Patterns.

LLOYD MARK WILLIAMS, Ph.D.

B.Ed., B.A., Western Washington State College; M.Ed., University of Washington.
Education. Major Professor: Robert O. Nolan, Professor.
Thesis: Highway Traffic Safety Communication: A Study of the Opinions of Mass Media Representatives in the State of Michigan Toward Highway Traffic Safety Informational Services.

RICHARD STANLEY WILLIAMS, Ph.D.

B.A., M.A., Michigan State University.
History. Major Professor: Eleanor G. Huzar, Professor.
Thesis: Aulus Gabinius: A Political Biography.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1973 (Continued)

JEROME WALTER WITHERILL, Ph.D.

B.S., M.A., Michigan State University.
Education. Major Professor: Robert O. Nolan, Professor.
Thesis. The Feasibility of Using Selected Student Data Bases for the Assessment and Evaluation of Driver Education Programs in the State of Minnesota.

GEOFFREY GILBERT YAGER, Ph.D.

B.A., Harper College; M.A., State University of New York.
Education. Major Professor: Bob B. Winborn, Professor.
Thesis: The Effect of the Covert Behaviors of Visual Imagery, Self-Monitoring, and Self-Evaluation Upon the Overt Expression of Emotional Words.

EDUCATIONAL SPECIALIST DEGREE — GRADUATED SUMMER TERM, 1973

DAVID GORDON ANNIS, Ed.S.

B.S., Central Michigan University; M.A., Michigan State University.
Education. Major Professor: John H. Suehr, Professor.

WENDY JUNE BALZER, Ed.S.

A.B., Wheaton College; M.A., Michigan State University.
Education. Major Professor: Harvey F. Clarizio, Professor.

ROSEMARY SHELLY CAFFARELLA, Ed.S.

B.A., Springfield College; M.A., Michigan State University.
Education. Major Professor: Russell J. Kleis, Professor.

TED MICHAEL CAFFERTY, Ed.S.

B.S., M.A., Eastern Michigan University.
Education. Major Professor: Harvey F. Clarizio, Professor.

DAVID WILLIAM DEVIEW, Ed.S.

B.S., Central Michigan University; M.A., Eastern Michigan University.
Education. Major Professor: Charles A. Blackman, Professor.

FRANCINE PRISCILLA FISHER, Ed.S.

B.A., Marygrove College; M.E., Wayne State University.
Education. Major Professor: Lois A. Bader, Associate Professor.

MARCY ANN HARDIN, Ed.S.

B.A., Wayne State University; M.A., Michigan State University.
Education. Major Professor: Howard W. Hickey, Associate Professor.

HAZEL DEAN HENSON, Ed.S.

B.S., Wilmington College; M.A., Michigan State University.
Education. Major Professor: Alexander J. Kloster, Associate Professor.

ROBERT WAYNE McNALLY, Ed.S.

B.S., Western Michigan University; M.A., Michigan State University.
Education. Major Professor: Herbert C. Rudman, Professor.

SCHOOL FOR ADVANCED GRADUATE STUDIES

EDUCATIONAL SPECIALIST DEGREE — GRADUATED SUMMER TERM, 1973 (Continued)

NANCY JEAN PAXTON, Ed.S.	B.A., State University of New York; M.A., Michigan State University. Education. Major Professor: David K. Heenan, Professor.
RICHARD WESLEY RYDEN, Ed.S.	B.A., M.Ed., University of Arizona. Education. Major Professor: Alexander J. Kloster, Associate Professor.
WILLIAM F. SHAEFFER III, Ed.S.	B.S., M.S., Southern Illinois University. Education. Major Professor: Walter W. Scott, Associate Professor.
MARK A. SCHUERMAN, Ed.S.	B.A., M.Ed., Gonzaga University. Education. Major Professor: George R. Myers, Professor.
MARY LOUISE SOKOLOSKI, Ed.S.	B.A., M.A., Michigan State University. Education. Major Professor: Harvey F. Clarizio, Professor.
DANIEL EDWARD SULLIVAN, Ed.S.	B.S., Eastern Michigan University; M.A., Michigan State University. Education. Major Professor: Harvey F. Clarizio, Professor.
LOWELL G. THOMAS, Ed.S.	B.S., M.A., Western Michigan University. Education. Major Professor: Russell J. Kleis, Professor.

DIPLOMA FOR ADVANCED GRADUATE STUDY — GRADUATED SUMMER TERM, 1973

CHARLES FRANCIS CONLEY, JR., D.A.G.S.	B.S., University of South Carolina; M.A., Arizona State University. Statistics. Major Professor: Habib Salehi, Professor.
THOMAS WHITFIELD EDISON, D.A.G.S.	B.A., Salem State College; M.A., Eastern Michigan University. Geography. Major Professor: Ronald Horvath, Assistant Professor.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973

- MICHAEL ANTHONY ABRUZZO, Ph.D. B.S., M.S., Michigan State University.
Zoology. Major Professor: James V. Higgins, Professor.
Thesis: Dietary Effects on the Enzyme Activities of the Hypothesized Lysine-Urea Cycle in Rats.
- SAMI R. AL-ARAJI, Ph.D. B.S., Michigan State University; M.S., University of Connecticut.
Mechanical Engineering. Major Professor: James Vere Beck, Professor.
Thesis: Experimental Investigation of Transient Thermal Property Changes of Aluminum 2024-T351.
- IBTISSAM ABDULRAHMAN
AL-BASSAM, Ph.D. B.A., Ein Shams University; M.A.T., Portland State University.
Education. Major Professor: William E. Sweetland, Professor.
Thesis: A Study of Selected Factors Contributing to Students' Failure at the Freshman Level at Riyadh University.
- LINDA KATHLEEN ALLAL, Ph.D. A.B., Bucknell University; M.A., Michigan State University.
Education. Major Professor: Lee S. Shulman, Professor.
Thesis: Training of Medical Students in a Problem-Solving Skill: The Generation of Diagnostic Problem Formulations.
- GARY ALLEN ANDERSON, Ph.D. B.S., University of Michigan; M.S., Michigan State University.
Horticulture. Major Professor: William J. Carpenter, Professor.
Thesis: High Intensity Supplementary Lighting of Pot Chrysanthemums in the Greenhouse.
- JEAN APPERSON, Ph.D. B.A., University of Southern Florida; M.A., Michigan State University.
Psychology. Major Professor: Frances Elaine Donelson, Assistant Professor.
Thesis: Sex, Self-Esteem and Psychological Motivation for Sexual Behavior.
- JAMES WILLIAM BALKWELL, Ph.D. B.S., Central Michigan University; M.A., Michigan State University.
Sociology. Major Professor: Thomas L. Conner, Associate Professor.
Thesis: Social Choice Behavior: A Theoretical and Empirical Study.
- VIRGIL WAYNE BARTMAN, Ph.D. B.A., Calvin College; M.M., University of Michigan.
Music. Major Professor: Robert Sidnell, Professor.
Thesis: A Study of Practice Environments and Instrumental Music Achievement.
- AMANDA ANN BECK, Ph.D. B.S., Louisiana State University; M.A., Michigan State University.
Psychology. Major Professor: George W. Fairweather, Professor.
Thesis: The Application of Small Group Techniques to Training in Community Participation: A Field Experiment.
- FRANCIS ADALBERTO BERNIER, Ph.D. B.A., Michigan State University; M.A., Western Michigan University.
Education. Major Professor: Laurine E. Fitzgerald, Professor.
Thesis: The Presidents of the Faculty Collective Bargaining Units in United States Institutions of Higher Education.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

- KENNETH MICHAEL BERTRAM, Ph.D. B.S., Fordham University; M.B.A., Michigan State University. Business Administration (Marketing). Major Professor: Richard J. Lewis, Professor.
Thesis: A Comparative Analysis of Bargeship Systems: With Emphasis on Their Impacts on United States Seaports and Inland Ports.
- THIRAPHAN BHUKASWAN, Ph.D. B.S., Kasetsart University; M.S., Michigan State University. Fisheries and Wildlife. Major Professor: Peter I. Tack, Professor.
Thesis: Reservoir Ecology and Fishery Management, A Literature Review and Application to Ubolratana Reservoir, Thailand.
- MARK ALLAN BIEBER, Ph.D. B.S., University of Pittsburgh. Biochemistry. Major Professor: Charles C. Sweeley, Professor.
Thesis: Studies on the Biochemistry of Juvenile Hormone and Other Insect Lipids.
- FRANCIS SANDER BLOM, Ph.D. A.B., Calvin College; M.A., Michigan State University. Education. Major Professor: Dale V. Alam, Associate Professor.
Thesis: The Rationale for, Creation, Development, and Evaluation of Alternative Learning Environments Within the Public Schools with Special Emphasis on the Open-Informal Classroom.
- THOMAS LEE BOWMAN, Ph.D. B.A., College of Wooster. Chemistry. Major Professor: Eugene LeGoff, Associate Professor.
Thesis: Synthetic Approaches to 6,9:19,22-Diimino-2,26:13,15-Bis(dimethyletheno)-10,12:23,25-Bis(trimethylene)-3,7,8,18,20,21-Hexamethyl-1,14-Diaza[26] annulene.
- DANNY G. BRITT, Ph.D. B.S., Western Kentucky University; M.S., Michigan State University. Dairy Science and Institute of Nutrition. Major Professor: John T. Huber, Professor.
Thesis: Effect of Organic Acids and Non-Protein-Nitrogen on Fungal Growth, Nutritive Value, Fermentation and Refermentation of Corn Silage and High Moisture Corn.
- DUANE RUSSELL BROWN, Ph.D. B.A., M.A., Eastern Michigan University. Education. Major Professor: Russell J. Kleis, Professor.
Thesis: The Industrial Mutual Association: Contributor to the Educational, Recreational and Charitable Betterment of Flint, Michigan.
- JOSEPH ALEXANDER CAMERON, Ph.D. B.S., Tennessee State University; M.S., Texas Southern University. Zoology. Major Professor: Evelyn M. Rivera, Professor.
Thesis: Hormonal Regulation of Lipid Synthesis by Mouse Mammary Gland in Vitro.
- JOHN CHARLES CATAU, Ph.D. B.S., Frostburg State College; M.A., Bowling Green State University. Geography. Major Professor: Stanley W. Brunn, Associate Professor.
Thesis: The Process of "Retired" Migration to St. Petersburg, Florida.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

- SUCHAT CHANTIP, Ph.D. B.S., Chulalongkorn University; M.S., Michigan State University. Mathematics. Major Professor: Robert H. Wasserman, Professor. Thesis: Differential Equations Invariant Under One-Parameter Transformation Groups.
- ALBERT CHUNG-HO CHOU, Ph.D. B.S., National Taiwan University; M.S., West Virginia University. Biochemistry. Major Professor: John E. Wilson, Associate Professor. Thesis: Purification and Characterization of Rat Brain Hexokinase.
- PAIBOON CHOWCHUVECH, Ph.D. B.E., Chulalongkorn University; M.S., Stanford University. Civil Engineering. Major Professor: Robert R. K. Wen, Professor. Thesis: Dynamic Analysis of Underground Cylinders Subjected to Earthquake Excitation.
- LARRY WAYNE CHRISTENSEN, Ph.D. B.S., Lewis and Clark College. Zoology. Major Professor: Lynwood G. Clemens, Associate Professor. Thesis: Neural-biochemical Control of Masculine Sexual Behavior in the Laboratory Rat (*Rattus Norvegicus*).
- THOMAS FRANK CHRISTIAN, Ph.D. B.A., St. Paul Seminary; M.S., Michigan State University. Social Science. Major Professor: Robert C. Trojanowicz, Professor. Thesis: The Organized Neighborhood, Crime Prevention, and the Criminal Justice System.
- DONALD RALPH CILIAUX, Ph.D. B.A., University of California; M.S., Colorado State University. Audiology and Speech Sciences. Major Professor: Herbert J. Oyer, Professor. Thesis: Lip Reading Performance as Affected by Continuous Auditory Distractions.
- AKIBA AARON COHEN, Ph.D. B.A., Hebrew University; M.A., Michigan State University. Communication. Major Professor: Bradley S. Greenberg, Professor. Thesis: Coping with Uncertainty, Information Usage and Ticket Splitting.
- ESTHER CHAYA GOLDMAN COHEN, Ph.D. B.A., Hebrew University; M.A., Michigan State University. Psychology. Major Professor: John P. McKinney, Professor. Thesis: Empathy, Awareness of Interpersonal Responsibility and Consideration for Others in Young Children.
- JOHN CURTIS COLLINS, Ph.D. B.S., Wittenberg University. Physics. Major Professor: Morton M. Gordon, Professor. Thesis: Phase Selection Mechanisms in Isochronous Cyclotrons Producing High Resolution Beams.
- JOAN LOUISE CRANDALL, Ph.D. B.A., Michigan State University; M.A., Aquinas College. Arts and Letters Interdisciplinary. Major Professor: Arthur Sherbo, Professor. Thesis: Blenheim: Battle, Palace and Symbol. A Study of One Aspect of the Politics, Literature and Architecture of the Queen Anne Period.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

- WILLIAM CLARK CROTHERS, Ph.D. B.A., University of Michigan; M.B.A., Western Michigan University. Education. Major Professor: Walter F. Johnson, Professor. Thesis: A Multiple Correlation and Regression Analysis Comparing Faculty Activity Survey With Other Methodologies for Allocating Costs to Courses.
- NEIL H. CULLEN, Ph.D. B.A., University of Rochester; M.A., Cornell University. Education. Major Professor: Walter F. Johnson, Professor. Thesis: Written Evaluation at Justin Morrill College: Implementing an Organizational Innovation.
- TAPAN K. DATTA, Ph.D. B.E., Bengal Engineering College; M.S., Wayne State University. Civil Engineering. Major Professor: William C. Taylor, Professor. Thesis: Development of a General Purpose Simulation Model for Evaluation and Selection of Optimal Demand Responsive Bus Systems.
- NANCY LEE DAVIDSON, Ph.D. B.A., University of Michigan; M.A., Michigan State University. Psychology. Major Professor: Hiram E. Fitzgerald, Associate Professor. Thesis: Pacification in Infants as a Function of the Agent and Preference for Tactile Stimulation.
- MARY ANN DILLER, Ph.D. A.B., MacMurray College; M.A., University of Illinois. Education. Major Professor: Russell J. Kleis, Professor. Thesis: Individual and Social Benefits of Federally Supported Continuing Education.
- ELIZABETH ARCHER DODSON, Ph.D. B.A., Swarthmore College; M.A., University of Pennsylvania. Education. Major Professor: Norman R. Stewart, Professor. Thesis: The Effects of Female Role Models on Occupational Exploration and Attitudes of Adolescents.
- FRANCIS MARTIN DOMOY, Ph.D. B.A., M.A., State University of New York. Resource Development. Major Professor: Daniel E. Chappelle, Professor. Thesis: Outdoor Recreational Land Use Selection Model.
- DAVID WALLACE DUNLOP, Ph.D. B.S., University of California; M.A., Michigan State University. Economics. Major Professor: John P. Henderson, Professor. Thesis: The Economics of Uganda's Health Service System: Implications for Health and Economic Planning.
- LONNIE CALVIN EILAND, JR., Ph.D. B.S., Alcorn A & M College; M.S., Atlanta University. Zoology. Major Professor: Charles S. Thornton, Professor. Thesis: The Relation of Nerves to Multiple Regeneration in a Single Newt Limb.
- JAMES MICHAEL FALVEY, Ph.D. B.A., Williams College. Economics. Major Professor: Bruce T. Allen, Assistant Professor. Thesis: The Adjustment of Electric Power Generation to Alternative SO₂ Standards: A Case Study in Environmental Protection Regulation.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

