



COMMENCEMENT 1972

MICHIGAN STATE UNIVERSITY

THE COMMENCEMENT COMMITTEE

HERMAN L. KING, *Chairman*

JOHN G. LAETZ

LLOYD R. CHAMPION

DAVID MESSING
Student Representative

DONALD DUNBAR

MILTON E. MUELDER

HORACE C. KING

RANDY RUPP
Student Representative

MADISON KUHN

KERMIT H. SMITH

DIPLOMAS WILL BE AVAILABLE FOR PICKUP AS FOLLOWS:

Advanced Graduate degreesbeginning Dec. 18—Room 150 Hannah Administration Building
Master degreesbeginning Dec. 27—Room 150 Hannah Administration Building
Bachelor degreesbeginning Jan. 3—Room 50 Hannah Administration Building

Diplomas will be released only to the degree recipients upon presentation of identification.
Diplomas not picked up by Jan. 22 will be mailed.



COMMENCEMENT 1972

Saturday, December 2

University Auditorium, East Lansing

Conferral of Graduate Degrees, 10 A.M.

Conferral of Baccalaureate Degrees, 3 P.M.

BOARD OF TRUSTEES

Michigan State University operates under the jurisdiction of a constitutional body known as the Board of Trustees. The eight elected members serve eight-year terms. Two are elected biennially from the state at large.

The President of the University is appointed by the Board and is by constitutional provision the presiding member of the body.

The Board likewise appoints a Secretary and a Treasurer.

The Board has general supervision of the University and the control and direction of all expenditures of University funds.

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

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

ACADEMIC COSTUME

The pageantry and color at commencement exercises reveal a record of academic achievement of the various individuals taking part in the exercises. The following brief description is given 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 ECOLOGY	<i>Maroon</i>
Forest Products, Forestry, Packaging	<i>Russet</i>	COLLEGE OF HUMAN MEDICINE	<i>Green</i>
COLLEGE OF ARTS AND LETTERS	<i>White</i>	JAMES MADISON COLLEGE	<i>Citron</i>
Music	<i>Pink</i>	JUSTIN MORRILL COLLEGE	<i>White</i>
Philosophy	<i>Navy Blue</i>	LYMAN BRIGGS COLLEGE	<i>Golden Yellow</i>
COLLEGE OF BUSINESS	<i>Drab</i>	COLLEGE OF NATURAL SCIENCE	<i>Golden Yellow</i>
Economics	<i>Copper</i>	Nursing	<i>Apricot</i>
COLLEGE OF COMMUNICATION ARTS	<i>Royal Blue</i>	COLLEGE OF OSTEOPATHIC MEDICINE	<i>Green</i>
Journalism	<i>Crimson</i>	COLLEGE OF SOCIAL SCIENCE	<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>		

ORDER OF CEREMONIES

Graduate Degrees

PROCESSIONAL

MSU Symphonic Band, Dr. Kenneth Bloomquist, *Director*

AMERICA.....*Smith*

(The Band and Audience)

PRAYER

SISTER MARY JANICE BELEN, R.S.M.

Administrator, St. Lawrence Hospital, Lansing

COMMENTS

DR. RICHARD L. SULLIVAN

Dean, College of Arts and Letters

SPECIAL MUSIC

AMERICAN OVERTURE*Jenkins*

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

SISTER MARY JANICE

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

MSU Symphonic Band, Dr. Kenneth Bloomquist, *Director*

AMERICA.....*Smith*

(The Band and Audience)

PRAYER

SISTER MARY JANICE BELEN, R.S.M.

Administrator, St. Lawrence Hospital, Lansing

ADDRESS

ELLIOT L. RICHARDSON

Secretary of Health, Education and Welfare

SPECIAL MUSIC

AMERICAN OVERTURE*Jenkins*

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

SISTER MARY JANICE

RECESSIONAL

The MSU Symphonic Band

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

MICHIGAN STATE UNIVERSITY

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

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

Now in its 118th 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 16 colleges — Agriculture and Natural Resources, Arts and Letters, Business, Communication Arts, Education, Engineering, Human Ecology, Human Medicine, James Madison, Justin S. Morrill, Lyman J. Briggs, Natural Science, Osteopathic Medicine, Social Science, Veterinary Medicine and the University College. 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, now nine in number, a stimulating academic environment. Each of these halls is the center of curricular and noncurricular activities, creating a "college within a college" atmosphere.

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

Today, more than 41,000 students attend the University at East Lansing. About 80 percent are from Michigan, representing every section of the state. Students also come from every state in the nation and 80 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

GEORGE A. GARRATT

In the half century since you received your baccalaureate degree in forestry at this university, you have followed a distinguished career as a scientist and educator. Now, as Dean Emeritus of the Yale University School of Forestry, you can view with just pride the many contributions which, as teacher, scholar and administrator, you have made to that institution and to your profession. In all your endeavors, you have shown unusual initiative, intelligence and dedication to the discovery of new knowledge to improve human welfare. Your contributions as Chief of the Division of Technical Service Training at the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture; as Director of the Packaging Training Center, U. S. Transportation Corps in Paris, France; as a member of the Connecticut State Park and Forest Commission and of the State Council on Agriculture and Natural Resources; and as a member of the National Forestry Research Advisory Committee of the U. S. Department of Agriculture are among a few of your notable services in behalf of your discipline and profession. These have been widely acclaimed by your colleagues in this country and abroad as have your accomplishments in academic programs in which you have remained active including your work as one of the editors of the *Journal of Forestry* and your work as chairman of the steering committee of the Society of Wood Science and Technology. As a researcher, scholar, administrator and public servant, this institution has honored you with awards for your distinguished services on three earlier occasions. Today, because of the credit which you have brought to yourself and your alma mater, and the continuing important accomplishments of your remarkable career in forestry, Michigan State University is pleased to grant you the degree of Doctor of Laws.

ELLIOT LEE RICHARDSON

In the course of your outstanding career as a lawyer, administrator and public servant, you have made notable contributions to America's social progress. As a practicing attorney and later as Lieutenant Governor and Attorney General of Massachusetts, you gave clear evidence of your integrity, your keen sense of justice and your concern for human rights.

More recently, as Undersecretary of the U. S. Department of State and now as Secretary of Health, Education and Welfare, you have continued with admirable energy and dedication your efforts to enhance the educational and social well-being of our nation. In all of these undertakings, you have contended firmly and fairly for

HONORARY DEGREES

the democratic principle in our institutions and our public policy. In the development of the new Higher Education Bill you have espoused cogently the need to encourage the reform of post-secondary education, to innovate improvements in the learning process, to provide equal opportunity for all, and to create institutions and programs which might lead to new paths to career and professional training as well as new combinations of academic and experimental learning.

Your participation in the World Affairs Council of Boston; in the United Community Services of Metropolitan Boston; in the Greater Boston United Fund Campaign; your appointment as Massachusetts General Hospital trustee and as a member of the board of overseers of Harvard College are exemplary of your broad professional concerns and your willingness to give generously of your time and effort to promote civic projects in your native New England. Because of your exceptional record in legal and social affairs, and your constant devotion to the educational and cultural progress of the American people, Michigan State University is pleased to grant you the degree of Doctor of Laws.

LEONARD WOODCOCK

Throughout your long career you have devoted your energy and leadership to solving the economic and social problems of the common man. Your competence and integrity have been widely recognized in the labor movement but you have also been entrusted with important responsibilities in a variety of endeavors pointed toward the amelioration of your fellow man. Your work as Chairman, Committee on National Health Insurance, as a member of the Advisory Committee on the National Committee Against Discrimination in Housing, as a member of the Executive Committee of the National Urban Coalition, as a member of the President's Commission on Productivity, as a member of the American Civil Liberties Union and the NAACP are illustrative of the scope of your concerns.

Among your professional activities, you have served the United Automobile Workers as a regional director, as vice president, and since 1970 as its president. Through contract negotiations with the automobile industry, as well as through your influence in governmental and other national agencies, you have worked successfully against discriminatory employment practices and for labor-management programs providing cost-of-living protection, a fair retirement plan, and other benefits for working people. By these means, and through political action and public service, you have expressed your deep loyalty to the principles of justice and human dignity. In recognition of the valuable contributions which you have made to the social welfare of the working men and women in Michigan and throughout the nation, Michigan State University is pleased to grant you the degree of Doctor of Laws.

THE CANDIDATES FOR DEGREES

1972 CLASS ROSTER

This includes the names of candidates for degrees as of the close of the 1972 Fall term, as well as the names of the recipients of the Doctoral and Master degrees at the close of the 1972 Summer term.

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

SCHOOL FOR ADVANCED GRADUATE STUDIES

MILTON E. MUELDER, DEAN

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972

TIM GARDINER ADAMS, Ph.D.

B.S., Lawrence Institute; M.S., University of Michigan.
Mechanical Engineering. Major Professor: Mahlon C. Smith, Associate Professor.
Thesis: Experimental Investigation of the Interaction of a Detonation Wave with a Boundary Gas.

JOHN R. AIELLO, Ph.D.

B.A., City College of New York; M.A., Queens College.
Psychology. Major Professor: Jeanne E. Gullahorn, Associate Professor.
Thesis: Male and Female Visual Behavior as a Function of Distance and Duration of an Interviewer's Direct Gaze: Equilibrium Theory Revisited.

HAMOUD ABDELAZIZ AL-BADR, Ph.D.

B.A., Cairo University; M.A., Michigan State University.
Education. Major Professor: Walter F. Johnson, Professor.
Thesis: Public Relations Activities at Two Saudi Arabian Universities.

STEPHEN ROBERT ALKIRE, Ph.D.

B.A., M.A., University of California.
Theatre. Major Professor: Farley P. Richmond, Associate Professor.
Thesis: The Development and Treatment of the Negro Character as Presented in American Musical Theatre 1927-1968.

RUTH MARIE ALLEN, Ph.D.

B.S., University of Michigan; M.S., Michigan State University.
Education. Major Professor: Paul W. F. Witt, Professor.
Thesis: Interest of Medical Technology Students in Two Models of the Certification Process.

RAFAEL AMEZQUITA, Ph.D.

B.S., M.S., University of California.
Horticulture. Major Professor: Donald H. Dewey, Professor.
Thesis: Control of Internal Breakdown in Jonathan Apple Fruits by Preharvest Regulation of Sorbitol Content.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- ELKE KOCH-WESER AMMASSARI, Ph.D. Diploma, Hochschule F. Gestaltung; M.A., Michigan State University. Communication. Major Professor: Everett M. Rogers, Professor. Thesis: Television Influence and Cultural Attitudinal Innovativeness: A Causal Approach.
- JOHN FRED ANNEGERS, Ph.D. B.A., M.A., Michigan State University. Geography. Major Professor: Georg Borgstrom, Professor. Thesis: Geographic Patterns of Diet and Nutritional Status in West Africa with Special Reference to Calorie and Protein Deficiencies.
- MARTHA BUSH ASHTON, Ph.D. B.A., Florida State University; M.F.A., University of Georgia. Theatre. Major Professor: Farley P. Richmond, Associate Professor. Thesis: Yakshagana Badagattittu Bayalata: A South Indian Dance Drama.
- RICHARD H. AYLING, Ph.D. B.A., Alma College; M.A., University of Michigan. Education. Major Professor: John H. Suehr, Professor. Thesis: An Exploratory Study of the Formal and Informal Relationships Between Black and White Students in a Large, Racially Mixed, Urban High School.
- WILLIAM E. BARBER, Ph.D. B.A., M.A., Western Michigan University; M.S., Michigan State University. Education. Major Professor: Robert O. Nolan, Professor. Thesis: A Study to Determine the Nature and Scope of Police Roll Call Training in Cities with 25,000 to 100,000 Population in the United States.
- KATHRYN OTTINGER BARTOL, Ph.D. B.A., Marygrove College; M.A., University of Michigan. Business Administration, (Management). Major Professor: Dalton E. McFarland, Professor. Thesis: The Effect of Male Versus Female Leaders on Satisfaction, Performance, and Perception of Leader Behavior in Small Work Groups.
- ROBERT ANTHONY BARTOL, Ph.D. B.A., M.A., University of Detroit. History. Major Professor: Arthur E. Adams, Professor. Thesis: A. S. Suvorin and his "Malen'kiia pis'ma": A Publisher's Public Commentary on Tsarist Russia, 1900-1906.
- ROBERT BASS, Ph.D. B.S., Drexel Institute of Technology; M.S., Michigan State University. Physics. Major Professor: Peter A. Schroeder, Professor. Thesis: High-Field Magnetoresistance of AuGa, AuPb₂ and Au₂Pb.
- ROBERT CLARK BAYER, Ph.D. B.S., M.S., University of Vermont. Poultry Science. Major Professor: Robert K. Ringer, Professor. Thesis: The Influence of Dietary Vitamin A on Atherogenesis in Japanese Quail.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- ROSALIND ROSOFF BEIMLER, Ph.D. B.S., University of Southern California; M.A., Michigan State University.
Education. Major Professor: Charles A. Blackman, Professor.
Thesis: An Exploratory Study of the Relationship Between Cross-Cultural Interaction and the Social Values of "Concerned World-mindedness" Held by Multi-National Student Groups at the American High School in Mexico City.
- PANFILO SAZON BELO, Ph.D. B.S., University of the Philippines; M.S., Michigan State University.
Food Science. Major Professor: Pericles Markakis, Professor.
Thesis: Enzymatic Development of Volatile Components in Onions.
- CARLTON L. BENTZ, Ph.D. B.A., Eastern Baptist College; M.A., University of Michigan.
Education. Major Professor: Stanley Hecker, Professor.
Thesis: The Chief School Administrator in Selected Overseas American-Sponsored Schools: A Study in Crisis Management.
- JOSEPH ANTHONY BERGIN, Ph.D. B.A., Loyola University; M.A., University of Kansas.
Mathematics. Major Professor: Jan Marik, Professor.
Thesis: A New Characterization of Cesàro-Perron Integrals Using Peano Derivates.
- JOHN WILLIAM BOOKS, Ph.D. B.A., Wisconsin State University.
Political Science. Major Professor: Paul R. Abramson, Associate Professor.
Thesis: Status Inconsistency, Cross-Pressures, and Voting: The 1968 American Presidential Election as a Test Case.
- EDWARD HOWARD BORCK, Ph.D. B.A., Notre Dame University; M.A., Michigan State University.
Sociology. Major Professor: John T. Gullahorn, Professor.
Thesis: Social Psychological Determinants of Job Satisfaction Among Social Science Faculty at Two Mid-Western Universities.
- RICHARD JOSEPH BOUTELLE, Ph.D. B.S., Florence State College; M.Ed., University of Massachusetts.
Education. Major Professor: Elwood E. Miller, Associate Professor.
Thesis: The Attitudes Expressed Toward Instructional Development by Three Groups as a Function of Selected Professional Variables.
- PAUL LESLIE BRADFELD, Ph.D. B.S., M.S., Michigan State University.
Zoology. Major Professor: George J. Wallace, Professor.
Thesis: Robin Population Changes and Pesticide Transformations After Methoxychlor Replaces DDT for Control of Dutch Elm Disease.
- EQUILLA FORREST BRADFORD, Ph.D. B.S., M.A., Wayne State University.
Education. Major Professor: Dale V. Alam, Professor.
Thesis: A Comparison of Two Methods of Teaching in the Elementary School as Related to Achievement in Reading, Mathematics, and Self-Concept of Children.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