- ESTHER ONAGA FERGUS, Ph.D. B.Ed., M.A., University of Hawaii.
Psychology. Major Professor: George W. Fairweather, Professor.
Thesis: The Role of Telephonic Consultations in Creating Innovation Adoption in Health Organization.
- GORDON EVERETTE FERGUSON, Ph.D. B.S., North Dakota State College; M.S., University of Minnesota.
Education. Major Professor: H. Paul Sweany, Professor.
Thesis: Perceived Importance of Identified Competencies as a Basis for Developing Educational Programs in Small, Rural Agribusiness Management.
- DOUGLAS BRIAN FONNER, Ph.D. B.S., M.S., Michigan State University.
Physiology. Major Professor: Jack R. Hoffert, Associate Professor.
Thesis: Electrophysiological Evidence for the Necessity of the Counter Current Oxygen Multiplier Mechanism in Maintaining Teleost Vision.
- SHIRLEY TIGHE FRANK, Ph.D. B.S., College of St. Teresa.
Psychology. Major Professor: Dozier Thornton, Associate Professor.
Thesis: The Effect of Husbands' Presence at Delivery and Childbirth Preparation Classes on the Experience of Childbirth.
- LEWIS FRIEDMAN, Ph.D. B.A., Hunter College; M.A., Michigan State University.
Political Science. Major Professor: O. Charles Press, Professor.
Thesis: Municipal Policy Making: A Comparative Study of Budgeting Public Funds.
- CLYDE CHARLES GEHRIG, Ph.D. B.D., Trinity College; M.S.W., Lovola University.
Social Science. Major Professor: Lucille K. Barber, Professor.
Thesis: The Principle of Client Self-Determination in Social Work: A Re-Evaluation.
- CHRISTOPHER DAVID GILBERT, Ph.D. B.A., University of California; M.A., Michigan State University.
Psychology. Major Professor: David Wessel, Assistant Professor.
Thesis: Relations Among Handedness, Hemisphere Localization, and Perceptual Skills of the Right Hemisphere.
- DONALD MERLE GRAGG, Ph.D. B.A., Willamette University; M.D.C.M., McGill University; M.A., U.S. International University.
Education. Major Professor: Walter F. Johnson, Professor.
Thesis: The Teaching of Adult Ambulatory Patient Care in U.S. Medical Schools: Characteristics of Programs.
- DONALD CHARLES GRAVES, Ph.D. B.S., St. John's University; M.S., North Dakota State University.
Microbiology and Public Health. Major Professor: Leland Velicer, Assistant Professor.
Thesis: Separation and Analysis of Proteins From Feline Leukemia Virus.
- GLENN EARL HECK, Ph.D. B.A., M.A., Wheaton College.
Education. Major Professor: Carl H. Gross, Professor.
Thesis: The Constitutional and Legal Development of the State Board of Education as the Central Education Agency in Michigan.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

MARK ALBERT HECTOR, Ph.D.

A.B., Albion College; M.A., Michigan State University.
Education. Major Professor: Bob B. Winborn, Professor.
Thesis: Evaluation of an Instructional Model for Teaching Counselor Trainees How to Establish Behavioral Objectives in Counseling.

JOHN DANIEL HELM III, Ph.D.

B.S., Davidson College; M.A., North Carolina State University.
Zoology. Major Professor: Rollin H. Baker, Professor.
Thesis: Reproductive Biology of *Tyomys* and *Ototylomys*.

EDWARD OSCAR HENRY, Ph.D.

B.S., General Motors Institute; M.A., Michigan State University.
Anthropology. Major Professor: Charles Morrison, Associate Professor.
Thesis: The Meanings of Music in a North Indian Village.

ELLEN HEYTING, Ph.D.

M.A., Michigan State University.
Education. Major Professor: Ruth Hill Useem, Professor.
Thesis: Trends in General and Alternative Modes of Education in Their Economic and Social-Psychological Settings: A Case Study in Sweden.

JAMES HOWARD HIGHTOWER, Ph.D.

B.S., Edward Waters College; M.A., Michigan State University.
Education. Major Professor: John E. Jordan, Professor.
Thesis: Relationships of the Minnesota Multiphasic Personality Inventory and the Bipolar Psychological Inventory to Each Other and to Incarcerated Heroin Addicts.

JOHN PHILIP HOLDEN, Ph.D.

B.A., Monmouth College; M.S., University of Pennsylvania.
Education. Major Professor: William E. Sweetland, Professor.
Thesis: A Study of the Effects of Biologically Relevant Physics Textual Material on Student Attitudes and Achievement in Physics 231 at Western Kentucky University.

DAVID JUAN HOUSTON, JR., Ph.D.

B.S., Fort Valley State College; M.A., New Mexico State University.
Education. Major Professor: O. Donald Meaders, Professor.
Thesis: Occupational Adjustments and Selected Characteristics of Rural People Migrating to and From Urban Areas.

PING-CHUAN HU, Ph.D.

B.A., National Taiwan Normal; M.S., Northwestern State College of Louisiana.
Microbiology and Public Health. Major Professor: Robert N. Brubaker, Associate Professor.
Thesis: Purification and Characterization of Pesticin.

JANE NETTING HUFF, Ph.D.

B.A., Antioch College; M.S., Michigan State University.
Zoology. Major Professor: John King, Professor.
Thesis: The "Distress" Cry of Infant Deermice, *Peromyscus*: Physical Characteristics, Specific Differences, Social Function.

HAROLD ARTHUR HUGHES, Ph.D.

B.S., Michigan State University; M.S., University of Arizona.
Agricultural Engineering. Major Professor: Chester J. Mackson, Professor.
Thesis: Energy Consumption in Beef Production Systems as Influenced by Technology and Size.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

- EUGENE ALEXIS IMHOFF, JR., Ph.D. B.B.A., M.B.A., Western Michigan University.
Business Administration (Accounting). Major Professor: Roland F. Salmonson, Professor.
Thesis: An Empirical Examination of Income Manipulation.
- GERALD LYNN INGALLS, Ph.D. B.A., University of Southwestern Louisiana; M.A., University of Florida.
Geography. Major Professor: Stanley D. Brunn, Associate Professor.
Thesis: Spatial Change in Post-War Southern Republican Voting Responses.
- TARAFDER RABIUL ISLAM, Ph.D. B.A., M.S., Rajshahi University; L.L.B., Dacca University.
Agricultural Economics. Major Professor: Robert D. Stevens, Associate Professor.
Thesis: Alternative Low-Lift Pump Irrigation Policies in Bangladesh: An Economic and Financial Analysis
- CLARA MURPHY JENNINGS, Ph.D. B.S., M.S., Arkansas A.M. & N.; Ed.S., Wayne State University.
Education. Major Professor: Donald H. Nickerson, Associate Professor.
Thesis: The Impact of the Education Professions Development Act, Part B, Subpart II on Preparing Teachers for the Economically Disadvantaged Students: Experimental Programs in Two Michigan Urban School Districts.
- ELEANOR J. JOHNSON, Ph.D. B.Ed., M.A., McGill University.
Anthropology. Major Professor: Scott Cook, Associate Professor.
Thesis: Marketwomen and Capitalist Adaptation: A Case Study in Rural Benin, Nigeria.
- RAYMOND HOWARD JOHNSON, Ph.D. B.A., Augustana College; M.A., Michigan State University.
Psychology. Major Professor: John H. Wakeley, Professor.
Thesis: Initiating Structure, Consideration, and Participative Decision Making: Dimensions of Leader Behavior.
- DAVID JOHN JUDE, Ph.D. B.S., University of Minnesota.
Fisheries and Wildlife. Major Professor: Niles Kevern, Professor.
Thesis: Sublethal Effects of Ammonia and Cadmium on Growth of Green Sunfish.
- JERRY NELSON JUDY, Ph.D. B.S., West Virginia University; M.A., Michigan State University.
Sociology. Major Professor: James Zuiches, Assistant Professor.
Thesis: Job Search and Economic Absorption of Automobile Workers.
- AARON KARNILOW, Ph.D. B.S., College of New York; M.A., Michigan State University.
Psychology. Major Professor: Joseph Reyher, Professor.
Thesis: A Comparison of Oedipal and Peer Sex Through the Use of Hypnotically Implanted Paramnesias.
- DAVID PRISMAN KARSTEN, Ph.D. B.A., Hope College; M.A., Northwestern University.
Theatre. Major Professor: Frank Rutledge, Professor.
Thesis: A Descriptive Study of the Sprecher Concept as Found in Selected Plays by George Chapman, Cyril Tourneur, and John Webster.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

- STANLEY F. KASPRZYK, Ph.D. A.B., University of California; M.S., University of Pennsylvania.
Education. Major Professor: C. Blair MacLean, Professor.
Thesis: Technology: A Theoretical Base for Industrial Arts Education.
- CHONG-JIN KIM, Ph.D. B.S., Chunchou Agricultural College; M.S., Korea University.
Botany and Plant Pathology. Major Professor: William J. Hooker, Professor.
Thesis: Fungicide Redistribution on Potato Leaves.
- KENNETH HERMAN KORTRIGHT, Ph.D. B.A., M.S., University of Nebraska.
Physiology. Major Professor: E. Paul Reineke, Professor.
Thesis: *In Vitro* Production, Disc Gel Electrophoretic Isolation and Purification of Rat Prolactin.
- TIMOTHY JAMES KUBIAK, Ph.D. B.A., University of Toledo; M.A., Michigan State University.
Resource Development. Major Professor: William J. Kimball, Professor.
Thesis: Community Decision Makers' Attitudes Toward Agency Program Effectiveness.
- SUDHAKAR RAJARAM KULKARNI, Ph.D. B.E., University of Poona; M.S., University of North Dakota.
Civil Engineering. Major Professor: Robert K. Wen, Professor.
Thesis: Computer-Aided Design of a Two-Span Cantilever Highway Bridge.
- ANIL KUMAR, Ph.D. B.S., Bihar Institute of Technology; M.S., Michigan State University.
Mechanics. Major Professor: Terry Triffet, Professor.
Thesis: Rayleigh-Brillouin Light Scattering in Liquid Silicones.
- LARRY ROSS LANG, Ph.D. B.A., Michigan State University.
Business Administration (Finance). Major Professor: Roland I. Robinson, Professor.
Thesis: The Effects of a Corporation's Multinational Diversification on Its Common Stock Shareholders' Return and on Their Risk Exposure.
- ROSS ALBERT LEE, Ph.D. B.S., University of Rochester.
Chemistry. Major Professor: William H. Reusch, Professor.
Thesis: The Kinetically Controlled Enolization of α , β -Unsaturated Ketones and Its Synthetic Utility.
- KAI YUI LEI, Ph.D. B.S., University of London; M.S., University of Guelph.
Human Nutrition. Major Professor: Modesto G. Yang, Associate Professor.
Thesis: Oral Contraceptives, Norethynodrel and Mestranol: Effects on Glucose Metabolism.
- R. WESLEY LEID, JR., Ph.D. B.A., M.S., Central Washington State College.
Microbiology and Public Health. Major Professor: Jeffrey F. Williams, Assistant Professor.
Thesis: Immunological Events Associated with *Taenia taeniaeformis* Infections in the Laboratory Rat.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

- THEODORE LEE LOUDON, Ph.D. B.S., M.S., University of Wyoming.
Agricultural Engineering. Major Professor: Ernest H. Kidder, Professor.
Thesis: Moisture Movement from a Subsurface Irrigation Source.
- JOHN WILLIAM LOUNSBURY, Ph.D. B.A., Portland State College; M.A., University of Calgary.
Psychology. Major Professor: George W. Fairweather, Professor.
Thesis: A Community Experiment in Dissemination Models for Citizen Environmental Action.
- ABDUL MANNAN, Ph.D. B.A., Seraj Ganj College; M.A., Rajshahi University; M.A., Michigan State University.
Education. Major Professor: David K. Heenan, Professor.
Thesis: Trends and Issues in the Economics of Non-Formal Education.
- TERRY WAYNE MCDANIEL, Ph.D. B.A., Wittenberg University; M.S., Michigan State University.
Physics. Major Professor: Carl L. Foiles, Associate Professor.
Thesis: The Construction of a Vibrating Sample Magnetometer and a Study of Magnetic Interaction in Dilute Alloys With Atomic Order-Disorder Transitions.
- THOMAS L. MCDOLE, Ph.D. B.S., M.S., University of Michigan.
Education. Major Professor: Robert E. Gustafson, Associate Professor.
Thesis: Development of a General Knowledge Test for Use in Motorcycle Operator Education and Evaluation Programs.
- ROBERT THEODORE McELHOSE, JR., Ph.D. B.A., Bethany College; M.A., Oklahoma State University.
Education. Major Professor: Samuel A. Plyler, Professor.
Thesis: Supervisor — Supervisee Complementarity and Relational Distance as Related to Supervisor Experience Level.
- ELLIS EUGENE MELTON, JR., Ph.D. B.M.E., Ouachita College; M.M., Michigan State University.
Music. Major Professor: Robert G. Sidnell, Professor.
Thesis: A Study of Differences Among Various Groups of Michigan State University Music Students.
- ABOLGHASSEM MIAMEE, Ph.D. B.S., Tehran University; M.S., Pahlavi University.
Mathematics. Major Professor: Habib Salehi, Professor.
Thesis: Banach Space Valued Stationary Stochastic Processes and the Factorization of Nonnegative Operator Valued Functions on a Banach Space.
- BARBARA KENRICK MILLER, Ph.D. B.S., M.S., Cornell University.
Family Ecology. Major Professor: Jean D. Schlater, Professor.
Thesis: Family-Community Resource Linkages and Their Relation to Selected Family Variables.
- JAGMOHAN MUNDHRA, Ph.D. B.Tech., Indian Institute of Technology; M.B.A., Michigan State University.
Business Administration (Marketing). Major Professor: Leo G. Erickson, Professor.
Thesis: An Application of Flow-Approach to the Study of Domestic Marketing Abroad: A Case Study of India's Motion Picture Industry.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

- CURTIS SMITH MURTON, JR., Ph.D. B.A., M.A., University of Michigan.
Education. Major Professor: James H. Nelson, Professor.
Thesis: Role Choice Orientation of Michigan Public Community College Presidents in Collective Bargaining Negotiations: A Study in Role Conflict Resolution.
- EDWARD LOUIS MYLES, Ph.D. B.A., Arizona State University; M.A., University of Oklahoma.
Geography. Major Professor: Stanley Brunn, Professor.
Thesis: Geographic Dimensions of Central Administrative Offices in the Australian Economy.
- GLENN LAWRENCE NELSON, Ph.D. B.S., University of Minnesota.
Agricultural Economics. Major Professor: Lester Manderscheid, Professor.
Thesis: The Financing of Higher Education: With Specific Application to Michigan.
- KIRK A. NIGRO, Ph.D. B.S., Northern Michigan University; M.A., Ed.S., Central Michigan University.
Education. Major Professor: Alexander J. Kloster, Associate Professor.
Thesis: An Analysis of an Appraisal, By Graduates, of the Specialist and Doctoral Programs in Educational Administration at Michigan State University, 1965-1972.
- LEVI AKALAZU NWACHUKU, Ph.D. B.A., Lincoln University; M.A., Howard University.
History. Major Professor: James R. Hooker, Professor.
Thesis: U.S./Nigeria: An Analysis of the U.S. Involvement in the Nigeria/Biafra War 1967-70.
- PAUL JOHN OBERLE, Ph.D. B.S., M.A., Central Michigan University.
Education. Major Professor: George R. Myers, Professor.
Thesis: An Evaluation of the Central Michigan University Thumb Area Teen Ranch Tutorial Program's Influence Upon the Affective Attitudes and Values of Secondary Student Teachers.
- KARL E. OHLSSON, Ph.D. B.S., Purdue University; M.S., Eastern Michigan University.
Botany and Plant Pathology. Major Professor: Henry A. Imshaug, Professor.
Thesis: A Revision of the Lichen Genus *Sphaerophorus*.
- HAROLD EVANS OLD, JR., Ph.D. B.S., Marquette University; M.A., Western Michigan University.
Political Science. Major Professor: Joseph A. Schlesinger, Professor.
Thesis: Bureaucratic Structure, Rational Bureaucrats and Bureau Policy.
- DON ARDEN OLSON, Ph.D. B.A., M.B.A., Michigan State University.
Business Administration (Marketing). Major Professor: William Lazer, Professor.
Thesis: The Perception of Nutrition and Nutritional Labelling in the Buying Decisions Among Affluent Consumers.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