JOHN OTTER BRINEY, Ph.D.

B.A., Centre College; M.A., University of Louisville.
English. Major Professor: James L. Hill, Associate Professor.
Thesis: Alfred Tennyson's *The Lover's Tale*: An Interpretation.

FREDRICK GEORGE BRISCOE, Ph.D.

B.A., Northern Michigan University; M.A., Michigan State University.
Education. Major Professor: Charles A. Blackman, Professor.
Thesis: The Professional Concerns of First-Year Secondary Teachers in Selected Michigan Public Schools: A Pilot Study.

WILLIAM ALBERT BROWNE, Ph.D.

B.A., Catawba College; M.A., Michigan State University.
Education. Major Professor: William A. Mann, Professor.
Thesis: A Comparative Study of Students and Their Parents in Relation to Behavioral Categories and Violation Records.

HERBERT FRANCIS BUCHOLTZ, Ph.D.

B.S., University of Georgia; M.S., University of Illinois.
Animal Husbandry. Major Professor: Werner G. Bergen, Associate Professor.
Thesis: Microbial Protein Synthesis in the Rumen: Assessment of Radioactive Phosphorous as a Marker for Cellular Growth.

JAMES JOSEPH BYRNE, Ph.D.

B.A., University of Michigan; M.A., University of Tennessee.
Sociology. Major Professor: Herbert H. Karp, Associate Professor.
Thesis: Migration, the Export Base, and Community Ecological Structure.

ELIHU CARRANZA, Ph.D.

B.A., San Jose State College; M.A., Washington University.
Education. Major Professor: Howard W. Hickey, Associate Professor.
Thesis: A Study of the Impact of Life Changes on High School Teacher Performance in the Lansing School District as Measured by the Holmes and Rahe Schedule of Recent Experience.

ERSKINE HAMILTON CASH, Ph.D.

B.S., Virginia Polytechnic Institute.
Animal Husbandry. Major Professor: Hugh E. Henderson, Professor.
Thesis: Relationship of Silage Fermentation and Additives to Dry Matter Consumption by Ruminants.

PAUL ANTHONY CATACOSINOS, Ph.D.

B.A., M.S., University of New Mexico.
Geology. Major Professor: James H. Fisher, Professor.
Thesis: Cambrian Stratigraphy of the Lower Peninsula of Michigan.

FRANK LANE CHARTON, Ph.D.

B.A., George Peabody College; M.A., Michigan State University.
Geography. Major Professor: Jay R. Harman, Assistant Professor.
Thesis: A Dendrochronological Appraisal of Climatic, Edaphic, and Floristic Patterns in Northwestern Indiana.

OH KON CHO, Ph.D.

B.A., Korea University; M.F.A., University of Oklahoma.
Theatre. Associate Professor: Farley P. Richmond, Associate Professor.
Thesis: Chi-Jin Yoo: A Patriotic Playwright of Korea.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

CHUEN TYI CHOW, Ph.D.

B.A., National Taiwan University; M.A., University of Minnesota. Geography. Major Professor: Lawrence M. Sommers, Professor. Thesis: China's Internal Transport Problem: The Case of the Railways' First Century, 1866-1966.

CHARLES G. CLARK, Ph.D.

B.S., Utah State University; M.S., University of Michigan. Education. Major Professor: Richard L. Featherstone, Professor. Thesis: An Assessment of Selected Variables in the Selection of Students for Secondary Area Vocational Programs.

HUGH MONTGOMERY CLARK, Ph.D.

B.A., Tufts University; M.A., Michigan State University. Political Science. Major Professor: Timothy M. Hennessey, Associate Professor. Thesis: Economic Development and the Culture of Modern Democracy: A Study of Developmental Processes Among Costa Rican Students.

ALAN CHARLES COE, Ph.D.

B.B.A., M.B.A., Western Michigan University. Education. Major Professor: Laurine E. Fitzgerald, Professor. Thesis: A Study of the Procedures Used in Collective Bargaining with Faculty Unions in Public Colleges and Universities.

ROBERT STEPHEN COLE, Ph.D.

A.B., University of California; M.S., University of Washington. Physics. Major Professor: Wayne W. Repko, Assistant Professor. Thesis: Recoil Corrections to the Hydrogen Hyperfine Splitting of Order $(m_e/m_p) a^6 \ln a^{-1}$.

NAT JOSEPH COLLETTA, Ph.D.

B.A., M.A., State University of New York. Education. Major Professor: Cole S. Brembeck, Professor. Thesis: American Schools for the Natives of Ponape: A Case Study of the Role of Education in the Development of Cultural Character Among the Ponapeans of Micronesia.

LAWRENCE JOHN CONNOR, Ph.D.

B.S., M.S., Michigan State University. Entomology. Major Professor: Ethelbert C. Martin, Professor. Thesis: Components of Strawberry Pollination in Michigan.

JAMES RICHARD COVERT, Ph.D.

B.S., Cornell University; M.A., M.S., Michigan State University. Education. Major Professor: Marvin E. Grandstaff, Associate Professor. Thesis: The Academic Profession: A Critical Analysis.

WILLIAM AUSTIN COWLEY, Ph.D.

B.A., Georgetown College; M.A., University of Florida. Education. Major Professor: John W. Hanson, Professor. Thesis: Identifying and Developing the English Language Reading Skills of Nigerian Secondary School Students.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

OLGA KARPIS CREASER, Ph.D.

B.A., University of Michigan; M.A., Michigan State University.
Education. Major Professor: Keith P. Anderson, Associate Professor.
Thesis: Opinion Survey of Selected Rural, Suburban and Urban In-Service Elementary Teachers About their Undergraduate Teacher Education Program at Michigan State University.

ROSS TALLMAN DAILEY, Ph.D.

B.S., Albany State Teachers College; M.S., State University of New York.
Education. Major Professor: Peter G. Haines, Professor.
Thesis: A Profile of DECA in New York State with Selected Educators' and Secondary Students' Perceptions Regarding Functional and Operational Beliefs of that Organization.

PATRICK DOUGLAS DAUNT, Ph.D.

B.A., M.A., Michigan State University.
Education. Major Professor: George R. Myers, Professor.
Thesis: A Follow-Up Study of the Michigan State University-Lansing School District SERL Project and the Conventional Program of Student Teaching in the Lansing Public Schools with Comparisons of Teacher Attitudes, Ratings, and Career Progress.

DAVID OTTO DEFOWW, Ph.D.

B.S., Hope College; M.S., Michigan State University.
Anatomy. Major Professor: Robert Echt, Associate Professor.
Thesis: The Pulmonary Vascular Responses to Unilateral Vagal or Sympathetic Stimulations in Intact Dogs, Cats, and Rabbits.

DAVID JOHN DEPALMA, Ph.D.

B.A., Lehigh University; M.A., Michigan State University.
Psychology. Major Professor: John Paul McKinney, Professor.
Thesis: The Effects of Social Class, Moral Orientation, and Severity of Punishment on Children's Moral Responses to Transgression.

WILLIAM BERT DESCHAMPS, Ph.D.

B.S., Eastern Michigan University; M.S.T., Antioch College.
Education. Major Professor: Dale V. Alam, Professor.
Thesis: A Case History of the Development and Implementation of the Nine-Week Course Concept at Besser Junior High School in Alpena, Michigan.

AUGUSTUS CAESAR DICKINSON, Ph.D.

B.S., Alabama State University; M.A., Michigan State University.
Education. Major Professor: Van C. Johnson, Professor.
Thesis: A Study of the Emergence and Development of Community Service Programs in the Seventeen State Junior Colleges of Alabama.

WILLIAM RICHARD DONOHUE, Ph.D.