- RICHARD JOHANN OREND, Ph.D. B.A., Western Michigan University; M.S., University of Wisconsin. Political Science. Major Professor: Frank A. Pinner, Professor. Thesis: Policy Making Regarding the Drug Problem: An Experimental Study of Cognitive Complexity and Small Group Decision-Making.
- EUGENE FRANK PALERMO, Ph.D. B.A., College of St. Thomas. Chemistry. Major Professor: Stanley R. Crouch, Associate Professor. Thesis: Nondispersive Atomic Adsorption and Atomic Fluorescence Spectrometry.
- POLLY WIETZKE PETERSON, Ph.D. B.S., University of Michigan; M.A., Michigan State University. Education. Major Professor: Byron H. VanRoekel, Professor. Thesis: The Effects of Telegraphic Prose, Compressed Speech and Modality Upon Comprehension.
- PHILIP PFAFF, Ph.D. B.E., Rensselaer Polytechnic Institute; M.A., Fordham University. Economics. Major Professor: Robert H. Rasche, Associate Professor. Thesis: Forecasting the Money Stock.
- RAYMOND LEON PORTER, Ph.D. B.S., Tri-State College; M.S., Montana State University. Chemical Engineering. Major Professor: Carl M. Cooper, Associate Professor. Thesis: Physical Model for Mass Transfer in a Packed Bed.
- MAURLINE MURRAY PREACHE, Ph.D. B.A., Mercer University; M.A., Florida Atlantic University. Psychology. Major Professor: John I. Johnson, Professor. Thesis: Normal Retention During Inhibition of Photosynthesis Induced by Cycloheximide in Rats.
- SYED KALEEMULLAH QUADRI, Ph.D. B.V.Sc., Osmania University; M.S., Kansas State University; M.S., Michigan State University. Physiology. Major Professor: Joseph Meites, Professor. Thesis: Effects of Central Acting Drugs and Ergot Derivatives on Prolactin and Growth Hormone Secretion, on Growth of Pituitary and Mammary Tumors and on Reproduction in Old Rats.
- CHERYL ANN RABIDEAU, Ph.D. B.S., Rochester Institute of Technology; M.A., Michigan State University. Education. Major Professor: Lawrence Borosage, Professor. Thesis: A Developmental Study of Teachers' Ability to Identify and Write Performance Objectives.
- ANIL VENKAT RAO, Ph.D. F.V.SE., Ramnarein Ruia; In.Sc., Indian Institute of Technology. Metallurgy. Major Professor: Howard L. Womochel, Professor. Thesis: Banding (Segregation) and Its Influence on the Impact and Fatigue Properties of High-Strength SAE 4340 Steel.
- LYMAN THAIR RATE, Ph.D. B.A., University of Kansas; M.A., Miami University. Education. Major Professor: Richard Johnson, Associate Professor. Thesis: Effect of Interpersonal Anxiety Reduction, Self-Evaluation Reinforcement, and Overt Self-Reinforcement Availability on College Student Subsequent Self-Evaluation and Self-Reinforcement Responses.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

- FRANCOISE RAVAU, Ph.D. B.A., Centre National Detell; M.A., Michigan State University. French, Language and Literature. Major Professor: Maria Kronegger, Professor.
Thesis: A La Recherche De La Realite: Nature et Progression de la Recherche que Proust Fait Poursuivre à son Personnage Marcel.
- FRANK C. P. REED III, Ph.D. B.S., State University College; M.S., Michigan State University. Botany and Plant Pathology. Major Professor: Stephen N. Stephenson, Associate Professor.
Thesis: The Effects of Chronic and Single Nutrient Inputs on First Year Fallow Vegetation in Michigan.
- DAVID ARTHUR REICOSKY, Ph.D. B.S., Kent State University. Forestry. Major Professor: James W. Hanover, Professor.
Thesis: Developmental and Physiological Aspects of Surface Waxes of Blue Spruce.
- MARION MILLER RICE, Ph.D. B.A., M.Ed., Wayne State University. Education. Major Professor: Max R. Raines, Professor.
Thesis: An Exploration of Educational Cognitive Styles as a Vehicle for Determining Potential Success of Community College Students Within Selected Occupational Curricula.
- MARTHA EVELYN SNELL ROWLAND, Ph.D. B.A., M.A., Michigan State University. Education. Major Professor: James E. Keller, Professor.
Thesis: A Study of the Use of Higher Functioning Retardates as Language Acquisition Trainers of Lower Functioning Retardates in Attendant Supervised Training Sessions on Institutional Wards.
- S. NICHOLAS SAMUEL, Ph.D. B.Sc., University of London; M.S., Michigan State University. Agricultural Economics. Major Professor: Lawrence W. Witt, Professor.
Thesis: Redistributing Income Through Technological Change in Agriculture: Implications for SRI Lanka's Paddy Subsector.
- LARRY STUART SCHAFTENAAR, Ph.D. B.A., M.A., Western Michigan University. Education. Major Professor: James E. Keller, Professor.
Thesis: A Study of Michigan Public School Classrooms for Emotionally Disturbed Children Relating Specific Program Variables to Teacher Judgments of Program Adequacy.
- L. PATRICK SCHEETZ, Ph.D. B.S., M.S., Purdue University. Education. Major Professor: Richard L. Featherstone, Professor.
Thesis: A Comparison of Personnel Information Storage and Retrieval Systems for the Placement Services of Selected Universities.
- RANDALL STEVE SCHULER, Ph.D. B.A., M.B.A., M.L.I.R., Michigan State University. Business Administration (Management). Major Professor: Henry L. Tosi, Professor.
Thesis: A Path-Goal Theory of Leadership: An Empirical Investigation.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

- ROSE A. SCHWARTZFISHER, Ph.D. B.S., M.S., Michigan State University.
Education. Major Professor: William M. Fitzgerald, Professor.
Thesis: A Case Study of the Effect of an Innovative Approach in a College General Education Mathematics Course.
- GAIL JOAN SELLSTROM, Ph.D. B.A., Sacramento State College; M.A., University of Illinois.
Psychology. Major Professor: Lawrence O'Kelley, Professor.
Thesis: Cortical Lesions and Sexual Behavior in the Male Rat.
- THOMAS BEECHER SHIPLEY, JR., Ph.D. B.S., Mount Union College; M.A., Michigan State University.
Education. Major Professor: Laurine E. Fitzgerald, Professor.
Thesis: A Survey of the Attitudes of the 1972-73 Members of the Michigan State University Academic Council with Respect to One Year of Student Participation in Academic Governance.
- JOHN EDD SHIRLEY, Ph.D. B.S., M.S., Western Kentucky University.
Dairy Science and Institute of Nutrition. Major Professor: Roy S. Emery, Professor.
Thesis: Regulatory Aspects of Triglyceride Uptake by Bovine Adipose and Mammary Tissues.
- FRANCIS DEAN SILVERNAIL, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Carl H. Gross, Professor.
Thesis: The Role of Judicial Review in the Determination of Educational Policy and Actions: A Case for Caution.
- COLIN HENDERSON SMITH, Ph.D. B.A., Dalhousie University; B.E., M.A., University of British Columbia.
Education. Major Professor: Carl H. Gross, Professor.
Thesis: The Excelsior Sixth Form Teacher Training Pilot Project 1970-1972 Jamaica - A Study in Change.
- GLORIA MARY SMITH, Ph.D. B.A., M.A., University of British Columbia.
Education. Major Professor: Carl H. Gross, Professor.
Thesis: The New Junior Secondary Schools of Jamaica.
- KENNETH SMITH, Ph.D. B.A., Atlantic Union College; B.D., Andrews University; M.A., Michigan State University.
Audiology and Speech Sciences. Major Professor: Daniel S. Beasley, Associate Professor.
Thesis: Temporal Factors Associated With Measurements of Oral Stereognosis.
- BASSAM AHMED SNOBAR, Ph.D. B.S., Alexandria University; M.S., Michigan State University.
Agricultural Engineering. Major Professor: Larry J. Segerlind, Associate Professor.
Thesis: Engineering Parameters Related to the Hardness of Carrots.
- JONATHAN HAROLD SPINNER, Ph.D. B.A., City College of New York.
English. Major Professor: George R. Price, Professor.
Thesis: A Textual Edition of the First Quarto of *Henry V*.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

- DENNIS STEUART SPRANDEL, Ph.D. A.B., Albion College; M.Ed., University of Arizona.
Education. Major Professor: John E. Ivey, Jr., Professor.
Thesis: Leader Behavior: An Analysis of the Athletic Director in Colleges of a Selected Mid-Western Athletic Conference.
- KATHERINE RICHARDS SPRANDEL, Ph.D. B.A., Western Maryland College; M.A., Michigan State University.
English. Major Professor: Joseph J. Waldmeir, Professor.
Thesis: Richard Wright's Hero: From Initiate and Victim to Rebel and Isolate (An Achronological Study).
- VASSILIOS CHRISTOS STAMOUDIS, Ph.D. B.S., University of Athens.
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.
Thesis: Factors Controlling Product Stereospecificity in the Reduction of Carbonyl Compounds with Alcohol Dehydrogenase and Nicotinamide Adenine Dinucleotide.
- RICHARD E. STUCKEY, Ph.D. B.A., Goshen College; M.S., Michigan State University.
Botany and Plant Pathology. Major Professor: Albert H. Ellingboe, Professor.
Thesis: Elongation of Secondary Hyphae and Translocation of ^{35}S and ^3H from Host to Parasite During Primary Infection of Wheat by *Erysiphe graminis* f. sp. *tritici*.
- HOVAV TALPAZ, Ph.D. B.A., The Hige Institute for Agriculture.
Agricultural Economics. Major Professor: Warren H. Vincent, Professor.
Thesis: Simulation, Decomposition and Control of a Multi-Frequency Dynamic System: The United States Hog Production Cycle.
- MARY MARGARET TANNAHILL, Ph.D. B.S., Texas Technical University.
Chemistry. Major Professor: Jack B. Kinsinger, Professor.
Thesis: Investigation of the Liquid Structure of Dimethyl Sulfoxide-pyridine Mixtures With Brillouin Spectroscopy.
- ASEFA TEFERRI, Ph.D. B.A., University College; M.A., University of Ottawa.
Economics. Major Professor: John P. Henderson, Professor.
Thesis: Incomes Policy for East Africa with Special Reference to Uganda.
- LARRY RALPH TEITSMA, Ph.D. A.B., Hope College; B.D., Western Theological Seminary; M.A., Michigan State University.
Education. Major Professor: Norman Kagan, Professor.
Thesis: Physiological Responses of Electrical Skin Conductance, Heart Rate, and Respiration Rate of Alcoholics and Non-Alcoholics to Affective Stimulus Films.
- FRANK ALLEN THROOP, Ph.D. A.B., Central Michigan University; M.A., Michigan State University.
Education. Major Professor: Vandel C. Johnson, Professor.
Thesis: Professional Autonomy in the Lansing Public Schools: A Model for the Decentralization of Administrative Functions in an Urban School System.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREE — FALL TERM 1973 (Continued)

ISMAEL OBWOYA UMA, Ph.D.

Certificate, Teso College; M.S., Michigan State University.
Agricultural Engineering. Major Professor: George E. Merva, Associate Professor.
Thesis: Development and Evaluation of a Permeable Laboratory Catchment to Investigate Relationships of Antecedent Moisture, Rainfall Intensity Infiltration and Runoff.

GERALD JAMES VAN FOSSEN, JR., Ph.D.

B.S., M.S., Michigan State University.
Mechanical Engineering. Major Professor: James V. Beck, Professor.
Thesis: Model Building Incorporating Discrimination Between Rival Mathematical Models in Heat Transfers.

LUIS GABRIEL VILLA, Ph.D.

I.A., Universidad Nacional de Colombia; M.S., University of Nebraska.
Agricultural Engineering. Major Professor: Fred W. Bakker-Arkema, Professor.
Thesis: Single Particle Convective Moisture Losses from Horticultural Products in Storage.

DEREK WHORDLEY, Ph.D.

Associateship, College of Preceptors; M.A., Michigan State University.
Education. Major Professor: James E. Snoddy, Professor.
Thesis: Teaching the Research Study Skills in a Team Teaching Situation at the Sixth Grade Level.

FRANK CRIDER YOUNG, Ph.D.

B.S., Florence State University.
Education. Major Professor: Robert O. Nolan, Professor.
Thesis: A Study of Selected Factors Related to Accident Involvement of Motorcycles in Ingham County, Michigan, in 1971.

JOSEF ZOLMAN, Ph.D.

B.S., Agricultural and Technical College of Czechoslovakia; M.S., University of Brad.
Dairy Science. Major Professor: Edward M. Convey, Associate Professor.
Thesis: Regulation of Bovine Anterior Pituitary Hormones Release and Synthesis.

LOWELL SETH ZURBUCH, Ph.D.

B.S., M.A., Kent State University.
Education. C. Blair MacLean, Professor.
Thesis: A Study of the Acceptance of Open Education Concepts by Industrial Arts Teacher Educators.

JACOB ZYNGER, Ph.D.

B.S., Brooklyn College.
Chemistry. Major Professor: Stanley R. Crouch, Associate Professor.
Thesis: A Minature, Nanosecond Spark Source for Fluorescence Lifetime Determinations and for Time-Resolved Emission Spectrochemical Analysis.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR EDUCATIONAL SPECIALIST DEGREE — FALL TERM, 1973

MARJORIE MUSOLF BACLAWSKI, Ed.S.	B.A., M.Ed., University of Maryland. Education. Major Professor: Peggy L. Miller, Associate Professor.
THELMA BLEECHER, Ed.S.	B.A., M.S., Brooklyn College. Education. Major Professor: James E. Snoddy, Professor.
ELIZABETH ANN CANADY, Ed.S.	B.A., M.A., Michigan State University. Education. Major Professor: Sheila M. Fitzgerald, Assistant Professor.
ROBERT DOCTOR, Ed.S.	B.S., Central Michigan University; M.A., Michigan State University. Education. Major Professor: Samuel A. Moore II, Professor.
HAROLD J. ELENBAAS, Ed.S.	B.S., Michigan State University; M.S., Central Michigan University. Education. Major Professor: Frederick R. Ignatovich, Associate Professor.
RICHARD E. HOWE, Ed.S.	B.A., Michigan State University; M.A., Western Michigan University. Education. Major Professor: Alexander J. Kloster, Associate Professor.
JOHANN FRIEDRICH INGOLD, Ed.S.	B.S., M.A., Michigan State University. Education. Major Professor: Richard L. Featherstone, Professor.
LESLIE GEORGE MCCAIN, Ed.S.	B.A., M.A., Michigan State University. Education. Major Professor: Russell J. Kleis, Professor.
D. RALPH PRITCHARD, Ed.S.	B.A., M.A., Michigan State University. Education. Major Professor: Charles E. Henley, Professor.
NEAL VERNON SINGLES, Ed.S.	B.A., Albion College; M.A., University of Notre Dame. Education. Major Professor: John H. Suehr, Professor.

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

LAWRENCE L. BOGER, DEAN

GRADUATED SUMMER TERM, 1973

DEGREE OF
MASTER
OF SCIENCE

Agricultural Economics

Josef Meinrad Broder
Garth Hartley Holmquist
Stephen O. Sparks

Agricultural Mechanization

Joseph Bernard Bozung

Animal Husbandry

Ralph Jarold Lipsey

Biochemistry

Dorothy Boerner Mann
Dan Michael Patrick II

Dairy Science

N. Alfred Dutrow

Fisheries and Wildlife

Douglas Allen Bulthuis
Thomas James Edwards

Philip Simeon Heller

Robert L. Hite
Jay Michael Johnson
Thomas Vern Kreh
Edward E. Langenau, Jr.
Scott Jon Reger
Howard Dean Wandell

Food Science

John F. Blanco
Kulvadee Trongpanich

Forestry

Douglas Edward Duch
Hong Van Huynh

Horticulture

Mathew John Benvenuto
Dennis Edward Deyton
Robert LeRoy Hatch
Luther Moxley

Park and

Recreation Resources

Thomas R. Hewlett

Poultry Science

Gibril Owereh Fadika

Resource Development

Jeffrey Michael Doyle
Craig Dennis Osteen

Soil Science

Raymond Laurin

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF ENGINEERING

Agricultural Engineering

Raul Apacla
Gerald Leon Avery

CANDIDATES — FALL TERM, 1973

DEGREE OF
MASTER
OF SCIENCE

Agricultural Economics

Michael Carleton Dennis
Thomas Miller Dickey
Salah Youssef Elnaggar
Esko T. Lindstedt
Leo Charles Mulholland

Agricultural Mechanization

Adalberto Diaz
Howard Joseph Doss II
Ashok Annasaheb Shinde

Animal Husbandry

Douglas E. Meiburg

Crop Science

Bernard Louis Marchetti
B. H. Zakri

Dairy Science

Roger John Kittok

Fisheries and Wildlife

Douglas Lynn Nelson

Food Science

Michael E. Mangino
Ganapathy Narayanan
Lyle John Shannon
Maria Cristina Zulueta

Forestry

Atalla Ahmed Abohassan
Thomas Harry Black
Juan Enrique Liesegang
Kenneth Alan Ottman
Douglas Lee Smith

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

DEGREE OF MASTER OF SCIENCE

Horticulture

Phildon Brent DeMille
Linda Lee Knowlton
Ramachandra Subramanya

Packaging

Ronald Roger Holland

Park and

Recreation Resources

Paul Bernard Hamel
James N. Holleran

Robert Emmet Manning
David Anthony Mihalic
William Eric Rakozy

Poultry Science

Susumu Iwamoto

Resource Development

Theodore Roberts Alter
Eric Jay Berry
Signe Jo Collinson
Martin Edward Hanratty
Edward John Hood

Soil Science

Worapote Rumpninin
Chao-Nan Tang

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF ENGINEERING

Agricultural Engineering

Oscar Antoino Braunbeck
Sam Chuan Hsieh
Carlos E. Lescano

Animal Husbandry

John Russell Anstead
Ronald M. Crafton
John Albert Johnston
Wayne Robert Kendall
Mark R. Shawver
Kenneth Michael Spence

Building Construction

Thomas Kim Kretschmer
Gregory Austin Mathews
John George Nanry
Timothy William Zehnder

Crop Science

*David Edward Coleman

Fisheries and Wildlife

Stanley Joseph Bober
David Michael Bonga
Huntley James Burroughs
Thomas Lee De Ruiter
Douglas Robert Drapal
Richard John Hess
Steven Roger Kell
James Reginald Nicholas
*Ralph Bruce Pelletier
Michael Dean Philips
Gerald Paul Rakoczy
John Conrad Schwanekamp
Ralph Springer Stevens
Keith Ivan Todd
Denise Ann White
Paul Elson Wilson

Food Science

Francis Edward Avery
Harry Maris Brants
Hernan G. Marin

Food Systems Economics and Management

*Derek Charles Carissimi
Edward Albert Dudgeon
Daniel Carl Lyons

Wayne Phillip Preuett
William Bruce Richards
Eldon Jay Roberts
Thomas E. Schneider

Forestry

*James Stanley Bielecki
William Howard Carr
**Isabel Louise Fisk
Darrell Paul Fuller
Richard Grant Harris
**William Dennis Hudson
Richard Paul Huyssen
Kyle Mason Kittleson
*Gregory John Kowalewski
Brian James McCreedy

Horticulture

*Frederick P. Blair
David Bowerman Ehrlinger
Nancy Ann Jennings
*Sally Ann Sellers
Karen Ann Shaffer
Thomas A. Simons
*Christopher J. Starbuck
Elaine Zimmer

Packaging

John Stanley Bazydlo
Maurice Louis Beaver
Theodore Edward Coffman II
Larry Dreffs, Jr.
Ronald C. Lankfer
Mark Frederick Mettler
Paul Timothy Obolewicz
Gerald Michael Palazzolo
Paul Howard Ramsay
Sidney Morris Rauch
William Charles Sweetland
*Robert Joseph Ten Eyck

Park and

Recreation Resources

Thomas James Bartoszek
Constance Carrie Chisholm
Dale Eugene DeKuiper

Charles Frederick Garber
Wilbur Andrew Gasper
Albert Havinga
Timothy Jay Kincaid
Thomas Alfred Korinek
Martin B. Overholt
Ronald Rene Pattyn
Richard Erwin Schneider
Jack Sheehan
**Elaine Louise Smith
**Craig Robert Wiese

Poultry Science

**Dale Edward Dumaw

Public Affairs Management

Diane Christine Buckel

Resource Development

*John George Davis
Thomas B. Finn
Dennis Michael McDonough
Fred Jerome Moore
James George Stark
*Robert Dean Sterken

Soil Science

Edward Allen Richards

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF
COMMUNICATION ARTS

Agriculture and Natural Resources Communication

**Cynthia Enid Willis

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Agricultural Education

Susan Kay Robertson

* With Honor
** With High Honor

DEGREE OF BACHELOR OF SCIENCE

COLLEGE OF ENGINEERING

LAWRENCE W. VON TERSCH, DEAN

GRADUATED SUMMER TERM, 1973

DEGREE OF
MASTER
OF SCIENCE

Chemical Engineering

Kirk Thomas Cobb
Richard Lee Holloway

Civil Engineering

Julius Folorunso Obembe

Computer Science

Dwight William Bates
James E. Bossenbroek
Gary Burch Crockett
Raymond Youssef Fadous

Joseph Thomas Johnson
Mitchell G. Roth
Turki Mahmoud Miri Said
Martin E. Stegenga
Claudia Sue Winer

Mechanical Engineering

Rocco Thomas Campanelli
Pak-Chung Ho
Frederick Joseph Ringe

Mechanics

Gian Maria Manfredini

Metallurgy

Kaeo Songkhao

Sanitary Engineering

Donald Joseph Ey

Systems Science

Michael Raymond Jaske
Daniel Franklin Wiener II

CANDIDATES — FALL TERM, 1973

DEGREE OF
MASTER
OF SCIENCE

Civil Engineering

Thursak Boonyakachon

Electrical Engineering

Abdul Khalid Bokhari
Seyed Hossein
Mousavinezhad
Philip Allen Priest
Frank Saggio III

Mechanical Engineering

Harold William Bulger, Jr.
Mark Randall Ray
Lee Olin Ringham

Sanitary Engineering

Po Peng Chang

Systems Science

John Frederick Cole, Jr.
Kenichirou Narukawa
Richard Alex Schultze
Paul Howard Tress

DEGREE OF
BACHELOR
OF SCIENCE

Agricultural Engineering

Randy Reed Bedell

Chemical Engineering

*Michael Raymond Borghi
Brian Charles Howard
Gregory Lee Melrose
Viresh P. Patel
Robert Dean Squire

Civil Engineering

Shamel Mohamed
Abou-El-Seoud
Brian Peter Backos
H* John M. Cavanaugh
Jack Edward Dishman
David Dean France
Robert James Hampton

*Gerard James Higgins

Stephen Lee Hughes
David Arthur Jackson
Steven Paul Karlowski
Mickey James Sutton

**Richard Allen Van Heukelum

H* John Mead Vanstratt

**William George Willson

H Honors College
* With Honor
** With High Honor

COLLEGE OF ENGINEERING

DEGREE OF
BACHELOR
OF SCIENCE

Computer Science

William C. Carey
*Mark T. Johnson
Keith Eric Kusterer
Stephen Paul Norwick
Joan Marie Strzempek

Electrical Engineering

*Richard Louis Borgen
James Michael Mulholland
George Paul Seroka
William Edmond Spørk
*Steve Carl Timm
John Traxler

Mechanical Engineering

Myron Jerome Borders
Gary Lane Burgess
Ronald Allen Dery
Ronald Wallace Edwards
*Floyd G. Jackson
*David Raymond Markle
*Dennis Carl McLaughlin
Timothy Michael Morris
Gerald Henry Murray
Robert Andrew Norby
*Jaime G. Plans
Anthony Thomas Pung
Douglas John Vial

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF AGRICULTURE
AND NATURAL RESOURCES

Agricultural Engineering

Thomas LeRoy Bailey
Randy Reed Bedell
**Larry Raymond Borton
Thomas Martin Dennison

* With Honor
** With High Honor

COLLEGE OF HUMAN ECOLOGY

LOIS A. LUND, DEAN

GRADUATED SUMMER TERM, 1973

DEGREE OF
MASTER
OF ARTS

Child Development

Susan P. Berger
Barbara Ann Faidley
Susan Kay Galey
Wilbur Leo Swarthout II
Susan Carol Turbow

Clothing and Textiles

Elizabeth M. Dolan

Family Studies

Elayne Noreen Graff
Eileen Mae Haas
Marthadawn Hartel
Karen Linda Smith Lawrence
Michael Stephen Smith
Lawrence

Home Economics Education

Libbie Christine Bristow
Phyllis L. Combs
Patricia Ann Cushman
Margaret McLellan
Jean Schaefer Welsh

Human Shelter and Interior Design

Janet Peters Krumme
Betty Jean Stevens
Marc Randall Yops

DEGREE OF
MASTER
OF SCIENCE

Community Services

Patricia Ann Fuerstenau

Foods

Mary Elisabeth Kerr

Human Nutrition

Pungpis Dulyapach
Joanne Huseman Fino

CANDIDATES — FALL TERM, 1973

DEGREE OF
MASTER
OF ARTS

Child Development

Susan Sieveke Hook
Patricia Donahue Judy
Jane Marie Olson

Family Economics and Management

Helena Eva Hedlund
Janet Gilmore Lewis

Family Studies

Judith Ann Gould
Hye Son Jon
Louise Annette Knight
Marion Johnston Knight
Susan Sadako Osaki
Joseph Michael Weiss
Naomi Jean Yoder

Home Economics Education

Jacqueline Paulette Anderson

Human Shelter and Interior Design

Charlys Ione Ward

COLLEGE OF HUMAN ECOLOGY

DEGREE OF
MASTER
OF SCIENCE

Community Services

Grace S. Reid

Human Nutrition

Young Hee Ha
Doris Hu
RayShiang Christine Su
Cynthia Bramlett Thompson

Institutional Administration

Julia Anne Kotschevar

DEGREE OF
BACHELOR
OF ARTS

Interior Design

*Linda Sue Barrows
Pamela Mary Comer
Joanne Christine Edquist
Lupe Rosario Gottschalk

Elizabeth Brock Guenther
Judith Anne Kosar
Deborah Andruccioli Kroupa
*Eliza Jane Lackie

*Gayle Levitsky Morrison
Marjorie Anne Swick
*Leora Ruth White
Barbara Lee Wilson

Clothing and Textiles

*Kathy Ann Cyr
Diane Carol Ford
Margaret Eileen Kelley
Kathleen Mary Perry
Paula Beverly Podojil
Shelley Jo Walters
Terry Young

Consumer-Community Services

Elaine Marie Broxholm
Judy Ann Domire
Sharon Leslie Ehlke
*Carol Elizabeth Etter
*Margaret J. Flannery
Christine Ann Goeschel
Linda Marie Kish
Judy Lee Phillips
*Miriam Alicia Saxton
Gweneth Lee Sharpe

Dietetics

Cheryl Lynn Bonk
Cheryl Diane Dusseau

Foods

Kimberly Joanne Bryant

General Home Economics

*Christine Crotty Brown
Shirley Marie Schwing

Human Environment and Design

*Pamela Rae Draft
Dawn Elaine Miller
Deborah Dawn Perry
Kristen Ann Rech

Retailing of Clothing and Textiles

*Ann D. Badertscher
Yvonne Marie Bass
Robert Lee Chatman, Jr.
Kellery Anne Dempsey
Marie Kathleen Dierickx
Carol Enid Durst
Barbara Jo Feldmann
JoAnn K. Goniea
Linda Joan Gotts
Pamela Denise Henderson
*Patricia Susan Hoffman
*Janina Franciszka Kiebala
Susan Gwen Klopp
Kathleen Ann Lewis
TommaLou Lowry
Janet Alison Miller
Brenda Kay Oliver
Pamela R. Plummer
Stuart Ross Rapaport
*Rita Mary Reaume
Linda Ann Selby
Vickie M. Watkins

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Child Development and Teaching

*Judith Lee Clink
Judy A. Donovan
*Julienne Driskill
Catherine Ann Feeheley
Kathryn Joyce Guild
Cynthia Sue Hamilton
*Christine Anne Miller
Kathryn Lee Owens
*Diane Marie Russell
Barbara A. Schaudt
Mari Anne Turner
*Peggy Ann Waller

Home Economics Education

Patricia Sue Brooks
*Christine Frances DeYonke
*Stella Brown Economy
H* Nanette Barbara Filthaut
*Kathryn Margaret Griffith
*Kathryn Elizabeth Ladiski
Patti Claire Koivisto
*Nancy Lee Lamphier

DEGREE OF
BACHELOR
OF SCIENCE

H Honors College
* With Honor
** With High Honor

COLLEGE OF VETERINARY MEDICINE

WILLIS W. ARMISTEAD, DEAN

GRADUATED SUMMER TERM, 1973

DEGREE OF
MASTER
OF SCIENCE

Microbiology and
Public Health
George Arthur Hylton

Pathology
John Jordan Andrews
Vernon Budington Aultman

Small Animal Surgery
and Medicine
Sandee Morris Hartsfield

CANDIDATES — FALL TERM, 1973

DEGREE OF
DOCTOR OF
VETERINARY
MEDICINE

Cynthia Jeanne Baumhart
*Grace Anne Boulton
*Alan Hopkins Bush
Peggy Galles Chamberlain
David Steven Couturier
*James E. Dowd
**Donald Fredrick Dries
*Jeffrey M. Feld
Lynne Marie Friday
Arnold Allen Gertonson
Thomas Alan Gremel
Linda Jane Griebel
Nancy Ruth Johnson
*Robert John Kart
Sharman D. Karwoski

James Quentin Knight
*Janice Marie Krakora
Kenneth S. Krawford
James George Lasley
Katherine Lawrence
James Floyd Leonard
*David Witherspoon Lowrance
*James Bruce MacLean
*James Richard Main
Paul William Mesack
*Eugene William Meyer, Jr.
Marvin Herman Meyer
Thomas James Naples
Marshall Spencer Newman
Susan Elizabeth O'Brien
*Keith E. Overbaugh

John Lawrence Peters
*Thomas Jacob Ratke
Joseph Frank Roehl
*Richard Gregory Scholfield
*Michael John Scott
**Darrell Kent Shefstad
James Clifford Shell
*Kathryn Elizabeth Simons
*Mary Dee Sist
*Ernest William Vandermast
*Michael Allen VerHage
**Sally Ann Wagerly
Martha Sampson Watkins
*Jeffrey Weitz
Dennis Richard White

DEGREE OF
MASTER
OF SCIENCE

Anatomy
Eleanor Virginia Nielson

Pathology
James Patton Davidson
Louis Edward Newman
Behzad Yamini

* With Honor
** With High Honor

COLLEGE OF BUSINESS

KULLERVO LOUHI, DEAN

GRADUATED SUMMER TERM, 1973

DEGREE OF
MASTER
OF ARTS

Economics

John Robert Mielke
Pradumna Bickram Rana

Alvaro Silva
Daniel A. Sumner

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

DEGREE OF
MASTER OF
BUSINESS
ADMINISTRATION

Stephen H. Armstrong
Lonnie John Bewernitz
Robert Joseph Bowersox, Jr.
Rex Clair Bryan
Richard Paul Chulick
Michael Francis Cottrell
James Ray Crook
Gregory Caulfield Crown
Robert James Dempsey
Coral Sue Dowd
Martin Walter Dukes, Jr.
Diane Marie Eston
Ronald Rae Flietstra
Donald William Gailey
Robert Darryl Gaines
David Alan Goodof
Frank Berman Gordon
Marc Joel Gordon