B.A., University of Northern Iowa; M.A., Michigan State University.
Education. Major Professor: Eldon R. Nonnamaker, Professor.
Thesis: A Descriptive Study of Central Michigan University Student Attitudes Toward Collective Bargaining.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- MARVIN EARL DUNCAN, Ph.D. B.S., M.A., North Carolina Central University.
Education. Major Professor: Elwood E. Miller, Associate Professor.
Thesis: Expressed Attitudes of Three Selected Groups Toward Institutional Development as a Function of (1) Age, (2) Years of Experience, and (3) Instructional Mode: An Exploratory Study.
- THOMAS EDWARD ELSNER, Ph.D. B.A., M.A., Western Michigan University.
Mathematics. Major Professor: Harvey Davis, Professor.
Thesis: Inverse Limits of Finite Spaces.
- RICHARD JAY EPPINGA, Ph.D. A.B., Calvin College; M.A., Michigan State University.
History. Major Professor: Warren I. Cohen, Professor.
Thesis: Aristocrat, Nationalist, Diplomat: The Life and Career of Huntington Wilson.
- PHILIP M. ERICSON, Ph.D. B.S., University of New Hampshire; M.S., Emerson College.
Communication. Major Professor: Erwin P. Bettinghaus, Professor.
Thesis: Relational Communication: Complementarity and Symmetry and Their Relation to Dominance-Submission.
- EUGENE E. EUBANKS, Ph.D. B.A., Edinboro State College.
Education. Major Professor: John H. Suehr, Professor.
Thesis: Teachers' Job Satisfaction and Dissatisfaction in Defacto Segregated High Schools.
- L. DEAN EYMAN, Ph.D. B.S., Bradley University; M.S., Michigan State University.
Fisheries and Wildlife. Major Professor: Niles R. Kevern, Professor.
Thesis: Cesium-137 and Stable Cesium in a Hypereutrophic Lake.
- PHILIP LYLE FANSON, Ph.D. B.S., Michigan State University; M.S., Cornell University.
Electrical Engineering. Major Professor: Kun-Mu Chen, Professor.
Thesis: Multi-Impedance Loading of Linear Antennas for Improved Transmitting and Receiving Characteristics.
- WILLIAM HENRY FARICY, Ph.D. B.A., M.A., University of Chicago.
Education. Major Professor: Paul L. Dressel, Professor.
Thesis: A Classification of Academic Departments at Michigan State University Based on Functional Characteristics.
- NURETTIN FIDAN, Ph.D. Diploma, Pedagogical Institute; M.S., Indiana University.
Education. Major Professor: Carl H. Gross, Professor.
Thesis: Equality of Educational Opportunity in Turkey (A Quantitative Approach).
- THOMAS LEWIS FIESTER, Ph.D. B.A., M.A., Western Michigan University.
Education. Major Professor: William W. Farquhar, Professor.
Thesis: An Investigation of the Process and Outcomes of the Elimination of Self-Defeating Behavior Workshops: A Group Treatment for Specific College Student Problems.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- JERRY BURT FITTS, Ph.D. B.S., North Carolina State University; M.S.A., University of Florida. Soil Science. Major Professor: Bernard D. Knezek, Associate Professor. Thesis: Utilization and Loss of Nitrogen from an Organic Soil Profile.
- THOMAS U. FOSTER, Ph.D. B.A., San Diego State College; M.A., Michigan State University. Education. Major Professor: Erling S. Jorgensen, Professor. Thesis: An Evaluation of a Mediated Introduction to Television Production.
- ANNE MARIE FUHRIG, Ph.D. Certificate, Osnabrück; M.A., Michigan State University. German, Language and Literature. Major Professor: George W. Rademsky, Professor. Thesis: Die Sprachgestaltung in der Erzählenden Prosa Agnes Mie-gels: Eine Strukturanalyse.
- OLE GADE, Ph.D. B.A., M.S., Florida State University. Geography. Major Professor: Lawrence M. Sommers, Professor. Thesis: Spatial Process and Change in a Depressed Area: A Study of Migration in Nordland County, Norway.
- MARILYN MANGOLD GARST, Ph.D. B.M., University of Southern California; M.M., Indiana University. Music. Major Professor: Russell E. Friedewald, Professor. Thesis: The Early Twentieth-Century Piano Concerto as Formulated by Stravinsky and Schoenberg.
- RONALD DAVID GARST, Ph.D. B.S., M.A., Arizona State University. Geography. Major Professor: John M. Hunter, Professor. Thesis: The Spatial Diffusion of Agricultural Innovations in Kisii Dis-trict, Kenya.
- WINSTON ARNOLD GIBSON, Ph.D. B.S., University of Cincinnati. Education. Major Professor: Samuel A. Moore, II, Professor. Thesis: An Educational Curriculum for Police Training.
- THEODORE FREDERICK GIES, Ph.D. B.S., University of Wyoming. Geology. Major Professor: Aureal T. Cross, Professor. Thesis: Palynology of Sediments Bordering Some Upper Cretaceous Strand Lines in Northwestern Colorado.
- RICHARD JOSEPH GIGLIOTTI, Ph.D. B.A., St. John Fisher College; M.A., Michigan State University. Sociology. Major Professor: Wilbur B. Brookover, Professor. Thesis: The Expectation Pattern: An Analysis of Elementary School Social Environments.
- WILLIAM HARPER GIRVIN, JR., Ph.D. B.A., Washington and Lee University; M.A., Michigan State University. German, Language and Literature. Major Professor: Stuart A. Gallacher, Professor. Thesis: The Medieval German Proverb as Reflected in the *Gesammta-benteuer*.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- RAYMOND PETER GOEDERT, Ph.D. B.S., College of St. Thomas; M.S., University of Minnesota.
Mathematics. Major Professor: Clifford E. Weil, Associate Professor.
Thesis: A Darboux Property for the Gradient.
- SANDRA ELIZABETH
SIEKER GRANETT, Ph.D. B.S., Dominican College; M.S., Michigan State University.
Biochemistry. Major Professor: William W. Wells, Professor.
Thesis: Perturbations of Energy Metabolism in Chick Brain Induced
by Hyperphenylalanemia and Galactosemia.
- JAMES THOMAS GRESHAM, Ph.D. B.A., Washington State University; M.A., Michigan State University.
English. Major Professor: Bernard J. Paris, Professor.
Thesis: John Barth as Menippean Satirist.
- ALBERT WAYNE GROCE, Ph.D. B.S.A., M.S., University of Arkansas; D.V.M., Michigan State University.
Animal Husbandry and Institute of Nutrition. Major Professor: Duane E. Ullrey, Professor.
Thesis: Selenium and/or Vitamin E Supplementation of Practical Swine Diets.
- FRANK JOSEPH GRUBER, IV, Ph.D. B.S., Mankato State College; M.A., Michigan State University.
Education. Major Professor: Robert E. Gustafson, Associate Professor.
Thesis: A Determination of Fundamental Concepts to be Used in a Parental Involvement Program in Driver Education and their Relative Importance at the Secondary-School Level.
- FRANCIS ALOYSIUS GULDBRANDSEN, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Marvin E. Grandstaff, Associate Professor.
Thesis: Some of the Pedagogical Implications in the Theoretical Work of Viktor Frankl in Existential Psychology: A Study in the Philosophic Foundations of Education.
- MASSOUD HAKIMIAN, Ph.D. B.S., Pahlari University; M.S., North Carolina State University.
Soil Science. Major Professor: Eugene P. Whiteside, Professor.
Thesis: Extractability of Carbon, Iron and Aluminum from Spodic Horizons of Representative Michigan Spodosols, Using Various Chelating Agents.
- POLIA LERNER HAMBURGER, Ph.D. B.A., University of Sao Paulo; M.A., Michigan State University.
Business Administration (Marketing). Major Professors: William Lazer and Donald A. Taylor, Professors.
Thesis: An Exploratory Study of the Meaning of Social Indicators in Product Strategy.
- THOMAS CHARLES HAMILTON, Ph.D. B.S., M.S., Michigan State University.
Biophysics. Major Professor: Edward M. Eisenstein, Professor.
Thesis: A Quantitative Analysis of Behaviors During Habituation Training of the Ciliated Protozoan, *Spirostomum ambiguum*.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- NANCY GARRISON HARRIES, Ph.D. B.S., Louisiana Polytechnic Institute; M.S., University of Tennessee. Family Ecology. Major Professors: Frances M. Magrabi and Beatrice Paolucci, Professors.
Thesis: The Effect of a Programmed Course of Instruction on the Development of Information-Processing Competence and Decision-Making Styles.
- THOMAS EDWARD HARRIES, Ph.D. B.A., M.A., The Ohio State University. Education. Major Professor: Charles F. Schuller, Professor.
Thesis: Human Information Processing, Locus of Perceived Control, and Intrinsic-Extrinsic Motivation as Related to Success and Attitude in a Programmed Course of Instruction.
- ROBERT NORMAN HARRIS, JR., Ph.D. B.A., Stanford University; M.A., Michigan State University. Psychology. Major Professor: George W. Fairweather, Professor.
Thesis: The Diffusion of the Community Lodge.
- JAMES JOHN HARTWAY, Ph.D. B.A., M.M., Wayne State University. Music. Major Professor: H. Owen Reed, Professor.
Thesis: *Seven Ways of Looking at a Blackbird*.
- JAMES HAWKINS, Ph.D. B.S., Western Michigan University; M.A., Wayne State University. Education. Major Professor: Louis G. Romano, Professor.
Thesis: A Study to Ascertain Actual Middle School Practices as Compared to Reported Middle School Practices in Selected Michigan Schools and Nationally Prominent Schools as Perceived by Teachers and Principals.
- KARL HUGO HEISE, Ph.D. A.B., Eastern Michigan University; M.A., Michigan State University. Spanish, Language and Literature. Major Professor: Carlos M. Teran, Professor.
Thesis: Society and Artistic Technique in the Novels of the "Grupo De Guayaquil".
- JOHN RUSSELL HENDERSON, Ph.D. B.S., M.S., Illinois State University. Geography. Major Professor: Daniel Jacobson, Professor.
Thesis: Haida Culture Change: A Geographical Analysis.
- RONALD DAVIS HENDERSON, Ph.D. B.S., M.Ed., Wayne State University. Education. Major Professor: Wilbur B. Brookover, Professor.
Thesis: A Comparative Analysis of Social-Psychological School Climate Variables in White and Black Elementary Schools with Socio-Economic Status and Achievement Controlled.
- RAWLIN RAE HERIGSTAD, Ph.D. D.V.M., Colorado State University; M.S., Michigan State University. Pathology. Major Professor: Charles K. Whitehair, Professor.
Thesis: Pathology of Inorganic and Organic Selenium Toxicosis in Young Swine.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- WILLIAM H. HOLLOWAY, Ph.D. B.S., M.S., Central Michigan University.
Education. Major Professor: F. R. Ignatovich, Assistant Professor.
Thesis: An Exploratory Study of Selected Aspects of the Public School System in Michigan Employing System Simulation.
- RICHARD LEE HOOVER, Ph.D. B.A., The Ohio State University; M.S., University of Kentucky.
Zoology. Major Professor: R. Neal Band, Professor.
Thesis: An Analysis of Cellular Adhesion and Surface Membranes in a Small Amoeba.
- RUSSELL MARK HORTON, Ph.D. B.A., M.A., Michigan State University.
English. Major Professor: Russel B. Nye, Professor.
Thesis: The People's Champion: Lincoln Steffens, The Muckraking Years.
- FLOYD VARIAN HOWER, JR., Ph.D. B.S., Rutgers University; M.A., Ball State University.
Education. Major Professor: Van C. Johnson, Professor.
Thesis: An Investigation of the Relationship of Certain Variables on the PCS Statements of MSU 1970-71 Freshmen with the Rejection of Various Types of Financial Aid.
- HAROLD WESLEY HUBER, Ph.D. B.S., California State College; M.A., Michigan State University.
Education. Major Professor: George R. Myers, Professor.
Thesis: An Investigation of the Effects of Selected Simulated Classroom Situations on Student Teacher Attitude and Empathy.
- GARY L. HULL, Ph.D. B.S., Western Illinois University; M.S., Indiana University.
Education. Major Professor: Paul W. F. Witt, Professor.
Thesis: A Comparative Study of Selected Ethnic Characteristics of Information Sources and Their Influence on the Receiver.
- PAMELA ROCHELLE JACKSON, Ph.D. B.A., San Fernando Valley State College; M.A., Michigan State University.
Psychology. Major Professor: Gary E. Stollak, Associate Professor.
Thesis: Self-Conceptions in Black Male and Female College Students.
- ABDULRAHMAN IBRAHIM JAMMAZ, Ph.D. B.A., Mecca College of Education; M.A., Michigan State University.
Education. Major Professor: Van C. Johnson, Professor.
Thesis: Saudi Students in the United States: A Study of their Adjustment Problems.
- LOUISE JENSEN, Ph.D. B.Ed., University of Calgary; M.A., Michigan State University.
English. Major Professor: James C. Stalker, Assistant Professor.
Thesis: A Psycholinguistic Analysis of the Oral Reading Behavior of Selected Proficient, Average and Weak Readers Reading the Same Material.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

ALEXIS ARLEEN JOHNSON, Ph.D.

B.A., M.A., Michigan State University.
Psychology. Major Professor: Dozier W. Thornton, Associate Professor.
Thesis: A Comparison of Neuroticism in Delinquent Girls and Boys and Subsequent Implications for Treatment for Girls.

HOWARD G. JOHNSON, Ph.D.

B.A., Valparaiso University.
Geography. Major Professor: Daniel Jacobson, Professor.
Thesis: The Franconian Colonies of Saginaw Valley, Michigan: A Study in Historical Geography.

GALIP KARAGOZUGLU, Ph.D.

B.A., Ball State University; M.A., Michigan State University.
Education. Major Professor: Richard L. Featherstone, Professor.
Thesis: The Role of Ministry Supervisors in the Turkish Educational System.

EDWARD PAUL KELLER, Ph.D.

B.S., State Teachers College; M.Ed., Wayne State University.
Education. Major Professor: R. L. Featherstone, Professor.
Thesis: The Territory of the Michigan Elementary School Principal.

ELIZABETH ANN KELLEY, Ph.D.

B.A., Pennsylvania State University; M.A., Michigan State University.
Political Science. Major Professor: Frank A. Pinner, Professor.
Thesis: Socioeconomic Modernization, Political Institutionalization and Instability in European Politics.

MORRIS KINSEY, Ph.D.

B.S., M.A., Michigan State University.
Education. Major Professor: Van C. Johnson, Professor.
Thesis: Financial Assistance as a Significant Factor in the Educational Survival of Selected Black Students at Michigan State University.

SARAH SPACIE KNIGHT, Ph.D.

B.A., M.A., Michigan State University.
Education. Major Professor: Robert C. Craig, Professor.
Thesis: Manipulating Response Set in the True-False Test.

JOHN JOSEPH KOICHEVAR, Ph.D.

B.A., M.A., Michigan State University.
Communication. Major Professor: Gerald R. Miller, Professor.
Thesis: Multivariate Causal Models of Information Flow in Rural Brazil.

DON EDWARD KOEHLER, Ph.D.

B.S., University of Illinois; M.S., Purdue University.
Biochemistry. Major Professor: Joseph E. Varner, Professor.
Thesis: Hormonal Control of Phospholipid Synthesis in Barley Aleurone Layers.

VIKROM KOOMPIROCHANA, Ph.D.