John Edward Gunter
Arthur Witt Hadley
Christopher Bertram Harris
Dennis R. Hoppe
Robert Raynor Kurz
Hong Juay Lee
Thomas Alan Lehrke
George Linder
Leo Harry Litowich
§Robert D. MacLean
Michael Dolan McIsaac
Charles Burrows McNamee
Kenneth Frank Migdalski
Richard Morgenstein
Ralph James Naveaux
Keith Thaddeus Obal
Michael Duane Olsen

James John Ostarello
Timothy John Quast
Stanley Ernst Richards
Michael Ray Ross
Clifton Ray Scroggs, Jr.
Bernard Seiler
Hector Sistos
Marshall Edward Smith
Michael Ray Smits
David Stanley Tolbert
Richard Ray Trail
Walter Tau Chyr Tung
Robert Stuart Vor Broker
Orhan Yetginer
Edward Henry Ytsma
Ronald James Zeppieri
Lawrence Clyde Zinox

CANDIDATES — FALL TERM, 1973

DEGREE OF
MASTER
OF ARTS

Economics

Loukas Ioannis Ananikas
Hernan Arboleda
Roberto Mario Bocchetto

Charles Albert Dillard
David L. Haselschwerdt
Barry Russell Litman
Vincenette Morganti

§ Posthumously

COLLEGE OF BUSINESS

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

DEGREE OF MASTER OF BUSINESS ADMINISTRATION

Tawfik M. Aboshetiah
Herbert Nelson Ashley
Jerome Harold Baglien
Bruce Ivan Behnke
Gregory Evans Bradbury
Antonius Wilhelmus Maria
Van Breen
Patrick J. Carroll
Michael Chucta
Robert Edward Copping
Bryan Michael Doelle
Chedly M. Fayache
Richard Charles Harris
FitzGerald
David Andrew Fuller
Gregory Gromek
Jacquelyn Anderson Hedlund
Joseph Oliver Henley
Frank William Jack
Henry Christie Jacobi

Tracy Edward Johnson
Douglas Saunders Jordan
Patrick Dennis Kennedy
Joseph William Kinsey
Michael Clinton Kostrzewa
Donald Law, Jr.
Luciano Saboia Lopes-Filho
Paul Douglas Lydy
Masakatsu Magata
Thomas Michael Magill
Gary Wayne Malkus
Laine Evan Malmquist
John Douglas McInnes
Victor John McPhee
Curt James Monhart
Thomas Dennis Nastas
Brian Dennis Nyman
Thomas Allen Peterson
Michael Jeffrey Pickens
José Straunard Pimentel

Thomas Bradley Quarton
Marcial Rocha
Carlos Enrique Santioz
James Ted Schubel
Bruce Steven Sherman
Keith M. Sipperley
K. Daniel Streiff, Jr.
Gregory Allan Strintz
Takero Suga
Frank Richard Tomascik
Paul Tsatsos
Joyce Pauline Vincelette
David William Vinton
Jesse James Waldon, Jr.
Alan R. Walter
William George Warburton
John Lawrence Weurding
Gerrit Cornelis Wilbrink
Jack King Yee
Jay Martin Yentis

DEGREE OF BACHELOR OF ARTS

Accounting

Jack Arthur Allen
Michael Dale Beck
Jay Eugene Cardinal
*James V. Cronkhite
Kenneth Justin Dennis
Ricky Lee Duisternars
Kelley Gene Dutcher
Gretchen Ann Ederer
James F. Flannery
Douglas William Gager
*Albert John Gustafson
Joseph W. Harrison
*David Charles Heist
Patrick Allen Horan
Kenneth Roger Kamp
*James W. Knapp
H* Ronald Thomas Kozera
Frederick Bruce Myers
James Michael Oates
Michael George Petersen
Robert Gerald Reske
*Gregory David Ruppel
H* William Kenneth Salatka
Jack E. Short II
Donald Arthur Siebert
Margaret Ann Smith
Gerald Anthony Somerville
*Nanette M. Terry
H* Bruce Cyril Thelen
Brenda Sue Wagner
James H. Wilson II

Economics

Paul W. Barden
*Bruce George Bartlett
Richard Wayne Bautel
Evan Charles Castetter
*Frederick P. Certano

H Honors College
* With Honor
** With High Honor

William George Holtman
*Michael Joseph LoGrasso
Roy William Siegel
Ernest Randolph Smothers
Darrell Paul Snyder
H* Richard Michael Spruit
H* Kane Yee

Financial Administration

William Robert Burke
Daniel Patrick Giroux
Garold Curtis Maslanik
Debra Kay Smith
Keith John Wolnewitz

Food Systems Economics and Management

Harriet Czarnopys

General Business Administration

*Richard A. Algra
Arthur Franklin Allen
Glen Dean Blystone
Ernest R. Fedewa
H* David Welles Gardner
*Allen McRae Harrelson III
David Michael Hausbeck
Norman Edsel Jones
David L. Kemp
James Joesph Kent
Jeffrey L. Kline
Edward Lowell Lammy
David Laney
John Jay Mannel
H* Alesia Ranney Marinelli
Suzanne Marie Maurice
Patrick H. McHugh

*Larry Orlowski
John M. Pennell
Calvin Douglas Root
David Walter Saloway
Leland Howard Seiss
*Ted Louis Steciak
*Gerard Clement
St. Germanine
William Frederick Swiger, Jr.
Dennis Greig Taylor
Samuel F. Test
Robert William Thull
Robert Mark Timyan
*Eileen Ann Tucker
John David Veneman
Gerald Lynn Willcutt

Hotel and Restaurant Management

John F. Adams II
George Lindsay Alward, Jr.
Michael Andrew Assaff
Joseph H. Bell
Robert Alan Caine
Wayne Wai Chang
Gary George Dayne
Alan J. Dille
William Michael Fair
*Richard Dean Farrar
Bruce Michael Farrell
*James Robert Gerish
Wells D. Gutshall II
Robert Harwood Hansz
John Paine Hawes
Freddie Lamar Hawkins
Kenneth Wilkin Kirk
*Holly Ann Lester
Theodore K. Malkasian
James Rawson Mohler

COLLEGE OF BUSINESS

DEGREE OF BACHELOR OF ARTS

Hotel and Restaurant Management (Continued)

Lester John Mulder
Peter Michael Paglio
*Ronald Dean Ronat
Gail C. Rutherford
Thomas Steven Savage
Reginald Mark Seguirant, Jr.
William Gerard Small
Wendy Sundberg
Michael Jay Vander Plaats
James Veil
Albert Eugene White

Industrial Administration

Gary Lance Krentler
*Gary James Pond
James Carl Reed
Mark J. Weslock

Marketing

Edward Robert Basco
Richard Conrad Carlson

Tadeusz Jan Chrzan
Darwin E. Costello
David Eugene Graor
Bruce William Jenkins
*Peter Martin Lyon
Kay Diane Marion
*Thomas Arthur Mier
Gary W. Mize
Joseph Alex Musial
Timothy Brent Nyman
Barbara Willard Ridings
Marsha Jane Skutt
Nick James Valenti
John Clark VanConant
Joseph Emmet Young

Personnel Administration

Kenneth Robert Johnson
James Paul Keinath
Allan Daniel King
*Charles Eugene Kinnard
Jon Jeffery Ogawa
Wesley Albert Pietrala
Joseph Peter Robinson
*Sandra Lynn Veltman

Tourism

Wendy Ann Graves
*Carol S. Nelson

Transportation-Distribution

Kenith Oneal Alderson

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Business Education

*Elizabeth Kim Arens
Marcia Ann Stempien
Goodrich
Carole Sue Benson Husby

Distributive Education

Candice Ann Demarest

Economics

James Alexander Dowdell

* With Honor
** With High Honor

COLLEGE OF EDUCATION

KEITH GOLDHAMMER, DEAN

GRADUATED SUMMER TERM, 1973

Education

Bernard Eugene Abendshein
Julianne Ray Aikin
James D. Allen
Richard Doyle Allen
Joyce Zelda Alpern
Lynda B. Andersen
Larry Wayne Angus
Jane Helen Anthony
M. Jean Anthony
William Frederick Ast III
Bruce J. Averill
Lucinda Wakeman Ayres
Lyman Richards Baker
Bruce Austin Barber
Daniel Earl Barbrow
Susan Joan Barthold
Kathleen Fagan Bartley
G. Anne Schoonover Bead'le
Charles Henry Beady, Jr.
Kathleen Sallot Bell
Jacqueline Jean Bennett
Bernita Benson
Crane M. Biberstine
Tressa Ann Bielby
Gayle A. Bila
Mary Elizabeth Bird
Linda Lee Appel Bisby
Wesley Melvin Bitters
Susan Arlene Blazicek
Juanita R. Blodgett
John M. Blom
Marlyn Ann Blomquist
Kristine Marie Bohr
Benjamin Henry Bowald
Eleanor Jean Bowman
Mary Frances Boyce
Juanita M. Boyd
Hannah Renton Boylen
Catherine Jean Brace
Michael William Brieger
Basil Wayne Brooks
Angenora G. Brown
Emilia Rennie Brown
Janet Irene Brown
Nancy Louise Brown

R. T. Brown
Richard W. Brown
Rita Ann Brown
Susan Miller Brown
Galeon Duane Bryce
Muriel J. Buchin
Pamela Sue Bukala
John Emerson Bullock
Ellen Catherine Burns
Sylvia Whitmoyer Burns
Dirk A. Buth
Jane Phyllis Caine
Orhan Cakiroglu
Robert Bruce Cameron
Joanne Barbara Cardinal
Phillip Henry Carr
Diana Christina Carroll
Sally Elizabeth Casey
Robert Thomas Cavera
Effie Mae Cerny
Ronald Lee Chaffee
Florence Sarah Chamberlin
Linda Mary Clement
Deborah Diehl Clow
Kay Gwendolyn Coleman
Eileen Diane MacLaren
Collins
Phyllis Condie
Rosa Marcos Cordes
Ronald Melvin Cousino
Roslyn Joyce Covey
Charles Leroy Crissey
Sheryl Chastine Croom
Anita K. Culp
Donald Frederick Currey
Esther Marie Dalrymple
Nathalie Patricia Davis
Thomas Earl Dean
Roger Lee DeBoer
Ata Denge
Charles Kurt Dewhurst
Patricia Disbrow
Sister Rose M. Doerr
Kenneth John Dornbush
Charles Dean Doster
Lauren Lee Drake
Edward Stanley Drew

Joan M. Dreyer
Laurence Ronald Driscoll
Carolyn Mary Dubats
Patrick J. Duffy
Cleomae D. Dungy
Richard Lee Du Shane
Mary Larzelere Dygert
Reuben J. Early
Judith Ellen Edgeworth
Carolyn Edwards
Johnnie Ruth Tillery Eiland
James Duane Ellis
Erin Katherine Elto
Victorino Patagsil Espero
Norman Martin Evans
Betty D. Fay
Dorothea Pitts Fields
Rosanne Fifarek
Vincent Joseph Figas
Marie Claire Fischette
Sara M. Flanders
Richard Kenneth Fogle
Karyn Marie Ford
Helen K. Fortin
James Charles Fortin
Ross Lamar Fowler
Deborah Anne Franklin
John Frederick
Kathryn Braun Freud
James Edwin Fritz
Calvin Dean Fuller
Wilford Louis Gaffner
Jodie Mitchell Galdeen
James Gallagher
Rostica Luzod Gamet
Nancy Marie Gardner
Jacqueline Kay Garno
Virginia Elizabeth Gates
Mohammed Abdullah-Hajer
Ghamdi
William James Gietzen
Jewel Allison Gill
Richard Andrew Gnesda
Danforth Otto Goff
Diane R. Goff
David Francis Gole
Daniel Lee Goodwin

DEGREE OF
MASTER
OF ARTS

COLLEGE OF EDUCATION

Education (Continued)

Richard David Gordon
 Thomas E. Grabinski
 Glenn G. Grace
 Nan F. Graham
 M. Jane Grauer
 John Malcolm Graves
 Elisha Delbert Gray
 Anna Marie Grego
 Vivian Noble Grice
 Ronald L. Grody
 Duane Casey Guest
 Kemal Guliter
 Miriam Kay Gustafson
 Richard Oscar Emmanuel
 Hackbarth
 Jo Ann Cook Haggard
 Catherin Ann Hall
 Susan Kay Hammill
 Michael Branch Handlin
 Eric B. Hansen
 Steven Douglas Harbison
 Theodore Clemon Harris
 Thomas Allyn Hartwig
 Patricia Joan Hatch
 Mary Follett Hawn
 Darline Marie Hayes
 Jerrilyn Ann Hayes
 Trevor Heath
 Claudia Ann Heineman
 Joann Lou Helmbold
 Robert Edward Helmintoller
 Daniel L. Herman
 Francis Marion Hess
 William McKay Hieshetter
 James Patrick Higgins
 Elaine Mary High
 Clark William Hill, Jr.
 John Thomas Hiller
 Frederick Leonard Hinkley
 Ariel S. Hodgson
 Jane Katherine Holmes
 Teresa Joett Holmgren
 George Stephen Honer
 Ronald Lee Hosner
 Janet Irene Huffman
 Carolyn Ann Humphrey
 Jacklyn Connie Hurd
 Donna Jean Hurst
 Ernest Hans Jacoby
 Carole Adele Jenkins
 Karen Christine Jewell
 James Philip Johnson
 Jane Durham Susan Johnson
 Ora Johnson
 Pamela Denise Johnson
 Michael Scott Jolly
 Catherine Ellen Jones
 Darlene Ann Jones
 Maartje Traude Jongeling
 Damrong Kalumpakorn
 Rev. Basil Karpelenia
 Marion Loretta Kay
 Walter Thomas Kennedy
 James Edward Kerbel
 Joseph W. Kertesz, Jr.
 John Graham Kessel
 Durali Kilinc
 Jongoon Kim

Tatsutoshi Kiyomiya
 James Edward Klein
 Sinee C. Klinsrisook
 John William Klockow
 Sheldon LeRoy Knoespel
 Barbara Gilkey Koelsch
 Mary Kathleen Korney
 Sister David Therese Korson
 Sister Peter Mary Korson
 Nancy Lorene Kramer
 Susan Erica Kreider
 Randall Lyding Krug
 Timothy Lee Krug
 Penelope Lou Krutschewski
 Ronnie Harriet Kurchner
 Katherine Ritts Lake
 Janet Kay Lamley
 Mary Suzanne Lampel
 Jack L. Lampen
 Theresa W. Lancaster
 Raymond Roy Landis
 William Theadore Lang
 Jerry E. Lapish
 Velma De Vonne La Point
 Bonnie Jean Latshaw
 Jean-Marie Laugginger
 Ruth Virginia Lavigne
 Rodney J. Lewis
 Sharon Rona Lewis
 James F. Liebbe
 Judith Dean Liebman
 Carol Ann Ligett
 Susan Smith Lint
 Mary Anna Lintemuth
 Michael James Long
 Kathryn Estes Lower
 Merna L. Lowey
 Sandra Jeannine Luce
 Robert George Luchauer
 Robert Joseph Luebke
 Linda Charlene Luke
 Doris June Lundteigen
 Gunnar Lundteigen
 Kenneth Allen Manni
 Myrtie Odgers Manning
 Kathleen Bernadette Merkel
 Michael Tyrone Martin
 Joseph A. Mason
 Joan Carol May
 Jean Louise McClary
 Mary Ellen McDonald
 Robert James McDonell
 Marjorie Ann McDonough
 Harry J. McGrath
 Maree Grace McKenna
 Barbara Kaye McKenzie
 George Vernon McKim
 Lloyd George McPherson
 Dorine Jill Meister
 Kay Dubois Meredith
 Roger Dean Merillat
 Loretta Jean Metcalf
 Kenneth B. Meyer
 John Patrick Milan
 Michael Richard Miley
 Arnett Miller
 John William Miller
 Shirley Ann Miller
 Susan Thurow Miller
 Vodray Augustus Mills

Marilyn Hutchinson Mitchell
 Linda Dorothea Montgomery
 Richard Wallace Morand
 John O. Moyer
 John David Mutch
 Alta Gracia Myers
 Jan Allan Nagaj
 Willie Ed Neal, Jr.
 Tasnee Nillabrem
 Jean Ann Nilson
 Jerry F. Nolan
 Gordon Gale Norman
 Carol Pearl Osborne
 Sister Margaret Henry Oscar
 David Neil Ostrow
 Barbara Ann Otis
 Kathleen Mary Otton
 Glenda Rae Divine Palmer
 Priscilla Dian Palmer
 Barbara Ann Parker
 Marjorie Louise Parmenter
 James Michael Pavelka
 Richard Eugene Pawloski
 Diane Lynn Pederson
 David Case Peshke
 David Alan Peterson
 Leonard William Peterson
 Mary Joy Peterson
 Charles William Phillips
 Sirina Phisanbut
 Linda Maria Pidutti
 Steven Frank Politowski
 Patricia Jean Ponitz
 Marilyn Kay Pontius
 Thomas Francis Popiel
 Kathleen Sue Porter
 Constance J. Powers
 William Henry Powers
 Barbara Jill Presler
 Winton Edward Pugh
 Harry Evan Purdy
 Pamela Anne Quartermaine
 Janet Dixon Quast
 Lawrence James Race
 Kathryn W. Ralph
 Dorothy Rappel
 Nancy Lee Rawlins
 Mollie D. Reavis
 Terry T. Reed
 Avis Marie Reese
 Bonnie Gay Reicosky
 Suzanne Kay Rekittke
 Mary Ann Reuter
 Jack Elon Rice
 Suzanne Richards
 Gene W. Rietfors
 John M. Rinke
 Kathleen Rivard
 Pete R. Rivera, Jr.
 Marie Joyce Roberts
 Paul Victor Roetter
 Antoinette Maria Rollins
 Marilynne Hildegarde
 Rosenberg
 Allan R. Rosenthal
 Cynthia Suzan Rowe
 Roland Richard Roy
 Fred S. Rozell
 Beverley Ann Rubenstein
 Verlie Mae Ruffin

DEGREE OF
 MASTER
 OF ARTS

COLLEGE OF EDUCATION

	<i>Education (Continued)</i>	
	Clemente Carl Ruiz	Marjorie Springman
	Karen Fitzpatrick Ruschmeier	Linda Nanette Sprinkle
	Michael Kenneth Ryan	Gerald Kenneth Spry
	Patricia Ann Salka	Barbara Lynn Staniski
	Chester Earl Sanders	Cecilia E. Steel
	Geraldine Marie Sang	Patricia Greenwood Stein
	Tajuldin Mohammed Sawas	Barbara Ann Stephens
	Cornelia S. Schnarch	Donald Rey Stone
	Patricia Brothers Schroth	Kenneth Porter Stubblefield
	Jamie Lynn Schutt	Sue Ellen Sullivan
	Julianne René Searing	David Stephen Sutlick
	Larry C. Sebastian	Mary Margaret Swink
	Christine Larsen Shafer	Patricia Ann Taylor
	Joseph Richard Shaltry	Tsung-Yao Tien
	Dixie Ald Shamp	Robert Duane Tinney
	Charles Arthur Shelley, Jr.	Timothy Joseph Tobin
	Judy E. Shepard	Orville Wayne Tompkins
	William A. Shepard III	Susan Mary Tryc
DEGREE OF	Thomas Jacob Shick	Mehmet Tugan
MASTER	Esther Judith Weitzner	Ruth Helen Tuttle
OF ARTS	Shwedel	Tamera T. Tuttle
	Teresa M. Simon	Mary Catherine Tyrrell
	Margaret Marie Sims	Perra Gail Unger
	Donna E. Six	Carol Ann VandenBoogert
	Alice Marie Skeberdis	Jenniete Thiesia Vander Berg
	Ronald Lee Skorich	Linda Ann Van Woerkom
	Jean Sladkin	Arthur John Vathke
	Lane Karen Sloane	Lue Allie Venyah
	Carol Grace Smith	Antonio Vereb
	Douglas Rex Smith	Darell Wallace Vinton
	Gertrude Kloosterman Smith	Barbara Kintzing Visser
	Marie Ann Smith	Marion Florence Vosler
	Mary Marcella Smith	Pamela Spillane Vredevoogd
	Sylvia Charmaine Smith	Linda Sue Wagner
	Richard Charles Snoad	Karen M. Walkons
	Linda Louise Snyder	William John Walli
	Yanee Sornchai	David Glenn Walton
	Daniel Breece Spencer	Wynonia Cheri Ward
	Augustus General Spight	Mary Beth Warner
		Cecilia Antoine Warren
		Mary Elizabeth Warren
		Patricia Anne Watson
		Gwendolyn Delores Watts
		Ruth Farrell Ways
		James Davidson Webster
		Neal David Weemhoff
		Norman Bernard Weinberg
		Wilma Pauline Werstler
		David Bruce West
		Brenda Joyce White
		Marcia Jane Sheehan
		Whitehead
		Mary Louise Whitlock
		Joan Lorraine Wicks
		Nancy J. Wier
		Sharon Dianne Wiggins
		Gary Ronald Williams
		Audrey Eldene Wilson
		Delores Wilson
		Judith Lynn Wilson
		George W. Winchell
		Thelvius Tadueze Winieckie
		John E. Winn
		Charles Stuart Winters
		Helen Eileen Winters
		Raymond Waier Wirth
		Georganne Lillian Withey
		Michael Emery Witt
		Connie Haley Witttrup
		Karen Marie Woodson
		Gerald Clyde Woolston
		Barbara Kay Wrobel
		Gwen Karilyn Wyatt
		Mary Louise Wyniemko
		Irma R. Yacoub
		Paul Francis Yost
		Timothy L. Young
		Ronald Paul Zahn
		Theresa Barbara Zona
		Michael Joseph Zusack III

CANDIDATES — FALL TERM, 1973

	<i>Education</i>	
	Timothy R. Addison	A. B. Dalimonte
	Judith Ann Arthur	Robert Patrick Daly
	Lural Annice Baltimore	JoAnn F. Davis
	Marianne Elaine Baranski	Susan Lynne DeGraaf
	Jacqueline Ann Bogart	Paulo de Tarso Correia
	James Franklin Bourke	de Melo
	Ruth Mae Broderick	Larry De Santis
	Michael Arlen Marten Brown	Alma Lorraine Downie
	Roger Delaine Brown	Linda Lee Doyle
	Beatrice Eleanor Brune	Richard Norman Dugan
	Mary Katherine Butcher	Patricia S. Dunn
	Sandra Kaye Calhoun	Edward James Elliott
	Clarence Robert Carter	Sharon Rose Emrick
	Frances Ann Casey	Richard Anthony Farrer
	Dale Frederick Chapman	Robert Culver Frears
	Kathleen Sue Chuminatto	Tom A. Fullerton
	Barbara Lynn Clark	Elsa Louise Gekus
	Thomas Allen Coss	Mohammed Abdullah-Hajer
	Brother Charles Leo	Ghamdi
	Cote, C.S.C.	Samuel Cesar Gonzalez
		Daniel A. Grant
		Richard Earl Green, Jr.
		Lynn Joseph Hanisko
		Doris Elaine Harper
		Beata Estby Harris
		Estelle Ordella Holman
		Harris
		Eugene Henderson, Jr.
		Paulette Marie Hospenhal
		Cameron B. Howie
		Tippawan Indragajita
		Karen Susanne James
		David Johnson
		James Howard Johnson
		Duangchitt Kalumpakorn
		Donnie Karsh
		Louise Hisayo Kasanuki
		Susan Itoko Kaya
		Roberto Arturo Kihn
		Scott Fredrick Koenig
		Mark Eugene Kramer
		AminB. Ali Kukhun
		Margot E. Kurtz
		Gary Martin Larsen

COLLEGE OF EDUCATION

DEGREE OF MASTER OF ARTS

Education (Continued)

James Paul LeCureux
Harriet Ann Lewinter
Janice I. Lind
Michael William Little
David C. Ludema
Linda Chung-Fan Ma
Donald Byron MacDonald
Boyd Alyn Mackus
Justina Mitchell Matthews
James Marshall Meyerle
Rex Dale Miller
Elaine Marie Moehring
Pamela Jean Munroe
John Christopher Murphy
Jim Nooyimsai

Arlene Ann Oetman
Duane Joseph Pa-Jak
Olga G. Pascalenos
Christina Riddle
Frances Ann Roberts
Elfrieda S. Rose
Barbara Anne Sallee
Warren Ralph Scheibe
Barbara Jacob Scott
Janie Mae Shack
Catherine Zebadah Shelby
Audrey Ann Smigay
Susan Jane Smith
Mereta Ann Spitler
Robert Charles Steinman
Noavanit Suwanik
Ronald Milton Swift

Michael James Tanguay
Gerald Robert Tanner
Terrance Gerard Taylor
Jean Najdowski Teets
Gloria Jean Thompson
Marie Craig Turner
Margaret Reiner Vangeli
Joel Lee Van Roekel
Geraldine Burns Vaughns
Maria Ygnacia Vazquez
Mary Watson Wallace
Steven R. Warrington
Sharon Kiyomi White
Karl Edward Wilson
Nancy Barry Wotkins
Howard L. Wright
Pauline Mary Yonkey

DEGREE OF BACHELOR OF ARTS

Elementary Education

Michelle Sylvia Allen
Rozella Davis Amerson
Cynthia Elizabeth Anderson
H* Sharon Marie Anderson
William Joseph Anuszkiewicz
* Nancy J. Aquadro
Pamela Louise Arnholt
Kathryn Ann Aulbach
* Marguerite Ann Badamo
* Elizabeth Ann Berry
* Patricia Helen Bilek
* Sharon Kay Bimer
* Emily R. Blicharz
Carolyn Quincy Brice
Cheryn Lou Briggs
* Jackie Lynn Brower
Constance Elizabeth Brown
* Julie Ann Buchholz
Jeanne Marie Burns
Ronald John Cardinal
Charletta L. Caver
Gerald Frank Chabica
* Judy Ann Clark
Janet Sue Compton
* Susan Jane Davenport
Laura Lynn DeAlteris
* Mitzi Marie Deighton
* Suzanne Marie Ducharme
William Evans
Winifred Vanessa Evans
Lawrence Alan Fatt
Anne Caroline Fischer
Patricia Anne Fischley
Julie Sandra Fortgang
* Margaret Dae Frank
* Susan Nora Freilich
Charise Lynn Fulton
* Lynell Marrie Gauger
* Kris Markel Gerish
Toni Jean Goriesky
Margaret Ellen Hahn
* Julie Beth Hall
Sheryl A. Harris
Sandra Marajen Haskins

Joyce Lynn Hemingway
Patricia A. Hoezee
* Jo Ellen Hoffman
Carolyn L. Hoggs
Janet Clark Holland
* Nancy Ann Howarth
* Jean Marie Hubbell
Nancy Jenkins
Nicole Catherine Joyaux
* Mary Sue Kanous
* Mary Ida Karns
Kathleen Ann King
Rachel K. Kinsley
* Therese Lynn Koehler
Bruce Lawrence Koontz
H* Christine Elizabeth Kump
Rosemarie Kay Larson
H* Wendy Lee Lashorn
* Kathleen Gail Laughter
Daryl Jan Lindell
* Joyce Ann Love
* Linda Dianne Lowry
Debra Jean Lycos
Robert Paul Marski
* Cheryl Ruth Martin
Clara M. Martin
Karen Jeannette McCardel
* Judy Perry McLane
* Robert Raymond Michalski
Susan Ilene Michelson
H* Bonnie Lou Miller
Janet Ann Miller
* Mae Helen Miller
Daphnia Marie Missad
Susan Jane Morey
Sharon Elizabeth Morgan
* Kathy Mrozowsky
* Cynthia Lynn Muir
* Patricia Rosamond Mulanix
* Betty Ann Nichols
* Gerald Frederick Nickel
* Sharon Marie Noll
Diane Lee Novak
Lucinda Ann Noyakoski
* Linda S. Orosz

Carol Ann Pasant
* Rebecca Susan Pobocik
Carolyn Ann Pope
Gordon William Powers
Nancy Marie Powors
Plas Andrew Presnell
* Mary Suzette Prevost
* Merrie Pat Pribbanow
* Celia M. Rathbun
* Patricia Jane Reeves
Maria M. Rinna
* Jill S. Rivard
Mary Kathleen Roach
* Nancy Lynn Root
* Judith Kay Ruch
Patricia Marion Russell
Janice Ilene Schimnoski
* Terrell Mae Schuiling
* Vince Ray Scott
Sandra Marie Seeburger
* Melinda Sue Sharp
Eleanore Lacelle Sharpe
§ Connie Kathleen Shaw
* Geraldine Shepard
* Jane Whiting Sheppard
* Carolyn Ann Shorkey
* Michele Darlene Slack
* Beverly Jan Smith
Kenneth William Tarrant
Roberta Lois Templeton
* Judith A. Terbrack
Erma Marcia Thaxton
Denise Marie Thomas
Rose Mary Tolbert
* Joseph Edward Tortoriello
* Richard John Witold Trzaska
* Stephan Craig Turner
* Barbara Jeanne VanOs
* Kay Ellen Volz
Gregory Dean Weatherspoon
* Elwanda Wigginton
Rebecca Lynn Zurbrick
Young
Mary Lou Zamora
Nancy Ann Zeissner
* Joyce Lynn Ziegler

H Honors College
* With Honor
** With High Honor
§ Posthumously

COLLEGE OF EDUCATION

DEGREE OF BACHELOR OF SCIENCE

Health, Physical Education and Recreation

Nancy Jane Atkinson
Dorothy Louise Bowden
Michel A. Chaurest
Joel William Cooper
Brian Kenneth Iseler

Paul F. Knoll
Mark Alan Maxwell
Jacqueline Jacqwillia Minor
*Sara J. Morris
Lewis Eugene Pavlik
Douglas Allen Phelps
H**Judith Kaye Spraggs

**Kay Ann Stanek
Dana Lynn Stoll
Maureen Ann Straebel

Industrial Arts

Erick Christopher Gottschalk
Donald Clarence Meissner

COLLEGE OF COMMUNICATION ARTS

HERBERT J. OYER, DEAN

GRADUATED SUMMER TERM, 1973

DEGREE OF
MASTER
OF ARTS

Advertising

Elizabeth Kornel Darago
Duane Edward Dub
Marilyn Sara Goldman
Hugh Everett Hufnagel
F. Michael Koch
Russell Stuart Rowe
Susan Lee Schaffer
James Arlan Thorpe

Audiology and Speech Sciences

Lynne Garon Berman
Tina Marie Brieske
Brenda Jean Butler
Li-Rong Lilly Cheng
Alyce Kathryn Deering
Jacob DeGraaf
Molly M. Dojka
Marilyn Rae Filonow
Phyllis L. Flowers
Gail T. Ginsburg

Lori Ellen Goldberg
Carol Lynn Guillaume
Patricia Marie Hughes
Nancy Carol Kurth
Pamela Ann Lang
William James McIlquham
Nancy Helene Berinsky
Morgenstern
Nancy Ann Low Mosher
Patricia Pee Olson
June Kathleen Oster
Barbara Ann Pikscher
Susan A. Schultz
Betty Garner Sherman
Christine K. VanPatten
Kathleen Ann
VanRavenswaay

Communication

Marc Thomas Dedenbach
James William Hesse
Josephine R. Johnston
J. Janelle Shubert

Takahashi Tsuneyasu
Charles Taylor Woods

Journalism

John Alfred Kaufman III
Ilia Milagros Laborde
William W. Lutz
Robert Joseph Truscello

Television and Radio

Thomas John Bennett
Donald W. Bishop
Robert Marshall Burke
Diane Kathleen Hickey
Darryl Howard Kuhnle
Alfred Harold Lehmann
Donnell Moorer
James R. Respress
Michael Thomas Rodgers
Stanley Joseph Staniski, Jr.
Robert Edward Walker II
Thomas Edward Wisniewski