B.A., Chulalongkorn University; M.A., Michigan State University.
History. Major Professor: Donald N. Lammers, Associate Professor.
Thesis: Siam in British Foreign Policy 1855-1938: The Acquisition and the Relinquishment of British Extraterritorial Rights.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- ROBERT VINCENT KOVACH, Ph.D. B.S., M.A., Central Michigan University.
Education. Major Professor: Van C. Johnson, Professor.
Thesis: A Study of Michigan Community College Administrator Attitudes Regarding the Desired Formal Qualifications of Community College Faculty Members.
- HENRY WILLIAM KUEHL, Ed.D. B.A., M.A., Iowa State Teachers College.
Education. Major Professor: George R. Myers, Professor.
Thesis: A Study of the Factors which Influenced Michigan Industrial Arts Teachers' Selection of Instructional Units.
- KRISHNA KUMAR, Ph.D. B.A., Agra University; M.A., Michigan State University.
Sociology. Major Professor: Frederick Waisanen, Professor.
Thesis: Education, Innovative Behavior and Individual Modernity in a Developing Society: An Attempt in Model Construction.
- ISMAEL LANDRON-CONCEPCION, Ph.D. B.S., University of Puerto Rico; M.S., Michigan State University.
Botany and Plant Pathology. Major Professor: Henry A. Imshaug, Professor.
Thesis: The Lichen Genus *Ramalina* Ach. in the West Indies with Notes on its Role in the Vegetation of Puerto Rico.
- CRYSTAL MARIE LANGE, Ph.D. B.S., University of Michigan; M.S., Wayne State University.
Education. Major Professor: Charles F. Schuller, Professor.
Thesis: A Study of the Effects on Learning of Matching the Cognitive Styles of Students and Instructors in Nursing Education.
- ALBERTO DE OLIVEIRA LIMA-FILHO, Ph.D. B.A., University of Sao Paulo; M.B.A., Michigan State University.
Business Administration (Marketing). Major Professor: Leo G. Erickson, Professor.
Thesis: An Analysis of the Development of Controlled Retailing Systems in the Greater S. Paulo Metropolitan Area.
- DOUGLAS MARION LITTLE, Ph.D. A.B., Miami University; M.A., Michigan State University.
Psychology. Major Professor: William D. Crano, Associate Professor.
Thesis: Counterargumentation Inhibition as a Mediator of the Role-Playing — Attitude-Change Relationship.
- HUA VANG LOC, Ph.D. B.S., University of Saigon; M.S., Michigan State University.
Education. Major Professor: T. Wayne Taylor, Professor.
Thesis: A Macro-Design of an Operational Model for the Development of Chemistry Programs in Viet Nam: Implications for Chemistry Education in Vietnamese Secondary Schools and for the Pre-Service Education of Prospective Physics and Chemistry Teachers in Viet Nam.
- FRANCIS JOSEPH LONG, Ph.D. B.A., Hillsdale College; M.A., Michigan State University.
Psychology. Major Professor: Bertram P. Karon, Professor.
Thesis: Applicability of the Body Image Boundary Construct to the Psychopathology of Chronic Schizophrenics.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- DEAN PAUL LONGRIE, Ph.D. B.S., University of Wisconsin; M.S., Michigan State University. Fisheries and Wildlife. Major Professor: Leslie W. Gysel, Professor. Thesis: Aspects of Juneberry Biology, Management Potential and Wildlife Value.
- GEORGE MACGREGGOR LOVE, Ph.D. B.A., DePauw University; M.A., Wake Forest University. Chemistry. Major Professor: Harold Hart, Professor. Thesis: Part I: A Multi-Step Carbonium Ion Rearrangement in the Bicyclo [2.2.2.] octyl System; Part II: The Effects of Remote Substituents on Di-II-methane Photoisomerizations.
- EDWARD JOSEPH LUKOSIUS, Ph.D. B.S., Boston College. Chemistry. Major Professor: Kenneth J. Coskran, Assistant Professor. Thesis: Part I: Spectroscopic Studies of Four- and Five-Coordinate Transition Metal Complexes with Tertiary Phosphorus Ligands. Part II: Reactions of Some Cyanophosphines with Diborane and Boron Trifluoride.
- BASIL JOHN MACRIS, Ph.D. B.S., Athens Agricultural University; M.S., Michigan State University. Food Science. Major Professor: Pericles Markakis, Professor. Thesis: Transport and Toxicity of Sulfur Dioxide in the Yeast *Saccharomyces Cerevisiae* var. *Ellipsoideus*.
- ROGER ANTHONY MADER, Ph.D. B.S., Loyola University; M.S., Xavier University. Chemistry. Major Professor: Donald G. Farnum, Professor. Thesis: The Rearrangements of Abietic Acid and Longifolene in Fluorosulfonic Acid.
- WALTER HARNE MANNING, Ph.D. B.A., Lycoming College; M.Ed., Pennsylvania State University. Audiology and Speech Sciences. Major Professor: Daniel S. Beasley, Assistant Professor. Thesis: Coarticulation as an Adjunct to Speech Perception.
- FREDDIE MARTIN, Ph.D. B.S., University of California. Education. Major Professor: Max R. Raines, Professor. Thesis: A Comparative Analysis of Two Work-Study Programs in an Urban Community College.
- WILLIAM DONALD MARTIN, Ph.D. A.B., Wabash College; M.S., Indiana University. Resource Development. Major Professor: Michael Chubb, Associate Professor. Thesis: Recreation Resource Distribution and Programming Needs of the Inner-City: A Comparison of Resident and Community Leader Opinions in Lansing, Michigan.
- WILLIAM EDWARD MARTIN, Ph.D. B.A., Ed.M., State University of New York. Education. Major Professor: Norman Kagan, Professor. Thesis: The Relationship Between Selected Physiological and Psychological Reactions of Specific Personality Types to Simulated Emotional Encounters.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- LEONARDO MARTINEZ-HERNANDEZ, Ph.D. B.S., M.S., Stout State University.
Education. Major Professor: Lawrence Borosage, Professor.
Thesis: A Research Model for Curriculum Development and Evaluation in Occupational Education: Application to Mechanical Technology in Petroleum Industry of Venezuela.
- SCOTT RUSSELL MATTHEWS, Ph.D. B.A., Albion College; M.A., Michigan State University.
Education. Major Professor: Bob B. Winborn, Professor.
Thesis: An Investigation of Selected Premises of Carkhuff's Theory of Training Psychological Helpers.
- DAVID HENRY MAY, Ph.D. B.S., Portland State College.
Education. Major Professor: Richard McLeod, Associate Professor.
Thesis: A Descriptive Study of Selected Workshop Factors Affecting the Training and Support of Resource Personnel in a Science Curriculum.
- CHARLES LEROY McDONALD, Ph.D. B.S., M.S., Oklahoma State University.
Business Administration (Accounting). Major Professor: R. F. Salmonson, Professor.
Thesis: An Empirical Examination of Published Predictions of Future Earnings.
- ROBERT LEROY MCGINTY, Ph.D. B.S., Michigan State University; M.A., Western Michigan University.
Education. Major Professor: William M. Fitzgerald, Professor.
Thesis: The Effects of Four Methods of Instruction upon the Ability of Second and Third Grade Students to Derive Valid Logical Conclusions from Verbally Expressed Hypotheses.
- KENNETH JAMES MCKENZIE, Ph.D. B.S.A., University of Toronto; M.S., University of Guelph.
Agricultural Economics. Major Professor: Glenn L. Johnson, Professor.
Thesis: An Economic Analysis of Selected Agricultural Extension Programs in Colombia, South America.
- CAROLYN DOMMER MCKINNEY, Ph.D. B.S., M.A., Michigan State University.
Education. Major Professor: Beatrice Paolucci, Professor.
Thesis: Professional Role Perceptions of Michigan Home Economics Teachers.
- GEORGE PHILLIP MERK, Ph.D. B.S., Missouri School of Mines; M.S., University of Colorado.
Geology. Major Professor: Robert Ehrlich, Associate Professor.
Thesis: Provenance and Tectonic Inferences Concerning the Keweenaw Interflow Sediments of the Lake Superior Region.
- KATHLEEN JOYCE MIKAN, Ph.D. B.S., The Ohio State University; M.S., University of Colorado.
Education. Major Professor: Elwood E. Miller, Associate Professor.
Thesis: Development of a Classification Scheme of Pupil Questions Asked by Nursing Students Within a Self-Instructional Learning Environment.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

MICHAEL CHARLES MILLER, Ph.D.

B.A., M.S., Indiana University.
Botany and Plant Pathology. Major Professor: Robert G. Wetzel, Associate Professor.
Thesis: The Carbon Cycle in the Epilimnion of Two Michigan Lakes.

THOMAS JOHN MILLS, Ph.D.

B.S., M.S., Michigan State University.
Forestry. Major Professor: Robert S. Manthy, Associate Professor.
Thesis: An Econometric Analysis of Market Factors Determining Supply and Demand for Softwood Lumber.

CHRISTA MIRIANI, Ph.D.

Ph.B., University of Detroit; M.A., Michigan State University.
Education. Major Professor: Max R. Raines, Professor.
Thesis: The Impact of Structured Small-Group Experiences on the Behavioral Development and Group Interaction of Nursing Students.

MERLYN DOUGLAS MOORE, Ph.D.

A.B., Indiana University; M.S., Michigan State University.
Social Science. Major Professor: John H. McNamara, Professor.
Thesis: A Study of the Placement and Utilization Patterns and Views of the Criminal Justice Graduates of Michigan State University.

RICHARD BARNABA MOREAU, Ph.D.

B.S., Eastern Michigan University; M.S., Michigan State University.
Fisheries and Wildlife. Major Professor: Frank M. D'Itri, Assistant Professor.
Thesis: The Interaction of Linear Phosphates with Soluble and Particulate Calcium and Natural Colored Organic Acids in the Thunder Bay, Alpena, Michigan.

FRED WILLIAM MORGAN, JR., Ph.D.

B.S., Purdue University; M.B.A., Michigan State University.
Business Administration (Marketing). Major Professor: Donald J. Bowersox, Professor.
Thesis: A Simulated Sales Forecasting Model: A Build-Up Approach.

RICHARD E. MOSHER, Ph.D.

B. of P.Ed., University of British Columbia; M.A., University of Oregon.
Education. Major Professor: Philip L. Reuschlein, Professor.
Thesis: The Effects of an Objective-Centered, Sequential Program of Physical Education on the Academic Achievement and Intelligence of Elementary School-Aged Children.

LEE J. MULLALLY, Ph.D.

B.E., M.S.T., Wisconsin State University.
Education. Major Professor: Elwood E. Miller, Associate Professor.
Thesis: Comprehension of a Narrative Passage by Primary School Children as a Function of Listening Rate and Reading Comprehension Level.

MARGARET DEITRICH NATARELLA, Ph.D.