CANDIDATES — FALL TERM, 1973

DEGREE OF
MASTER
OF ARTS

Advertising

John Charles Burke
Gerald Francis King
Lyssa Lawrence Newhall
Nancy Lois Tschirhart
Lois Anne Yeagley
Dan Henry Zimmerman

Audiology and Speech Sciences

Jacqueline Ann Jones
Jean Eileen Maki

Nancy Jane Orlandoni
Janet Elaine Steffes

Communication

David Charles Bender
Elena Antoinette Cappella
Joanne Frances Conklin
Dolores Purdum Goeke
Gary Robert Heald
James Henry Nyenhuis
Richard Raymond Reagan

Darel D. Reed
Gary Wallace Selnow

Journalism

Samuel Stewart Wetmore

Television and Radio

William Albert Anderson
Kevin James Brady
Jan Marchetia Johnson
Robert Alan Protzman

COLLEGE OF COMMUNICATION ARTS

DEGREE OF BACHELOR OF ARTS

Advertising

- Kirk Elwyn Babcock
H* *Maureen Elena Beninson
Paul Henry Butzler
*Jacalyn Ann Cunio
Robert Mitchell Foote, Jr.
H* *John Michael Greening
Kathleen Ann Griffin
John Jay Linsey
Nancy Ann Lumsden
Jane Anne Lunkas
David Michael Marsh
Robert Ray Martin
Gary Alan Meek
Donald Earl Perry
James Robinson
Susan Kay Schalon
Charles Lee Smith
*Joyce Carolyn Smith
*Janet Ann Thomas
Robert Alan Vondale
Mark Anthony V'Soske

Audiology and

Speech Sciences

- **Arlene Etta Greene
**Laura Thea Laster
Beverly Sue Pettit
Betty Jean Riddle

Communication

- Kim Robert Grice
John Charles Heredia
Dennis Michael Hutting
Stephen Robert Laffer
Lee Darryl Lockwood

Journalism

- *Janice Beth Binkert
Madelyn Marie Bridget
Deborah Ann Calkins
Stephen Giegerich
Randall Robert Gillett
Sharon Anne Hanks
Alexander A. Hoag
**Joseph D. Riccio, Jr.
Eugenia Zerbinos Smith
*Thomas R. Standley
Joseph Ford White

Television and Radio

- Norris Holland Barr
Arthur Francis Bell
Catherine Marie Carpenter
David Pitcher Emmett
Susan Kay Johnson
William Arthur Madalin, Jr.
James Robert Maggio
*Michael Gary McIntire
Cheryl Lynn Mitz
Michael Craig Moody

Robert Norman Nocera

- Susie May Nutter
Daniel Joseph Olivett
Brian Joseph O'Malley
Catherine Paup
Glenn Edward Pelkey
George Wayne Piggush
*James Arthur Sharkey
Ronald Alan Surgeson
**William George Toperzer
**Randall Lee VanDalsen
Edward Adam Wasek
Ilene Gabrielle Weinberger
Jamison Wharton-Bickley

Theatre

- Trudy Lynette Bean

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Audiology and

Speech Sciences

- Patricia Suzanne Molnar
*Sandra Beth Pasmanter

Communication

- **Sandra K. Guernsey
Crystyl Arnita Rucker

COLLEGE OF ARTS AND LETTERS

RICHARD E. SULLIVAN, DEAN

GRADUATED SUMMER TERM, 1973

DEGREE OF MASTER OF ARTS

Art Education

Sharyn Austin
Aveys C. Holmes Baldwin
Frances Carol Dittrich
Joanne Boxell Evans

Art History

Virginia Maloof Cascarilla
Tobey Ellen Rosenzweig

English

Danny Lee Bell
Jeffrey M. Gamso
John Michael Houghton
William Richard Knox
Patricia Ann Mathis
Dixie Pearsall Olmstead
Jacqueline Elizabeth Orsagh
Paul R. Smyth
Sharon K. Thomas
Thomas Edward Wisniewski
Frederick Paul Zirm

English - Secondary School

Teaching

Thomas Emmet Carstensen
Sara Culver Elgammal
Elaine Shane Flore
Andrea Donahue Hagedon
Miriam Carol Skurnick
Dawn Anema Vanderveen
Christopher Stephen Walczak

French

James Robert Keating
Irene Reinderdina Konyndyk
Sharon Lee Shaffer

German

Susan Jane Dickinson

History

Howard Lynn Crowder
Ronald William Edsforth
Richard Ormand Flynn
Heinz H. Harke
Theodore Lubowsky
William Joseph Murphy

Michael William O'Hern
Gregory Zane Schroeder
Carol Anne Shannon
Douglas Starr Taylor

History - Secondary School

Teaching

Bernie William Wagers

Linguistics

Marilou Peterson Ell
Gerda Frank
Anuradha Anil Hingwe
Lorna Jean Wilson

Philosophy

R. Dean Bishop
David Alvin Peters
Eric Ledell Smith

Theatre

Sherry Jeanne Caldwell
Charles Steven Spencer
G. Les Washington

DEGREE OF MASTER OF FINE ARTS

Art Practice

Judy Jashinsky Finfer
William Courtney Strudwick

Theatre

Earl Gordon Stringer

DEGREE OF MASTER OF MUSIC

Applied Music

Mary Louise Black
Judith Lee Connelly
Allen Lyle Dilley
James Albert Fischer
Fairya Louie Mellado
Dennis Quentin Nygren

Music Composition

Sharon Marie Johnson
Michael Lewis Lorenz
Jeffrey Lynn Prater

Music Education

Barbara Ruth Damasevitz
Frank K. DeWald, Jr.
Harold Norman Fisher
Barbara-Ann Harfosh
Richard J. Landman
John Arthur Lower
Richard Charles Sang
David Henry Schripsema

COLLEGE OF ARTS AND LETTERS

CANDIDATES — FALL TERM, 1973

DEGREE OF MASTER OF ARTS	<u>Art History</u> Elizabeth Lathrop Anderson John Patrick Forbes Donna Ticchi Herlehy Lily La Lee	<u>English - Secondary</u> <u>School Teaching</u> Frances Stott Howe <u>French</u> Kathleen Mary Harris Diana Phelps Heitman <u>German</u> Barbara Usas Riley Waltraud J. Wieland <u>History</u> Donald Eugene Loranger, Jr. Richard Jules Oestreicher Sheryl Christine Seymour Walter Jon Whitman	<u>Linguistics</u> Donald George Churma Meiko Inouye Lily Lih-Lih Wang <u>Musicology</u> Stuart Jay Ouwinga <u>Philosophy</u> Jorg Baumgartner James Louis Campana Ahmed M. El-Har Alan James McBeth Leslie Joseph Mezei <u>Spanish</u> Virginia Lynn Beetham <u>Theatre</u> David Leo Stenzel, Jr.
	<u>English</u> Joanne Mary Devine Edris Beryl Dickerson Drew H. Fishburn Joyce Faye Haner John Taylor Juel Joyce Redding Karosi Oren Samuel Lloyd Sharan Hill Newman Quentin Charles Reader <u>English - Community</u> <u>College Teaching</u> Mae Frances Stubbs		
	<u>Art Practice</u> John Robert Konopa Bovornsakoi Krisadaphong		
	<u>Applied Music</u> Cora E. Enman	<u>Music Education</u> Natalie Candace Light	<u>Music Theory</u> MariaTeresa Miller
DEGREE OF BACHELOR OF ARTS	<u>American Studies</u> **Carolyn Robertson Urick <u>Art History</u> Pamela Ann Bond Ruth Ann Peebles Karen Ann Serota <u>Art Practice</u> *Marilyn Lee Hulce *Bonnie Lee Marris James Gerard Phillips <u>English</u> Anthony Michael Abruzzo Shelly Rae Adair Diane C. Brandt Gloria Jean Crockett Cissie Patricia Falligant Dorothy Elizabeth Glasson	*Suzette Elaine Hilton Clifford A. Kasmier *Phyllis Eyer Keon H* Jon R. King William Alexander McGehee Lawrence Mark McKenna Cynthia Turchetti Alan Andrew Zachwieja Janice Marie Zerfas <u>French</u> Elizabeth Burrows Huntington *Linda Lee Jackson <u>History</u> Pamela Denise Boynton Elam L. X. Brown *Richard Alan Conroy Roy Russell Dougherty H* Marilyn Brady Mikasko	Thomas P. Nicoll Merton Richard Pettit James Edward Phillipich Stuart Lee Selis Susan Withee Vincent <u>Humanities</u> **Anthony Belmont Beal David Charles Beglinger Robert Joseph Hermann, Jr. Rae Jensen Hubbard *Jeanne Anne Weaver Michael R. White <u>Humanities - Prelaw</u> *Karen Rae Gardner Douglas McPherson Stephen Perry Powell Rosendo C. Reyes *Bruce Rudolph Wahlen

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** With High Honor

COLLEGE OF ARTS AND LETTERS

DEGREE OF BACHELOR OF ARTS	<u>Philosophy</u> Frank Collias Jacqueline Noela Edwards Susan Rutledge Nash	DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION	H**Ingeborg Maria Hale **Lois Lorraine Stonehouse Robert Edward Wylie
	<u>Religious Studies</u> H**Julianne Mary Smendzuik	<u>Art Practice</u> Peggy Lee Conley Susann Lynn Cook Robert Charles Cullen Donna Jo Favreau Kathryn Jean Kinney Nancy Elizabeth McDonald Mary Helen Peelle	<u>German</u> *Elizabeth Kim Arens
	<u>Spanish</u> H*David Clare Bellville Ramiro Daza H**Suzanne Hoenshell	<u>English</u> Dorothy Ann Davis Gary Eugene Edgette *Margaret Rose George *Anne Marie Giardina	<u>History</u> Janice Marie Brown Robert Michael Bufe *Douglas Wayne Carl *Dan Edward Gould Michael John Rutkowski
	<u>Theatre</u> Trudy Lynette Bean **Gerald L. Blanchard Kathleen Ann Dailey Juanita Regino Suarez		<u>Theatre</u> James Thomas Allen Maureen Therese McElheron
DEGREE OF BACHELOR OF FINE ARTS			DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION
	<u>Art Practice</u> Colleen D. Berns Sally Elizabeth Chapman *Barbara Drusilla Gudgeon *Kyle Ann Kohler Michael McClain *Bernard Hugh McPeck	**Dona Faith Meltzer *Lanene Marie Smith *Sara Marie Spelman Mary Ellis Storrer *Jane Marie Underhill *Daniel John Wykes	<u>Art Practice</u> *Janet Lynne Brown Linda Marie Copland *Jacquelyn Marie Rougeau Elliott *Barbara Anders Ford H**Karen Lee Ludwig *Dawn Marie McBrien Douglas Earl Wilson
DEGREE OF BACHELOR OF MUSIC	<u>Applied Music</u> H**Catherine Britton	DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION	Ronald Fane *Roger Alan MacNaughton
	<u>Music Therapy</u> Thelma Clintina Hankerson Lenore Kay Harriman Marie Elana MacCord Joan Marie Sarrazin Mary Beth Welsh	<u>School Music</u> *Deborah Lee Artis Sandra Lynn Doughy	<u>School Music and Music Therapy</u> Charles Emerson Whiting, Jr.

H Honors College
* With Honor
** With High Honor

COLLEGE OF NATURAL SCIENCE

RICHARD U. BYERRUM, DEAN

GRADUATED SUMMER TERM, 1973

DEGREE OF
MASTER
OF ARTS

Mathematics

Gary L. Snyder

DEGREE OF
MASTER
OF ARTS
FOR TEACHERS

Biological Sciences

Robert John Franz
John Robert Moore
Mildred Jane Plamondon
Matthew J. Spence
Linda Lee Stupfel
Paul Douglas Woolley

General Science

Thomas Paul Feuerstein
Ronald Ellis Kemp

Planetarium Education

Charles Justice Percival II

DEGREE OF
MASTER
OF SCIENCE

Biological Sciences

George Alan Campbell
Stephen Lee Canipe
Gregory S. Collins
Sister M. Angelo Collins CSA
Frank V. Duncan, Jr.
William Andrew Grake
Eleanor Irene Helgert
Timothy William Holcomb
Richard John Langham
Sister Theresa Mary Mayrand
Frances von Schneidau Mino
Anne Marie Mundy
Martin Philip Roberts
John Clyde Schimmel
Kenneth Lee Schultz
Walter Lee Shriver
Edward Thomas Stern
William J. Utley
Philip Hugh Winston

Botany

James Alan Reiffer

Chemistry

Elizabeth Irene Pupko
William David Watson

Entomology

John Alfred Jackman

Geology

Nancy Alyanak
Thrasos Eftaxiadis
Jerry K. Onofryton
Michael Patrick Ryan
Ted Lee Swearingen, Sr.

Physics

Jean Anne Guile
Wan-Yok Wanitarsianz Hioe
Robert Wayland Matson
John Robert Pond
Ramon Ramos
Noel Adair Walker

Statistics

Gary Lyn Dilloway

Zoology

Donald Paul Christian
Mary Evans Lehnert
Roger W. Mustalish

COLLEGE OF NATURAL SCIENCE

CANDIDATES — FALL TERM, 1973

DEGREE OF
MASTER
OF SCIENCE

Biophysics

Theodore Edward Miller

Botany

Marina Inn Chiang
Peter Jonathan Felker
Karen Lee Klomparens

Chemistry

Bing Lun Lam
Michael Kenneth May

Entomology

Thomas Anthony Bowling
Clarence H. Collison
E. Richard Hoebeke
Daniel Keith Young

Geology

Kim Kathleen Ryan

Mathematics

Allen Jay Beadle
Daniel Howard DeCelles, Jr.