B.S., Pennsylvania State University; M.A., Michigan State University.
Education. Major Professor: Donald H. Nickerson, Associate Professor.
Thesis: A Survey of Media Center Personnel and School Policies that Relate to Students and Trade Books in Selected Michigan Elementary Schools.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- NICHOLAS JOSEPH NATARELLA, Ph.D. B.S., Pennsylvania State University; M.S., Michigan State University. Horticulture. Major Professor: Kenneth C. Sink, Associate Professor. Thesis: Biochemical and Chemotaxonomic Studies of *Petunia Hybrida* Hort. and Selected *Petunia* Species.
- WILLIAM ROBERT NICHOLAS, Ph.D. B.S., M.A., Central Michigan University. Education. Major Professor: Dale V. Alam, Professor. Thesis: Group Exploration of Educational Beliefs, Values and Interpersonal Relationships: A Descriptive Study.
- ROGER CORNELIUS NIEMEYER, Ph.D. B.S., M.A., Ball State University. Education. Major Professor: William W. Joyce, Professor. Thesis: Simulation-Gaming in Pre-Service Teacher Education: A Case Study.
- ALFEO MAUYA NIKUNDIWE, Ph.D. B.A., Andrews University; M.S., Michigan State University. Zoology. Major Professor: Martin M. Balaban, Professor. Thesis: The Ontogeny of Coordinated Limb Movements in Pre-Hatched Chicks: Effects of Central Nervous System Manipulations on the Frequency and Patterns of Movements.
- MELVIN ANDREW NYMAN, Ph.D. B.S., Ferris State College; M.S., Michigan State University. Mathematics. Major Professor: J. Marik, Professor. Thesis: On a Generalization of Haar Series.
- HARVEY OAKLANDER, Ph.D. B.A., Brooklyn College; M.A., Michigan State University. Psychology. Major Professor: Gary E. Stollak, Associate Professor. Thesis: Self-esteem, Diversity of Backgrounds, and Clarity of Communication in Engaged Couples.
- DONALD DANIEL OELSLIGLE, Ph.D. B.S., M.S., University of Nebraska. Soil Science. Major Professor: Eugene C. Doll, Professor. Thesis: Potassium Release Characteristics of Selected Peruvian Soils.
- GUSTAV ATTA OFOSU, Ph.D. B.A., Inter-American University; M.S., Atlanta University. Zoology. Major Professor: S. K. Aggarwal, Associate Professor. Thesis: The Fine Structural Localization and Biochemical Assay of Non-Specific Alkaline and Acid Phosphatases in the Developing Intestines of the Mouse from Birth to Adulthood.
- KIOUMARS PARYANI, Ph.D. E.E., Tehran Institute of Technology; M.S., Michigan State University. Electrical Engineering. Major Professors: Robert O. Barr and J. B. Ramsey, Associate Professors. Thesis: Optimal Control of Linear Discrete Macro-Economic Systems.
- MICHAEL GARY PASTERNAK, Ph.D. B.A., M.A., Michigan State University. Education. Major Professor: Dale V. Alam, Professor. Thesis: An Exploration of the Educational Belief System Process as a Means for Helping Educators Formulate Curriculum Decisions.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- FLOYD A. PATTERSON, Ph.D. B.M.E., Oklahoma City University; M.A., University of Oklahoma. History. Major Professor: Richard E. Sullivan, Professor. Thesis: British Continuity in One Area of Early Anglo Saxon Worcestershire.
- PETER JOHN PIVERONUS, JR., Ph.D. A.B., M.A., Boston University. History. Major Professor: Marjorie E. Gesner, Professor. Thesis: The Life and Career of Sir Anthony St. Leger of Ulcombe, Kent (1496?-1559), Lord Deputy of Ireland: A Biographical Study in the Evolution of Early Tudor Anglo-Irish Policy.
- MELVIN L. POAGE, Ph.D. B.S., M.S., University of Denver; M.S., University of Colorado. Education. Major Professor: William M. Fitzgerald, Professor. Thesis: The Use of a Teacher-Directed Laboratory to Individualize Instruction for Remedial Mathematics in College Courses.
- CRAIG KENNETH POLITE, Ph.D. B.A., University of Toledo; M.A., Michigan State University. Psychology. Major Professor: Eugene Jacobson, Professor. Thesis: Control: The Double-Bind in Organizational Power.
- JOHN WALTER PRELESNIK, Ph.D. B.S., M.A., Michigan State University. Social Science. Major Professor: John H. McNamara, Professor. Thesis: An Investigation of the Inmate Liaison Role in the Informal Communications Structure in a Maximum Security Prison Psychiatric Clinic.
- LEIGHTON ADAMS PRICE, Ph.D. B.A., Haverford College; M.A., Pennsylvania State University. Psychology. Major Professor: Frederic R. Wickert, Professor. Thesis: Personality Characteristics and Consumer-Product Perceptions: Methodological Advances and Empirical Verification of a Cognitive Model.
- CARL JOHN QUERTERMUS, JR., Ph.D. B.S., M.S., Illinois State University. Zoology. Major Professor: James C. Braddock, Professor. Thesis: Prior Experience as a Factor in Habitat Selection of the Cichlid Fish *Tilapia Mossambica*.
- AUBREY RADCLIFFE, Ph.D. B.A., B.S., Youngstown University; M.A., Michigan State University. Education. Major Professor: Floyd G. Parker, Professor. Thesis: A Guttman Facet Analysis of the Racial Attitude of Black and White Adults Toward the Opposite Race.
- JAGANMOHAN LINGAMNENI RAO, Ph.D. B.A., M.S., Andhra University. Communication. Major Professor: Everett M. Rogers, Professor. Thesis: Communication and Modernization in Three Indian Villages: The Influence of Status Inconsistency.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- ALFRED THOMAS REED, Ph.D. B.S., M.S., University of Illinois.
Education. Major Professor: Wayne D. Van Huss, Professor.
Thesis: Succinic Dehydrogenase and Motor End-Plate Cholinesterase in Chronically Exercised Rat Skeletal Muscle.
- SULAIMAN TUMEH RIHANI, Ph.D. B.A., University of Jordan; M.A., Michigan State University.
Education. Major Professor: Bob B. Winborn, Professor.
Thesis: The Comparative Effects of Implosive Therapy and Systematic Desensitization Upon Counselor Trainees' Anxiety and Ability to Communicate Emotions.
- WILLARD EVERETT ROBERSON, Ph.D. B.A., Fresno State College; M.A., California Polytechnic College.
Education. Major Professor: Richard L. Featherstone, Professor.
Thesis: Selected Personal Attitudes of Inner-City Teachers Toward Low-Income Communities in Relation to Disadvantaged Children.
- LAURA R. ROEHLER, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Patricia J. Cianciolo, Professor.
Thesis: A Comparison of Self-Pacing Versus Instructor-Pacing as They Affect the Achievement and Attitudes of Preservice Reading Teachers.
- JOSE ISRAEL ROMERO, Ph.D. B.S., M.S., University of Puerto Rico.
Entomology. Major Professor: Robert F. Ruppel, Professor.
Thesis: Relationships Between Tarnished Plant Bug and Alfalfa Plant Bug (Hemiptera: Miridae) on Alfalfa in Michigan.
- KAREN KAY ROWE, Ph.D. B.A., M.A., Western Michigan University.
Education. Major Professor: Norman Kagan, Professor.
Thesis: A 50-Hour Intensified IPR Training Program for Counselors.
- JAVAD MIRMOHAMMAD SADEGHI, Ph.D. B.S., Pahlavi University; M.S., Michigan State University.
Agricultural Economics. Major Professor: Robert D. Stevens, Associate Professor.
Thesis: An Economic Analysis of Alternative Corn Irrigation Systems in Southwest Michigan.
- DEAN EDWARD SANDERS, Ph.D. B.S., Western Michigan University; M.S., Michigan State University.
Mathematics. Major Professor: Edward C. Ingraham, Associate Professor.
Thesis: Epimorphisms and Subalgebras of Finitely Generated Algebras.
- CHARLES WALTER SCHEEF, Ph.D. A.B., Heidelberg College; M.A., Michigan State University.
English. Major Professor: Sam S. Baskett, Professor.
Thesis: The Attitudes Toward Slum Life in the American Popular Novel, 1890-1910.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- CHARLES RAYMOND SCHINDLER, Ph.D. B.S., Virginia Polytechnic Institute; M.S., Michigan State University.
Education. Major Professor: Frank H. Blackington, III, Professor.
Thesis: A Philosophical Analysis of Ivan Illich's Construct "Deschooling Society" and Related Terms.
- JOERG SCHOENHERR, Ph.D. B.S., Technische Universitat; M.S., Michigan State University.
Horticulture. Major Professor: Martin J. Bukovac, Professor.
Thesis: Surface and Electrochemical Properties of Plant Cuticles.
- LEON JOSEPH SCHOFIELD, JR., Ph.D. B.A., Clark University; M.A., Michigan State University.
Psychology. Major Professor: Joseph Reyher, Professor.
Thesis: Thematic Productions Under Hypnotically Aroused Conflict in Age Regressed and Waking States—Using the "Real-Simulator" Design.
- BETTY LOUISE SCHROEDER, Ph.D. B.A., M.S., Wisconsin State University.
Education. Major Professor: Elaine F. Uthe, Assistant Professor.
Thesis: The Design, Development, and Validation of a Secretarial In-Basket to Evaluate Decision Making in the Setting of Work Priorities.
- JAMES ALEC SENDO, Ed.D. B.S., Valparaiso University; M.S., Indiana University.
Education. Major Professor: William A. Mann, Professor.
Thesis: A Study of the Potential Use of the Mann Attitude Inventory in the Selection of Police Recruits.
- CAROL LEE SHILKETT, Ph.D. A.B., University of Redlands; M.A., Michigan State University.
English. Major Professor: John A. Yunk, Professor.
Thesis: "Chaucerian Realism": A Study of Mimesis in the Canterbury Pilgrimage.
- RONALD LEE SHUMACK, Ph.D. B.S., M.S., Auburn University.
Horticulture. Major Professor: William H. Carlson, Assistant Professor.
Thesis: Perceived Technical Ornamental Horticulture Training Adequacies and Needs of Secondary Vocational Teachers.
- AMARJIT SINGH, Ph.D. B.S., U. P. Agriculture University; M.E., University of Illinois.
Education. Major Professor: David K. Heenan, Professor.
Thesis: Self-Concept of Ability and School Achievement of Seventh Grade Students in Newfoundland: A Symbolic Interactionist Approach.
- WAYNE LEON SMITH, Ph.D. B.S., Michigan State University; M.S., University of Montana.
Fisheries and Wildlife. Major Professor: Eugene W. Roelofs, Professor.
Thesis: The Dynamics of Brown Trout (*Salmo trutta*) and Sculpin (*Cottus* spp.) Populations as Indicators of Eutrophication.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

DELWYN LEE SNELLER, Ph.D.

A.B., Hope College; M.A., Michigan State University.
English. Major Professor: C. David Mead, Professor.
Thesis: Popular and Prophetic Traditions in the Poetry of John Greenleaf Whittier.

THOMAS WAYNE SPIERLING, Ph.D.

B.A., M.A., Michigan State University.
Education. Major Professor: Norman Kagan, Professor.
Thesis: Success or Failure in Psychotherapy: The Effects of Comparable Client-Therapist and Client-Significant Other Interaction Patterns upon the Process and Outcome of Psychotherapy.

AARON LESLIE STEENBERGEN, Ph.D.

B.A., M.A., State College of Iowa.
Education. Major Professor: John W. Hanson, Professor.
Thesis: A Developmental Paraprofessional Program for the Education of Future Teachers Enrolled in the Two Year-Community Junior College.

DONALD LEE STEVENS, Ph.D.

B.A., M.B.A., Michigan State University.
Business Administration (Finance). Major Professor: Myles S. Delano, Professor.
Thesis: A Multivariate Analysis of Financial Characteristics of Acquired Firms in Industrial Mergers.

GERALD L. STONE, Ph.D.

A.B., University of California at Los Angeles; M.D., Princeton Theological Seminary; M.A., Michigan State University.
Education. Major Professor: William C. Hinds, Associate Professor.
Thesis: The Effect of Fidelity of Simulation on Counselor Training.

JAMES JOHN SUMMARY, Ph.D.

B.A., Southern Illinois University; M.S., Michigan State University.
Biochemistry. Major Professor: Hans A. Lillevik, Associate Professor.
Thesis: Studies on Angiotensin Converting Enzyme.

TUNG-HSUN SUN, Ph.D.

B.A., M.A., National Taiwan University; M.A., Michigan State University.
History. Major Professor: Douglas T. Miller, Associate Professor.
Thesis: Some Interpretations of the Abolition Movement.

CALVIN JAMES SWANK, Ph.D.

B.S., Florida State University; M.S., Michigan State University.
Education. Major Professor: Eldon R. Nonnamaker, Professor.
Thesis: A Descriptive Analysis of Criminal Justice Doctoral Programs in the United States.

LOUIS JOSEPH TASSE, Ph.D.

B.A., Heidelberg College; M.A., Eastern Michigan University.
Education. Major Professor: Howard W. Hickey, Associate Professor.
Thesis: A Study of the Key Elements of Agency-School Cooperation and their Relationship to Community Education.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- WILLIAM HENRY THOMAS, Ph.D. B.A., North Carolina College; M.Ed., Wayne State University.
Education. Major Professor: Carl H. Gross, Professor.
Thesis: An Assessment of Booker Taliaferro Washington's Educational Influence in the United States and West Africa Between the Years 1880 and 1925.
- NGUYEN DUC TIEN, Ph.D. Licence, University of Saigon; M.A., Michigan State University.
Geography. Major Professor: Lawrence M. Sommers, Professor.
Thesis: Migration and Spatial Adjustment of Selected Minority Groups: A Case Study of Acculturation in Kalamazoo, Michigan.
- ROBERT HAMMOND TINKER, Ph.D. B.A., M.A., Michigan State University.
Psychology. Major Professor: John R. Hurley, Professor.
Thesis: Dominance in Marital Interaction.
- SIGRID ANN TROMBLEY, Ph.D. B.S., Indiana University; M.S., Purdue University.
Education. Major Professor: Elwood E. Miller, Associate Professor.
Thesis: An Assessment of Attitudes Expressed Toward Instructional Development by Three Groups as a Function of (1) Teaching Level and (2) Sex.
- EDWARD CARL TURNER, Ph.D. B.S., M.S., State University of New York.
Education. Major Professor: William K. Durr, Professor.
Thesis: A Comparative Study of the Effects of a Motor-Perceptual Training Program on First-Grade Reading Achievement of Children in Selected Urban and Suburban Schools.
- ROBERT LAWRENCE TURNER, Ph.D. B.A., Albion College.
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.
Thesis: Secondary Kinetic Deuterium Isotope Effects in the Base Hydrolysis of Alkyl α -Naphthoates.
- DON LEE VAN OSTENBERG, Ph.D. A.B., Calvin College; M.A., Michigan State University.
Education. Major Professor: James R. Engelkes, Assistant Professor.
Thesis: A Video-Tape Presentation of Desirable Work Behaviors to the Clients of a Sheltered Work Evaluation and Training Program.
- LAWRENCE EARLE VEENSTRA, Ph.D. A.B., Calvin College; M.S., University of Michigan.
Education. Major Professor: George R. Myers, Professor.
Thesis: An Investigation Into Relationships Between Student Teaching and Pupil Motivation, as Perceived by Supervising Teachers, Student Teachers, Administrators, and Pupils.
- EARL DONALD WALKER, Ph.D. B.S., The Ohio State University; M.A., Michigan State University.
Psychology. Major Professor: Robert L. Raisler, Assistant Professor.
Thesis: The Acquisition and Reduction of Responding in Rats to Auditory Stimuli of Different Intensities.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

JESS MORGAN WALKER, Ph.D.	B.S., M.A., University of Utah. Education. Major Professor: Howard W. Hickey, Associate Professor. Thesis: A Comparative Study of Personalized Reading in an Open-Learning Environment and Basal Text Reading in a Traditional-Learning Environment Through Early Elementary Pupil Achievement.
DAVID HENRY WALTERS, Ph.D.	B.M., M.M., Michigan State University. Music. Major Professor: Robert G. Sidnell, Associate Professor. Thesis: The Development of Simulated Critical Teaching Situations for Use in Instrumental Music Teacher Education.
WILLIAM AUGUSTUS WARD, Ph.D.	B.A., M.S., Clemson University. Agricultural Economics. Major Professor: A. Allan Schmid, Professor. Thesis: Appraisal of Alternative Models for Estimation of Indirect Employment and Profit Gains Resulting from Public Water Project Investment.
GRANT DEWITT WELLS, Ph.D.	B.S., Michigan State University; M.S., Cornell University. Agricultural Engineering. Major Professor: Merle L. Esmay, Professor. Thesis: Simulation of In-House Drying of Chicken Excreta.
KENNETH ALLEN WENNER, Ph.D.	B.S., M.S., The Ohio State University. Resource Development. Major Professor: Daniel E. Chappelle, Professor. Thesis: A Computer Method for Interpretation of Natural Resource Data for Four Types of Land Uses.
EVERETT JOSEPH WILLIAMS, Ph.D.	B.A., M.A., Xavier University. Education. Major Professor: Joseph H. McMillan, Professor. Thesis: A Case Study of a Response to an Urban Crisis: The Pontiac Human Resources Center.
JACOB C. WINTERS, Ph.D.	B.A., University of Manitoba; M.A., Northern Michigan University. Education. Major Professor: Stanley E. Hecker, Professor. Thesis: A Comparative Study of the Behavior and Perception of Inter-University and Mott Institute Trained Directors of Community Education.
WILLIAM DEVUE WOOLF, Ph.D.	B.Com., University of Alberta. Education. Major Professor: Peter G. Haines, Professor. Thesis: A Comparison of Selected Self-Concepts and Other Characteristics of Secondary Students Enrolled in Utah Senior Vocational and Non-Vocational Classes.
DALE EUGENE WORK, Ph.D.	B.S., Harding College. Chemistry. Major Professor: Harry A. Eick, Professor. Thesis: The Vaporization Thermodynamics of Some Lanthanide Oxide Bromides.
WAYNE ALVA YODER, Ph.D.	B.A., Goshen College. Zoology. Major Professor: T. Wayne Porter, Professor. Thesis: Acarina (Arthropoda: Arachnida) Associated with Selected Michigan Silphidae (Coleoptera).

SCHOOL FOR ADVANCED GRADUATE STUDIES

EDUCATIONAL SPECIALIST DEGREES — GRADUATED SUMMER TERM, 1972

LOIS M. BAUER, Ed.S.	B.A., State College of Iowa; M.A., Michigan State University. Education. Major Professor: Melvin C. Buschman, Professor.
WILLIAM JAMES BLACKBURN, Ed.S.	A.B., University of Detroit; M.A., Michigan State University. Education. Major Professor: Carl W. Brautigam, Associate Professor.
ANDREW CORSI, Ed.S.	B.S., M.A., University of Michigan. Education. Major Professor: William A. Mann, Professor.
MORRIS CHRISTIAN CRUM, Ed.S.	B.A., Adams State College; M.A., Colorado College. Education. Major Professor: Troy L. Stearns, Professor.
ALEXANDER JOSEPH GALLIGAN, Ed.S.	B.A., M.A., Michigan State University. Education. Major Professor: Samuel A. Moore, II, Professor.
BERTRAM BERNARD GREEN, Ed.S.	B.A., M.A., Michigan State University. Education. Major Professor: Keith P. Anderson, Associate Professor.
DANIEL ELLIS HUGHES, Ed.S.	B.S., Tennessee State College; M.A., Wayne State University. Education. Major Professor: Charles A. Blackman, Professor.
JOSEPH PATRICK KANE, Ed.S.	B.A., M.S., Hofstra University. Education. Major Professor: George R. Myers, Professor.
JANET LOUISE LANDSBERG, Ed.S.	B.S., Wayne State University; M.A., University of Michigan. Education. Major Professor: Wilfred Veenendaal, Associate Professor.
RICHARD JAMES MINARIK, Ed.S.	B.S., Western Michigan University; M.A., Michigan State University. Education. Major Professor: Harvey F. Clarizio, Associate Professor.
SANDRA SCHRICKER NEGLEY, Ed.S.	B.A., M.A., Andrews University. Education. Major Professor: James E. Snoddy, Associate Professor.
LORNA JEAN PLANTE, Ed.S.	B.S., University of Denver; M.A., Oakland University. Education. Major Professor: Harvey F. Clarizio, Associate Professor.
BARBARA ALLISON REED, Ed.S.	B.A., M.S., State University of New York. Education. Major Professor: Richard L. Marquard, Associate Professor.
LEON RIVERS, Ed.S.	B.S., M.A., Eastern Michigan University. Education. Major Professor: Troy L. Stearns, Professor.

SCHOOL FOR ADVANCED GRADUATE STUDIES

EDUCATIONAL SPECIALIST DEGREES — GRADUATED SUMMER TERM, 1972 (Continued)

- MARY-JANE MONICA SOUTHARD, Ed.S. B.S., Eastern Michigan University; M.A., Michigan State University.
Education. Major Professor: Charles A. Blackman, Professor.
- CLARICE ELIZABETH SPAANS, Ed.S. B.A., M.A., Michigan State University.
Education. Major Professor: William V. Hicks, Professor.
- WANDA EILEEN VANDER NAT, Ed.S. B.A., Calvin College; M.A., Michigan State University.
Education. Major Professor: Harvey F. Clarizio, Associate Professor.
- JACQUES ANTON VAN PELT, Ed.S. B.Ed., McGill University; M.A., Michigan State University.
Education. Major Professor: Charles A. Blackman, Professor.

DIPLOMAS FOR ADVANCED GRADUATE STUDY — GRADUATED SUMMER TERM, 1972

- CHARLES HOWARD FAULKNER, D.A.G.S. A.B., Sacramento State College; M.A., Michigan State University.
French, Language and Literature. Major Professor: Herbert Josephs,
Professor.
- TERRY L. GOTTS, D.A.G.S. B.A., Kalamazoo College; M.A., Michigan State University.
Statistics. Major Professor: Robert G. Staudte, Jr., Assistant Professor.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972

- BASHIR AHMAD, Ph.D. B.A., M.A., Government College.
Agricultural Economics. Major Professor: Lawrence W. Witt, Professor.
Thesis: Farm Mechanization and Agricultural Development: A Case Study of the Pakistan Punjab.
- RAIS UDDIN AHMED, Ph.D. B.A., E. P. Agricultural Institute; M.S., American University at Beirut.
Agricultural Economics. Major Professor: Glenn L. Johnson, Professor.
Thesis: Economic Analysis of Tubewell Irrigation in Bangladesh.
- MADELYN JANE ALBRECHT, Ph.D. B.Th., Northern Baptist Theological Seminary; M.A., Michigan State University.
Education. Major Professor: J. Geoffrey Moore, Professor.
Thesis: Modern African Literature as a Resource for Enriching the Educational Experience in the Social Science Curricula for Secondary Education in Zaire.
- BERNARD DONALD ALKIRE, Ph.D. B.S., Michigan Technological University; M.S., Michigan State University.
Civil Engineering. Major Professor: Orlando B. Andersland, Professor.
Thesis: Mechanical Properties of Sand-Ice Materials.
- CHARLES KELLER ALLEN, Ph.D. B.S., Virginia Polytechnic Institute and State University; M.S., Michigan State University.
Animal Husbandry. Major Professor: Hugh E. Henderson, Professor.
Thesis: Ammonium Salts of Organic Acids as Sources of Crude Protein for Feedlot Cattle.
- THOMAS MARSHALL AMOS, JR., Ph.D. B.S., Hampden-Sydney College; M.S., Michigan State University.
Physics. Major Professor: Aaron I. Galonsky, Professor.
Thesis: Neutron Yields from Proton Bombardment of Thick Targets.
- DOUGLAS KROULIK ANDERSON, Ph.D. B.A., University of Texas; M.S., University of Houston.
Physiology. Major Professor: Robert K. Ringer, Professor.
Thesis: Study of the Avian Cerebrospinal Fluid Using Brain Ventricular Perfusion.
- JOHN ROBERT ANDERSON, Ph.D. B.S., M.A., University of Minnesota.
Education. Major Professor: Julian R. Brandou, Professor.
Thesis: Classroom Interaction, Academic Achievement and Creative Performance in Sixth Grade Classrooms.
- DEVON FRANKLIN ANDRUS, Ph.D. B.S., Utah State University; M.S., Iowa State University.
Dairy. Major Professor: Lon D. McGilliard, Professor.
Thesis: Selection of Dairy Cattle for Overall Excellence.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- ALFRED SAMUEL ARKLEY, Ph.D. B.A., Harvard University; M.A., Columbia University. Political Science. Major Professor: Frank A. Pinner, Professor. Thesis: The Relation of Organizational Climate Factors of Low Socio-Economic Status Elementary Schools to Political Orientations of Fifth-Grade Students.
- THOMAS FRED ARMSTRONG, Ph.D. B.S., University of Georgia; M.S., Michigan State University. Crop Science. Major Professor: William F. Meggitt, Professor. Thesis: Factors Affecting the Response of Yellow Nutsedge (*Cyperus Esculentus* L.) to 2-Chloro-2',6'-Diethyl-N-(Methoxymethyl)Acetanilide (Alachlor).
- PAUL BANKIT, Ph.D. B.G.E., University of Omaha; M.B.A., Michigan State University. Business Administration (Transportation). Major Professor: Frank H. Mossman, Professor. Thesis: Characterization of the Force Variable Systems Network Applications Within a Socio-Economic Environment.
- THOMAS GORDON BARNES, Ph.D. B.A., Aquinas College; M.A., Michigan State University. Education. Major Professor: Philip A. Cusick, Assistant Professor. Thesis: An Exploratory Study of Parents and Public School Educators on the Issue of Cross-District Busing in a Suburban District.
- FREDRICA KATHRYN BARTZ, Ph.D. A.B., University of Michigan; A.M., Rackham Graduate School. English. Major Professor: Arthur Sherbo, Professor. Thesis: Half Beast: Image, Theme, and Satirical Purpose in the Novels of Tobias Smollett.
- RONALD KENT BASS, Ph.D. B.A., Jacksonville University; M.Ed., University of Georgia. Education. Major Professor: Paul W. F. Witt, Professor. Thesis: An Exploratory Study of Procedures for Measuring and Mapping Qualitative Symbolic Orientations.
- HARRY CLARK BEALL, Ph.D. B.S., M.S., Oklahoma University. Biophysics. Major Professor: Alfred Haug, Associate Professor. Thesis: Kinetic Studies of Nanosecond, Microsecond, and Millisecond Components of Delayed Light Emission from the Algae *Scenedesmus Obliquus* with a Newly Developed Photon Counting Apparatus.
- PAUL MICHAEL BECKWITH, Ph.D. B.A., University of Minnesota. Chemistry. Major Professor: Stanley R. Crouch, Associate Professor. Thesis: Automated Stopped-Flow Instrumentation and Fast Reaction Rate Studies of the Formation of 12-Molybdophosphoric Acid.
- JAMES ROBERT BEKKERING, Ph.D. B.A., Hope College; M.A., Michigan State University. Education. Major Professor: Eldon R. Nonnamaker, Professor. Thesis: A Study of Education Related Expenses Incurred by Full-Time Undergraduate Students Attending Representative Colleges and Universities in Michigan.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- LUIS RAMIRO BELTRAN, Ph.D. M.A., Michigan State University.
Communication. Major Professor: David K. Berlo, Professor.
Thesis: Communication in Latin America: Persuasion for Status Quo or for National Development?
- GORDON DENNIS BERGMAN, Ph.D. B.A., McMaster University; M.Ed., Toronto University.
Education. Major Professor: Charles V. Mange, Professor.
Thesis: A Systems Approach to Educational Planning Applied to Special Education.
- ERIC S. BERKE, Ph.D. B.A., University of Rochester.
Microbiology and Public Health. Major Professor: Harold L. Sadoff, Professor.
Thesis: Characterization of the Deoxyribonucleic Acid of Vegetative Cells of *Azotobacter Vinelandii*.
- DILIP KUMAR BHOWMIK, Ph.D. B.S., M.S., College of Agriculture, India.
Communication. Major Professor: Everett M. Rogers, Professor.
Thesis: Differences in Heterophily and Communication Integration Between Modern and Traditional Indian Villages in Two Types of Dyadic Encounter.
- ALLAN KARL BIRD, Ph.D. B.A., M.A., University of Utah.
Audiology and Speech Sciences. Major Professor: Leo V. Deal, Professor.
Thesis: The Role of Consonant Constrictives and Transitions in the Perception of Ongoing Speech.
- SARAH LU FLOWERS BOLING, Ph.D. B.S., University of Mississippi; M.A., Michigan State University.
Education. Major Professor: Samuel S. Corl, Associate Professor.
Thesis: A Case Study and Evaluation of Two Weekend Human Relations Laboratories Involving Preservice Teachers and Secondary School Students.
- JOEL RUTH BOLLINGER, Ph.D. B.A., Albion College; M.A., Michigan State University.
Spanish, Language and Literature. Major Professor: Donald A. Yates, Professor.
Thesis: El Arte Narrativo de Luis Spota: 1947-1968.
- DIANE HUISINGA BORCHELT, Ph.D. B.A., Southern Illinois University; M.A., Michigan State University.
Psychology. Major Professor: Dozier W. Thornton, Associate Professor.
Thesis: The Relationship of Several Nonverbal Behaviors to Psychological Distance.
- WALTER MCCREE BOSTON, JR., Ph.D. B.A., Rockford College; M.A., University of Michigan.
History. Major Professor: Robert E. Wall, Jr., Associate Professor.
Thesis: A Study of Presbyterianism in Colonial New England.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- DARYL MYRON BRINK, Ph.D. B.S., Calvin College; M.A., Western Michigan University.
Mathematics. Major Professor: Gerald D. Taylor, Professor.
Thesis: Tchebycheff Approximation by Reciprocals of Polynomials on $[0, \infty)$.
- CHARLES GEORGE BROCKUS, Ph.D. B.S., M.S., University of Michigan.
Systems Science. Major Professor: James A. Resh, Associate Professor.
Thesis: A Unified Treatment of History Dependency in Differential Systems.
- GALEN KENT BROWN, Ph.D. B.S., Michigan State University; M.S., University of California.
Agricultural Engineering. Major Professor: J. Ben Holtman, Associate Professor.
Thesis: Mechanical Harvest System Simulation and Design Criteria for Processing Apples.
- WALTER SHAWVER BROWN, Ph.D. B.A., M.Ed., University of Washington.
Education. Major Professor: Joe L. Byers, Professor.
Thesis: The Potential of the Free Recall Task as a Means of Assessing Student Acquisition of Course Related Organization.
- DENIS JOE BUCKLEY, Ph.D. B.S., M.S., University College, Ireland.
Food Science. Major Professor: James F. Price, Associate Professor.
Thesis: Proteolytic Enzymes Produced by *Pseudomonas Perolens*; Their Character and Action on Muscle Proteins.
- WILLIAM THAYRE BUCKLIN, Ph.D. B.S., Montana State College; M.A., Michigan State University.
Political Science. Major Professor: Edward E. Azar, Associate Professor.
Thesis: Regional Economic Cooperation in Southeast Asia: 1945-1969.
- JAMES ALBERT BURCHYETT, Ph.D. B.S., Southeast Missouri State College; M.A., George Peabody College.
Education. Major Professor: Richard L. Featherstone, Professor.
Thesis: A Comparison of the Effects of Nongraded, Multi-Age, Team Teaching VS. The Modified Self-Contained Classroom at the Elementary School Level.
- WILLIAM ARTERBURN BURDETTE, Ph.D. B.S., M.S., Michigan State University.
Computer Science. Major Professor: Carl V. Page, Associate Professor.
Thesis: Linguistically Assisted Recognition of Patterns from Their Multiple Translational Encodements.
- JOANNE MARY BURNS, Ph.D. B.S., St. Norbert College; M.A., Michigan State University.
Education. Major Professor: Laurine E. Fitzgerald, Professor.
Thesis: An Exploratory Study of Community/Junior College Transfer Students' Expressed Needs for and Perceptions of Selected Student Personnel Services.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