Microbiology

John Joseph Frederick
Robert Marion Soltysiak

Physics

Paul D. Brindza
Jerry J. Metters
Paul Alexander Smith

Physiology

Ann Haviland Collingsworth
Lindsey James Grandison
David William Samanen

Statistics

Kin Keung Lai

Zoology

Richard Dean McArthur

DEGREE OF
BACHELOR
OF ARTS

Mathematics

Suzanne Marie Jennings

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Mathematics

H* Elisabeth Ann Buchheister
James Edward Vidro

DEGREE OF
BACHELOR
OF SCIENCE

Astrophysics

H** Thomas Donn Gottschalk
H* John Randolph Meyer

Biochemistry

H** Karen Ruth Cordry

Biological Sciences

* Robert Jerome Brummel
Edward William Cole III
* Barbara Rose Fishel
Bernard F. Himmelsbach
Catherine Anne Kasten
Edward Kenneth Litwin
* John E. Nemmers
* Wayne Richard Pope
* Melville James Scobie
Thomas Aaron Wallace
Thomas Ring-Teh Yen

Botany

Gary Milton Foster

Chemistry

* Paul H. Zoutendam

Geology

Bruce Roger Bloom
Kenneth Lee Brewster
Vivian Kay Bust

H Honors College
* With Honor
** With High Honor

Michael Thomas Peters
John Kantz Preston
Geoffrey F. Prior

Mathematics

Anthony Benedict Cosola II
Mark William Holmes
H* Cynthia Marie Johnson
* Patricia Ellen Lauver
Robert James Morton
H* Bruce Edward O'Neill

Microbiology

* Daniel Joseph Rogers

Nursing

Janet Tecla Brown
Rose Kostenk Lebbon
* Carol Ann Kindermann Lyon
Kathleen Sue Smith

Physical Science

Leon Albert Nash
James Frank Pass

Physics

H** Peter Walden Rathmann

Physiology

* Michael Eugene Izdebski

Zoology

Robert Campbell Adkins
David Vinton Anderson
Dawn Christine Ankli
* David A. Breazeale
Robert Dale Churchill
Ramiro Daza
* Olan Charles Dombroske
Eleanor Kay Harmon
Steven H. Magness
Gary William Ozanich
* Paul Dennis Radecki
* Robert John Robbins
Ernest Donald Speck
* Patrick Michael Sweeney
* George Henry Van Dam
* Vicki Lynn Zidell

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Biological Sciences

* Carol Lynn Van Pelt

Earth Science

Richard Scott Edelen

Mathematics

Lena Helen Chandochin
Patrick Lincoln Maynard

COLLEGE OF SOCIAL SCIENCE

CLARENCE L. WINDER, DEAN

GRADUATED SUMMER TERM, 1973

DEGREE OF
MASTER
OF ARTS

Anthropology

Jeffrey Paul Tordoff

Geography

Sr. Susanne McDonald
Michael David Nutter

Psychology

Charles Hawkins Brown
Charlene Mary Callahan

Lesley Dargin
Vincent Joseph Hoffman
Josephine Pottinger
Patricia Eileen Thompson

Social Science

Jacquelyn De Young
Larry James Ford
Donald Edward Hieftje

Deborah Jean Mackson
Jacquelynn Gladys Williams
Rhodes

Sociology

Marietta Morrissey Gamso
Astair Gebremarim
Sangchul Kang
Phillip Anthony Salopek

DEGREE OF
MASTER
OF ARTS
FOR TEACHERS

Geography

Fred Link

DEGREE OF
MASTER OF
LABOR AND
INDUSTRIAL
RELATIONS

Jeffrey Alan Brandwine
David John Cichelli
Leon Cukierman
Alfred Brooks Darling
Robert J. Glees
Ronald Lee Columbeck
Patrick John Hunt

John Paul Koehler
James Benjamin Lawrence
Daniel Jay Norton
Timothy Stocker Null
Charles C. Parke
James Michael Pruett
Stephen Roderick Robertson

David B. Stein
Richard Howard Stern
Ronald James Symkowiak
M. Kent Taylor
Victor Emmett
Van Audenhove
Chrys Warren Zaglifa

COLLEGE OF SOCIAL SCIENCE

DEGREE OF MASTER OF SCIENCE	<u><i>Criminal Justice</i></u>	Richard William Ives	Robert Charles Spratt
	Jay Stuart Berman	Richard John Prato	David Lawrence Steeno
	Elizabeth Louise Bruhn	David Bruce Reed III	Gene Miller Tate
	William H. Dunman, Jr.	Griffin Harold Rivers	William Roger Waldrop
	Hassan Abdel Rahman	J. Richard Snetter	Robert Edward Weltzer, Jr.
	Elnabtity	Sydell M. Spinner	

DEGREE OF MASTER OF SOCIAL WORK	David Lee Jinkins	Lula Tassin King	René Antoine Treves
---------------------------------------	-------------------	------------------	---------------------

DEGREE OF MASTER IN URBAN PLANNING	William Allen Brehm, Jr. Don Lee Craig James Phillip Fleischmann	Charles Edmund Haubenstricker Chaval Lochaya	James Alan Ragsdale Philip Hampton Wheeler
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CANDIDATES — FALL TERM, 1973

DEGREE OF MASTER OF ARTS	<u><i>Anthropology</i></u>	<u><i>Political Science</i></u>	Thomas Lee Kodera
	Marsha Ann Bates	John W. Anderson	Genice Loretta Rhodes
	Janet Gail Brashler		David Morris Schnarch
	<u><i>Geography</i></u>	<u><i>Psychology</i></u>	<u><i>Social Science</i></u>
	Mohammed Hussein Al-Fiar	Bette Bedden	John Kenneth Belaski
	Luis Eduardo Aragón Vaca	Melvin Randolph Berg	Larry Lynn Foster
	William Roger Buckler	Freida A. Brown	Lorna L. Holcomb
	Robert Emery Dickson	John Edward Budnik	Dulce Maria Jiménez-Abreu
	Ru-Haw Lay	David William Carroll	
	Arthur Avery Totten	Michael Sean Denny	<u><i>Sociology</i></u>
	David Vozka	Carol Jean Ducat	Michael Peter Nagy
		Fred Fallik	Pamela Jane Schwingl
		William Henry	Diane Ellen Seagreaves
		Greenwood III	Clark Eldridge White
		Stuart Oliver Hallgren	

DEGREE OF MASTER OF LABOR AND INDUSTRIAL RELATIONS	Phillip Lynn Bruneel	David Allan Palkovich
	Gregory Dela Cruz	John Patrick Polidori
	Linda Marie Farina	Steven James Pollok
	David Robert Fletcher	James Robert Schutz
	Michael Francis Laurence	Robert Carle Thiesing
	Marc David Lemmerman	Gary Lee Van Eerden
	Kristine Ann Lindholm	

DEGREE OF MASTER OF SCIENCE	<u><i>Criminal Justice</i></u>	Thomas Ray Harmon
	Jerome Gaylord Boles II	James Alan Keyes
	Peter James Burns	Edward C. Patillo
	John H. Cease	Kathleen Susan Raab
		Thomas A. Rossman

COLLEGE OF SOCIAL SCIENCE

DEGREE OF MASTER OF SOCIAL WORK

C. Janis Bocksay

DEGREE OF MASTER IN URBAN PLANNING

Mark Daniel Alpers
Thomas Louis Hansen, Jr.

Edward R. Stevens
Gloria Gayle Woodard

Anthropology

James Otto Gower
*James Martin Stefanick

Geography

H*William Patrick Craft
James Bowne Scofield

Political Science

Benjamin F. Blake
*Rob Eppert
Michael Charles Fildey
Robert Pastor Gomez
H*David Lynn Gray
Richard Henry Haines
Philip Theodore Hirsch
Colleen Mary House
David Michael Jordan
Kaye Benjamin Martin, Jr.
Eric Marx Matteo
John Alan Moser
Michael Thomas Neiss
*Charles Anthony Nicholson
William Carl Olsen
Maxie Lynn Patterson
E. Sonja Sullivan
Colleen Ann Weirauch

DEGREE OF BACHELOR OF ARTS

Psychology

Louis Henry Bantom, Jr.
*Russell Charles Benson
Heidi Jean Bon
Veronica LaJean Carter
Yvonne Simmons Carter
*Joan Marie DiGregorio
Gilberto Dominguez
*Florence Faye Firnhaber
Raymond Allen Hall
*Larry Steven Hauser
James Michael Hoban
*Linda Louise Hungerford
Karen L. Kaems
*Jeffrey Alan Kaylor
*Margaret Ann Kirtland
H*Karen Esther Klefstad
Kim Alane McCormick
Janell Patrice McDuffie

H Honors College
* With Honor
** With High Honor

Bonnie J. Murray
Yvonne Norman
Charles Douglas Ogar
*Randall Lee Seaver
Philip Alan Shannon
Alan Francis Sniadecki
Brent L. Steiner
Deborah Kay Stentz
*Claude William Tournay
*Michael L. Ward
*Douglas Charles Weld
*Patricia Rae Witczak
Lawrence Joseph Zimmerman

Social Science

Stephen Marshall Bond
Addie Kathleen Burroughs
Stanley Robert Bush
Shirley Ann Campbell
*Larry Richard Chapman
Michael Allen Corbin
Yvonne Criss
Sam Lee Davis
Patricia May Delbeke
Kenneth VanNorman
Ferguson
Grover Lastron George
Bruce Howard Harmsen
David Alan Holforty
Gregory Allen Johnstone
Kris Albert KeyDel
*Carole Marie Lockett
Allen William Maki
Timothy Elis McDaniel
Charles Edward McMilan
Kris Lyndon Mills
Carol Lynn Morey
Robert Edward Niksa
Rodney Lane Peterson
Michael Thomas Piper
Barbara Lou Schurman
Jack Russell Schwab
Sue Ann Sensiba
*James Mason Spillane
Mark Lester Stevens
*Rebecca Anne Stuk
Douglas Lee Thalman
H*Larry Paul Thelen
Harold Timberlake II

*Julie Kay West
Eugene Edward Whiteley
Charles E. Woodruff, Jr.
William Craig Zylstra

Social Work

Charmaine Marie Augustine
Linda Mary Benko
*Carol Elaine Borst
Audrey Marie Campbell
*Margaret Tobi Haberer
*Karen May Harris
Ann Marie Holman
*Kathryn Dorothy Kopasz
Ann Marie Leach
*Lizbeth Lynn Leeson
*Jane Ann Lyons
Kathy Jane McGee
Marsha Lynn Price
Mary Susan Roggelin
Cheryl Durfee Scott
Teresa Dorothy Taylor
Marilyn Louise Van Tassel
Cynthia Kathryn Waite
Deborah Renee Walls

Sociology

Clinton Fort
H*James George Gross
Emma Diane Hill
Richard Thomas Kuszmar
Pamela Joan Miller
*Sylvia Jo Waddell
Dennis L. Yashinsky

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Social Science

Barbara Jean Currie
Robert Scott DuBois
Edward Bert Dutcher
Ronald John Fink
Elaine Marie Herbert
Jeanne Ann Munn
Jane Elizabeth O'Sullivan
Loni Jane Smith

COLLEGE OF SOCIAL SCIENCE

DEGREE OF BACHELOR OF SCIENCE

Anthropology

Barbara J. Turner

Criminal Justice

- Michael Lockwood Adams
Kenneth James Baker
*Lawrence Edward Baran
Fred Lewis Barbrick
*David William Beech
Michael Stephen Bilski
Dennis Lee Bolling
Martin James Bosch
John William Broughton
*Keith Irving Chandler
Patricia Linda Douglas
James Christopher Exarhos
Donald John Falconer
Gary Mark Ginther
John Frank Harry
*Thomas J. Hendricks
*William Foster Jones
Charles Arthur Judson
*Marilyn Joan Kuhn
*Barbara J. Lohr
Mark Alan Leslie
*Ronald Dimon Lyon
*Linda Jane Macuga
*Robert William Miller
Donald Jay O'Farrell
Scott Lee Pavlich
Roger Emilio Ramirez
James Lee Rosema
Dennis Ray Saari
H* Linda Susan Saoud
David Jon Schipper
Gail Marie Schultz
Ann Adele Seyler
Joy Lynn Smith
Terry Michael Tatro
*Patricia Ann Tintera
Martin John Underhill, Jr.
Mark Alan Vincent
Charles Jay Wapner
David Arthur Watson
*Nancy Lee Williams
Matthew Francis Winger
*David Alan Zomer

Geography

John Frederick Ferency
Timothy John McMann
Glen Adrian Walls

Landscape Architecture

Robert Steven Petko

Psychology

- Michael Duane Babcock
Miguel Angel Berrios
John J. Beukema
H* Janice Ruth Breckenridge
Vicki Lynn Campbell
*Janet Louise Corneail
*Karen Ann Crittenden
*Jeff D. Crosthwaite
John Andrew Davis
Mickey Singer Davis
Johanne Sue Etkin
Denise C. Filer
Don Carl Fitzsimons
Kenneth Gellerman
Janet L. Johnson
Charles Clare Knickerbocker
*Marianne Kramarz
David Ronald Kuhn
Richard Vance Lee
Edward Charles Lublow
Archie Lee Mac Gillivray
Douglas K. Martin
James Andrew McKenzie
Terralynn McNa
Sharon Elizabeth Meng
H* Jeffrey Drew Miller
*David James Mokler
*Rita J. Mousseau
*Joel Lawrence Pelavin
Michael James Peters
H* Donald Sherman Reynolds
Edward Wayne Reynolds
Robert Sigmund Rostek
*Nancy Ann Skoll
H* Lynn Ann Snellman
Kathleen Elizabeth Stewart
Thomas Douglas Sutberry

*Robert Stephen Thornton

- H* Felicia Maxine Williams
Irving M. Williams
Roger John Wilson
Stephen Craig Wright

Social Science

Jay Scott Becker
Karen Lee Dziegeleski
Gene H. Fanslau
Charles William Fitch
Jeffrey Lloyd Hamm
Christina Ann Hodge
Frederic George Hulce
Philip Henry Levin, Jr.
Anne MacDonald Korth
Joseph Paul Mathews, Jr.
David DeVere Miller
Elliott Thomas Moore
Glenn Alan Paraskevin
Richard John Park, Jr.
James Kent Richardson
Vernon Leon Shadd
Keith Lynn Shafer
Stephen David Tibai
Robert Gene Vaughan
Susan Annette Winnicker

Sociology

- Bruce Kirby Alexander
Laura Katherine Fortino
*Lola Jean Kozak

Urban Planning

Thomas Martin Beverly

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Social Science

Charles David Lawson
William Richard Palmiter

COLLEGE OF HUMAN MEDICINE

ANDREW D. HUNT, JR., DEAN

GRADUATED SUMMER TERM, 1973

DEGREE OF
MASTER
OF SCIENCE

Clinical Laboratory Science

Lillian W. Abadeer
George Leslie Vandulek

Microbiology and

Public Health
Grace Elizabeth Denton

Physiology

Glenn William Jelks
Gary Frank Merrill

CANDIDATES — FALL TERM, 1973

DEGREE OF
DOCTOR OF
MEDICINE

Bruce Michael Aikin
Larry Eugene Davis
Peter Michael Finkelstein
Vaughn Wesley Folkert
Martin James Francis Hrynck

René Gilbert Jaso
Richard Allan Kempf
David Foster LaRochelle
Mary Moelker Neering
Alan David Neiberg
Michael J. Quigley

James Ford Riopelle
Loren Lee Russcher
Udoro Gari Uwedjojevwe
Chris Adi VanSickle
Frederick Michael Vincent

DEGREE OF
MASTER
OF SCIENCE

Anatomy

Larry Frederick Hemken
Barry Dean Stringfield

Clinical Laboratory Science

Vida Mendoza Amog
Patricia Enid Gardner

Microbiology and

Public Health
Martha Ann Harris

DEGREE OF
BACHELOR
OF SCIENCE

Human Medicine

Jose de Jesus Treviño

Medical Technology

Deborah Ann Albee
Elizabeth Howard Aldrich
*Linda Lou Hoelzer

* With Honor

JUSTIN MORRILL COLLEGE

D. GORDON ROHMAN, DEAN

CANDIDATES — FALL TERM, 1973

DEGREE OF
BACHELOR
OF ARTS

Michael James Bacon
*Karen Kathleen Bazner
Robert Oscar Blunt
*Cathy Jo Brown
*Christopher Reid Buzan
**Diane Lois Cooper

*Kathleen Frances Davis
*Cathy Lee Ewbank
Keith Patrick Fleeman
Jessica Marie Gleason
*Charles Brewer House III
*Kathleen T. Hughes

James Tomlinson Karas
*Elizabeth Ann Niemeyer
Argelio Benjamin Perez
H*Richard Serber Plattner
*Barbara Jean Reynolds
**Jessica T. Scheer

H Honors College
* With Honor
** With High Honor

LYMAN BRIGGS COLLEGE

MICHAEL J. HARRISON, DEAN

CANDIDATES — FALL TERM, 1973

DEGREE OF
BACHELOR
OF SCIENCE

H° *Bryan Robert Benedict
°Mark Allen Dodge
James Ford
Gary Richard Lawatsch
H° *Susan G. Phelps
°John Christopher Ulicny

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

H° Jill Denise Reynolds
Donald F. Tujaka

JAMES MADISON COLLEGE

ROBERT F. BANKS, DEAN

CANDIDATES — FALL TERM, 1973

DEGREE OF
BACHELOR
OF ARTS

*Laurie Schooley Bailey
Joan Carol Bowman
*Terese Maureen Chase
Linda Marie Hathaway
H*°Christopher Martin James

A. Dennis Kasper
Edward Francis Knab
H*°Michael Joseph Maran
Michael Anthony Marks
H*°Gary David Marston

Eugenio Carlos Romero
Marcia Louise Sleight
Richard C. Smith
H*°David Edward Stevenson
H*°Nancy Carol Wrona

H Honors College
° With Honor
°° With High Honor

RESERVE OFFICERS TRAINING CORPS

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

AEROSPACE STUDIES

Larry Raymond Borton

Douglas William Gager

MILITARY SCIENCE

Armor

James Otto Gower

Corps of Engineers

David Arthur Jackson

Field Artillery

Bruce Roger Bloom
David Michael Jordan

Infantry

Brian James McCreedy

Ordnance Corps

Rosendo C. Reyes