ROBERT NORRIS CARROW, Ph.D.

B.S., M.S., Michigan State University.
Soil Science. Major Professor: Paul E. Rieke, Professor.
Thesis: Soil Factors Influencing Arsenic Soil Tests and Growth of Selected Turfgrasses.

GUILLERMO IGNACIO
CASTILLO-FELIÚ, Ph.D.

B.A., M.A., Michigan State University.
Spanish, Language and Literature. Major Professor: Donald A. Yates, Professor.
Thesis: Marginalidad Y Perspectivismo en la Obra de Jose Donoso.

DAVID ALAN CASTILLON, Ph.D.

B.S., University of Missouri; M.A., Northwestern University.
Geography. Major Professor: Harold A. Winters, Professor.
Thesis: The Relationships Between Morphostratigraphy, Rock Stratigraphy and Aspects of Till Fabric in Central Illinois.

FRANK KANG CHI, Ph.D.

B.S., Chung Yuan College; M.S., University of South Dakota.
Chemistry. Major Professor: George E. Leroi, Professor.
Thesis: Vibrational Spectra of Diazopropyne and its Photolysis Product: The Propargylene Radical.

THEODOSIOS CHRISTOS
CHRISTODOULIDIS, Ph.D.

B.S., Athens University.
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.
Thesis: Factors Affecting Asymmetric Induction in Additions to 2,3-Dimethylbutanal and 3,4-Dimethyl-2-Pentanone.

MICHAEL NEIL CONNOLLY, Ph.D.

B.A., M.A., Michigan State University.
Education. Major Professor: Stanley P. Wronski, Professor.
Thesis: Students' and Teachers' Opinions of the Existing Programs for the Study of Black Americans in Michigan High School Social Studies Curriculums.

RICHARD E. COOPER, Ph.D.

B.A., Hiram College; M.A.T., Michigan State University.
Education. Major Professor: Glenn D. Berkheimer, Associate Professor.
Thesis: A Study of the Science Curriculum Improvement Study Resource Personnel Workshop Participants to Determine the Relationship Between Selected Factors and Subsequent Participant Activity.

PETER EMDON CORNWELL, Ph.D.

B.S., University of Rhode Island; M.S., Michigan State University.
Mathematics. Major Professor: David Yen, Professor.
Thesis: Variational Problem and Green's Functions for the Improved Theory of Elastic Plates.

MALCOLM RUPERT CUTLER, Ph.D.

B.S., University of Michigan; M.S., Michigan State University.
Resource Development. Major Professor: Milton H. Steinmueller, Professor.
Thesis: A Study of Litigation Related to Management of Forest Service Administered Lands and its Effect on Policy Decisions. Part II: A Comparison of Four Cases.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- ARTICE MONROE DAVIS, Ph.D. B.S., Louisiana State University; M.S., Massachusetts Institute of Technology.
Electrical Engineering. Major Professor: Robert O. Barr, Associate Professor.
Thesis: Synthesis of a State Model for Hysteretic Devices.
- JACK E. DAWSON, Ph.D. B.A., Stetson University; M.A., Michigan State University.
Psychology. Major Professor: Lawrence A. Messe, Associate Professor.
Thesis: Toward a More General Theory of Leadership Effectiveness.
- STEVEN KROGH DERR, Ph.D. B.S., Purdue University; M.S., Michigan State University.
Entomology. Major Professor: Matthew J. Zabik, Associate Professor.
Thesis: Biologically Active Compounds in the Aquatic Environment: A Study of Two Environmental Contaminants, DDE and Aroclor 1254, on the Aquatic Midge, *Chironomus tentans*.
- LAMONT DALE DIRKSE, Ed.D. A.B., Hope College; M.A., Northwestern University.
Education. Major Professor: Calhoun C. Collier, Professor.
Thesis: A Survey of Curricular Practices in Selected Elementary Schools in Michigan That Have Adopted the Non-Graded Concept.
- PAUL STANLEY EASTMAN, Ph.D. B.S., St. Olaf College; M.S., Michigan State University.
Physics. Major Professor: Gerald A. Smith, Professor.
Thesis: Antiproton Deuteron Interactions from 1.60 to 2.90 GeV/c.
- THOMAS C. EDENS, Ph.D. B.S., M.A., Western Michigan University; M.A., Michigan State University.
Economics. Major Professor: Wolfgang P. Strassmann, Professor.
Thesis: Fluctuations in Foreign Exchange Reserves and in the Volume of Construction: The Similarity Between Industrialized and Non-Industrialized Countries in 1870-1914 and Their Divergence in 1955-1968.
- CHARLES STEWART ELLIOTT, Ph.D. B.M.E., General Motors Institute; M.S., Indiana University.
Education. Major Professor: Walter F. Johnson, Professor.
Thesis: Student Organization Advisors in Higher Education: Current Trends and Practices at Selected Institutions in Michigan.
- GLENN ROBERT ELLIOTT, Ph.D. B.A., Grinnell College.
Chemistry. Major Professor: George E. Leroi, Professor.
Thesis: A Raman Study of Crystalline Ethylenes and a Determination of Their Structure Through Model Calculations of the Lattice Region.
- ELFRIEDE A. M. ENGEL, Ph.D. B.A., Michigan State University; M.A., University of Chicago.
Education. Major Professor: Frank H. Blackington, III, Professor.
Thesis: Metaphysical and Ethical Implications of Deterministic Behaviorism; A Critique of the Technological Ideology of B. F. Skinner.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- RUSSEL WINTON ERICKSON, Ph.D. B.S., M.S., University of Minnesota.
Dairy. Major Professor: Clinton E. Meadows, Professor.
Thesis: An Analysis of High and Average Milk Production Dairy Farms.
- FRANCIS ASHLEY ESCH, Ph.D. B.A., Hillsdale College; M.Ed., Wayne State University.
Education. Major Professor: Perry E. Lanier, Associate Professor.
Thesis: Primary School Achievement and Behavioral Age.
- ENEFIOK ESIENUDO ESSIEN, Ph.D. B.S., University of Nigeria; M.B.A., M.A., Michigan State University.
Resource Development. Major Professor: Raleigh Barlowe, Professor.
Thesis: Economics of Public Resource Allocation: A Quantitative Analysis of the Michigan Recreation Bond Program.
- GROSVENOR RUSSELL FATTIC, Ph.D. B.A., M.A., Andrews University.
English. Major Professor: Arnold Williams, Professor.
Thesis: Mankind: An Edition of the Fifteenth-Century Morality Play.
- ELTJEN JOHN FLIKKEMA, Ph.D. A.B.Ed., Calvin College; M.A., Michigan State University.
German, Language and Literature. Major Professor: Raimund Belgardt, Professor.
Thesis: The Function of the Death Motif in the Works of Heinrich von Kleist.
- ARTHUR MILTON FORD, JR., Ph.D. B.A., Syracuse University; M.A., Wayne State University.
Psychology. Major Professor: Donald L. Grummon, Professor.
Thesis: Some Correlates of Black Consciousness, Internal-External Control, and Family Ideology Among Afro-American College Students.
- NICHOLAS STEVEN FORD, Ph.D. B.S., M.S., Michigan State University.
Mathematics. Major Professor: Edward C. Ingraham, Associate Professor.
Thesis: Inertial Subalgebras of Algebras Separable over their Centers.
- STANLEY HAIM FOX, Ph.D. B.A., Williams College; M.S., Michigan State University.
Physics. Major Professor: Sam M. Austin, Professor.
Thesis: $^{14}\text{N}(\text{P},\text{P}')$ at 29.8, 36.6, and 40.0 MeV and the Strength of the Tensor Force in Nuclear Reactions.
- JOHN BENHAM GERRISH, Ph.D. B.E., M.S.E.E., Stevens Institute of Technology.
Agricultural Engineering. Major Professor: William G. Bickert, Professor.
Thesis: Harvesting Some Agriculturally Promising Algae.
- RONALD KENNETH GIBBS, Ph.D. B.A., M.A., Michigan State University.
Education. Major Professor: Keith P. Anderson, Associate Professor.
Thesis: An Evaluative Analysis of a Junior High School Work-Study Program in the Lansing, Michigan Public Schools.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- MODESTUS XAVIER GOMEZ, Ph.D. B.S., University of Ceylon; M.A., Michigan State University. Poultry Science and Institute of Nutrition. Major Professor: Donald Polin, Associate Professor. Thesis: Influence of Bile Salts on the Utilization of Fats in the Chicken.
- DARREL LANE GOOD, Ph.D. B.S., M.S., Southern Illinois University. Agricultural Economics. Major Professor: Larry J. Connor, Associate Professor. Thesis: Potential Impact of Environmental Pollution Abatement Alternatives on the Michigan Dairy Farming Industry.
- EITOKU GOYA, Ph.D. B.S., University of Ryukyus; M.S., Tohoku University. Mathematics. Major Professor: J. Cleo Kurtz, Associate Professor. Thesis: Extremely Amenable Semi-Groups.
- SANDRA ELAINE GRAHAM, Ph.D. B.S., M.A., Michigan State University. Psychology. Major Professor: Gordon Wood, Associate Professor. Thesis: Memory for Linguistic Materials.
- RANDOLPH LEROY GRAYSON, Ph.D. B.A., Iowa State University; M.A., Washington University. Botany and Plant Pathology. Major Professor: Melvyn L. Lacy, Associate Professor. Thesis: Morphogenesis, Nuclear History, and Ultrastructure of *Urocystis colchici*.
- HAROLD HENRY GRUNAU, Ph.D. B.S.A., University of Toronto; M.A., University of Michigan. Education. Major Professor: Julian R. Brandou, Professor. Thesis: An Experimental Study of the Effects of a Preservice Elementary Science Curriculum Innovation on Selected Measures of Teacher and Pupil Performance.
- ROBERT PETER GURNEY, Ph.D. A.B., University of Detroit; M.A., Michigan State University. Psychology. Major Professor: James L. Phillips, Associate Professor. Thesis: A Hierarchic Random Utility Model for Wagers.
- FRED PAUL HAIN, Ph.D. B.S., Stetson University; M.S., Duke University. Entomology. Major Professor: William E. Wallner, Associate Professor. Thesis: The Biology and Control of the Pine Candle Moth, *Exoteleia nepheos*, on Scotch Pine in Michigan.
- DAVID JAMES HALL, Ph.D. B.S., M.S., Michigan State University. Forestry. Major Professor: Louis F. Wilson, Assistant Professor. Thesis: The Within-Generation Mortality, Within-Tree Distribution, and Damage of the Jack Pine Tip Beetle, *Conophthorus Banksianae* McPherson.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- SANFORD BERYL HALPERIN, Ph.D. B.S., New York University; A.M., University of Pennsylvania. Education. Major Professor: Peter G. Haines, Professor. Thesis: Change in Attitude Toward Life Insurance Salesmen by College Students After a Course in Insurance Principles.
- SANG-BOK HAN, Ph.D. B.A., M.A., Seoul National University. Anthropology. Major Professor: Bernard Gallin, Professor. Thesis: Socio-Economic Organization and Change in Korean Fishing Villages: A Comparative Study of Three Fishing Communities.
- JAMES D. HAND, Ph.D. B.S., State University of New York; M.S., University of Bridgeport. Education. Major Professor: Charles F. Schuller, Professor. Thesis: Matching Programed Instruction Packages and an Instructional Setting to Students, in Terms of Cognitive Style: An Exploratory Study.
- PAUL RUSSELL HANDY, Ph.D. A.B., Hope College; M.S., Michigan State University. Chemistry. Major Professor: Alexander Popov, Professor. Thesis: Spectroscopic Studies of Lithium Ion Solvation in Non-Aqueous Solvents.
- KIMI T. HARA, Ph.D. B.A., Tsuda College; M.A., The University of Chicago. Education. Major Professor: Wilbur B. Brookover, Professor. Thesis: A Cross-Cultural Comparison of Self-Concepts and Value Orientations of Japanese and American Ninth Graders.
- ALLEPPEY V. HARIHARAN, Ph.D. B.Sc., M.Sc., Maharaja's College. Chemistry. Major Professor: Harry A. Eick, Professor. Thesis: Vaporization Thermodynamics of Selected Europium (II) Compounds.
- EDWIN ALAN HARTMAN, Ph.D. B.A., University of Wisconsin; M.A., Michigan State University. Psychology. Major Professor: James L. Phillips, Associate Professor. Thesis: The Motivational Basis of Sex Differences in the Prisoner's Dilemma Game.
- MERRILEE KATHRYN HELMERS, Ph.D. B.S., University of Washington; M.S., Michigan State University. Statistics. Major Professor: Dennis Gilliland, Associate Professor. Thesis: On the Continuity of the Bayes Response.
- EMIL OTTO HERBOLZHEIMER, Ph.D. B.A., Tech College of Barcelona; M.A., Michigan State University. Economics. Major Professor: Wolfgang P. Strassmann, Professor. Thesis: Cross-Section Analysis of Demand for Housing in Venezuela.
- DAVID WILLIAM HESSLER, Ph.D. B.A., M.A., University of Michigan. Education. Major Professor: Paul W. F. Witt, Professor. Thesis: Interaction of "Visual Compression" and Field-Dependence in Relation to Self-Instruction and Transfer.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- NANCY GLENZ HINCKLEY, Ph.D. B.A., Trenton State College; M.A., Michigan State University. Education. Major Professor: Robert E. Gustafson, Associate Professor. Thesis: A Study of Selected Factors Related to Snowmobile Accidents Before and After Enactment of Regulatory Legislation in the State of New York.
- ANTHONY DARE HITCHINS, Ph.D. B.S., University College; M.S., London University. Microbiology and Public Health. Major Professor: Harold L. Sadoff, Professor. Thesis: Thermosensitive Cell Division Septation and Sporulation Septation in a Mutant of *Bacillus Megaterium*.
- VICTORIA MILLICENT HITCHINS, Ph.D. B.A., Wellesley College; M.S., Michigan State University. Microbiology and Public Health. Major Professor: Harold L. Sadoff, Professor. Thesis: The Role of B-Hydroxybutyrate During Encystment of *Azotobacter Vinelandii*.
- NANCY CAROL HOOK, Ph.D. B.S., Iowa State University; M.S., Purdue University. Family Ecology. Major Professor: Beatrice Paolucci, Professor. Thesis: Relative Power Distribution as Related to Need Satisfaction in Families with a Wife-Mother who has a Rheumatic Disease.
- DOROTHY MATTHIS HUSON, Ph.D. B.A., M.A., Michigan State University. English. Major Professor: Lawrence Babb, Professor. Thesis: Robert Herrick's *Hesperides* Considered as an Organized Work.
- FRANCIS SULEMANU IDACHABA, Ph.D. B.S., University of Ibadan; M.A., University of Chicago. Agricultural Economics. Major Professor: Glenn L. Johnson, Professor. Thesis: Marketing Board Taxation of Nigerian Agriculture: Some Implications.
- LESTER REINHARDT ISBRANDT, Ph.D. B.S., Northern Illinois University. Chemistry. Major Professor: Max T. Rogers, Professor. Thesis: A Study of Molecular Structure and Internal Rotation in Amides by Nuclear Magnetic Resonance Spectroscopy.
- MAXIE C. JACKSON, JR., Ph.D. B.A., M.A., Michigan State University. Education. Major Professor: Joseph H. McMillan, Professor. Thesis: A Comparative Descriptive Study of MSU Student Volunteers and the Relationship of Their Background and Individual Characteristics to Student Activist and to Non-Volunteer Students.
- LOUIS CONRAD JACOBY, D.B.A. B.S., Elizabethtown College; M.B.A., Temple University. Business Administration (Accounting). Major Professor: Floyd W. Windal, Professor. Thesis: A Model of Recommended Education for the Future Growth of Certified Public Accountants.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- KEITH ALLEN JANSSEN, Ph.D. B.S., M.S., University of Nebraska.
Soil Science. Major Professor: Maurice L. Vitosh, Assistant Professor.
Thesis: Effect of Physical and Nutritional Factors of the Environment on Nitrogen Fixation, Plant Composition, and Yield of Dark Red Kidney Beans (*Phaseolus Vulgaris* L.).
- MARGARET ANN JETTER, Ph.D. B.A., Mercyhurst College; M.A., University of Michigan.
Education. Major Professor: Paul W. F. Witt, Professor.
Thesis: The Roles of the School Library Media Specialist in the Future: A Delphi Study.
- JENNY TAYLOR JOHNSON, Ph.D. A.B., Meredith College.
Nutrition. Major Professor: Olaf Mickelsen, Professor.
Thesis: The Effect of Obesity in the Rat on the Kidney and Urine.
- SAMIR KAMAL, Ph.D. B.S., Cairo University; M.S., Carnegie Institute.
Computer Science. Major Professor: Carl V. Page, Associate Professor.
Thesis: Diagnosis of Intermittent Faults in Digital Systems.
- UAN GEN KANG, Ph.D. B.S., Coupuk National University.
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.
Thesis: Temperature Dependence of Some Secondary Kinetic Deuterium Isotope Effects.
- COURTNEY MICHAEL KERWIN, Ph.D. B.S., Illinois Institute of Technology.
Chemistry. Major Professor: Gordon A. Melson, Assistant Professor.
Thesis: Nickel(II) Complexes Containing Non-Cyclic and Macrocyclic Ligands Derived From Benzil Monohydrazone.
- PHILIP KENNETH KIENAST, Ph.D. B.A., University of Notre Dame; M.L.I.R., Michigan State University.
Social Science. Major Professor: Albert Blum, Professor.
Thesis: Policemen and Fire Fighter Employee Organizations: A Comparative Study of Historical and Sociological Factors Affecting Employee Organization Structure.
- WERNER KIENE, Ph.D. B.S., Hochschule Fuer Bodenkultur; M.S., Michigan State University.
Agricultural Economics. Major Professors: A. Allan Schmid, Vernon L. Sorenson, Professors.
Thesis: Evaluation of the Impact of Health Care on Activity Levels of the Rural Poor.
- BEVERLY JANE KLOOSTER, Ph.D. A.B., Calvin College; M.S., Michigan State University.
Microbiology and Public Health.
Major Professor: Delbert E. Schoenhard, Professor.
Thesis: Genetic Studies in *Salmonella pullorum* Using F-TRP, FT71, and F-LAC Donors.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

LLOYD JOHN KORHONEN, Ph.D.

B.S., University of Minnesota; M.A., Ed.S., Eastern Michigan University.

Education. Major Professor: Russell J. Kleis, Professor.

Thesis: A Case Study of the Adult Education Association of Michigan and a Normative Model for a Comprehensive State Adult Education Association.

THOMAS ROBERT KOWAR, Ph.D.

B.S., Kent State University.

Chemistry. Major Professor: Eugene LeGoff, Associate Professor.

Thesis: Synthetic Approaches to 1,2-Cyclooctatrienedione.

SHIOU-SAN KUO, Ph.D.

B.S., Cheng Kung University; M.S., Michigan State University.

Civil Engineering. Major Professor: Roy R. Goughnour, Associate Professor.

Thesis: Stress and Time Effect on the Creep Rate of Polycrystalline Ice.

CHARLES AUSTIN LADLEY, JR., Ph.D.

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

Education. Major Professor: Howard Hickey, Associate Professor.

Thesis: An Analysis of Attitudes of Certain Adults Regarding Assignment of Young Addicts to Drug Treatment Programs as Based on Selected Variables.

DUANE CLARK LARSON, Ph.D.

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

Physics. Major Professor: Sam M. Austin, Professor.

Thesis: Inelastic Proton Scattering from ^{138}Ba and ^{144}Sm and its Microscopic Interpretation.

NANCY ZANDER LARSON, Ph.D.

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

Physics. Major Professor: Jack H. Hetherington, Associate Professor.

Thesis: Three-Body Problem: A Formalism and Computer Code for Arbitrary Kinds of Particles.

DAVID T. LEE, Ph.D.

B.A., Taiwan Provincial Chung Hsing University; M.S., South Dakota State; M.U.P., Michigan State University.

Social Science. Major Professor: Charles Barr, Professor.

Thesis: Development of a Mathematical Model and Information System for Forecasting Intercity Trip Demands for the Taipei, Taiwan Metropolitan Area.

KYE WOO LEE, Ph.D.

B.L., Seoul National University.

Economics. Major Professor: Anthony Koo, Professor.

Thesis: An International Study of Manufacturing Production Functions: Estimation and Implications.

MOON YONG LEE, Ph.D.

B.A., M.A., Seoul National University.

Education. Major Professor: Cole S. Brembeck, Professor.

Thesis: A Comparative Study of Apprenticeship Schemes in Selected Developing Countries.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

WHU TA LEE, Ph.D.

B.S., Taiwan Provincial Maritime College; M.S., Tokyo University. Food Science. Major Professor: Lawrence E. Dawson, Professor. Thesis: The Composition of Chicken Lipids and Cooking Oil as Influenced by Cooking, Reused Cooking Oil, and Frozen Storage of Fried Chicken.

R. DALE LEFEVER, Ph.D.

B.A., Wheaton College; M.A., Michigan State University. Education. Major Professor: James H. Nelson, Professor. Thesis: An Investigation of Engineering Faculty Attitudes Toward a Proposed Curriculum Innovation.

†JOHN LUTHER LEONARDSON, Ph.D.

B.A., Augustana College; M.B.A., Michigan State University. Business Administration (Marketing). Major Professor: Frank H. Mossman, Professor. Thesis: A Definition of Mobility-Handicap in Urban Transportation.

MARTIN DONALD LEVINE, Ph.D.

B.A., University of Rochester; M.A., Michigan State University. Political Science. Major Professor: David B. Meltz, Assistant Professor. Thesis: A Theory of Coalition Formation in Legislatures: Bargaining in the U. S. Senate.

ANDREAS LINDERT, Ph.D.

B.S., Wayne State University; M.S., University of Illinois. Chemistry. Major Professor: Michael W. Rathke, Assistant Professor. Thesis: Reactions of Enolate Anions.

CHARLES LONEGAN, Ph.D.

B.A., Montclair State College; M.S., Pennsylvania State. Audiology and Speech Sciences. Major Professor: Herbert J. Oyer, Professor. Thesis: An Investigation of the Transmission of Relative Sound Pressures of Phonated Vowel Sounds at Selected Locations of the Head and Neck.

KUEW-HSIUNG LU, Ph.D.

B.S., Taiwan Normal University; M.S., National Taiwan University. Physiology. Major Professor: Joseph Meites, Professor. Thesis: Effects of Biogenic Monoamines, Ergot Drugs, Estrogen and Synthetic Thyrotropin-Releasing Hormone on Pituitary Prolactin Release.

DOUGLAS BOYDEN LUND, Ph.D.

B.A., St. Olaf College; M.A., University of Michigan. Education. Major Professor: Floyd G. Parker, Professor. Thesis: A Comparison of Selected Personnel Management Practices in Michigan Public School Districts to Existing Research in Personnel Management Functions.

ROBERT LUSCHER, Ph.D.

B.S., Swiss Federal Institute of Technology; M.S., Michigan State University. Crop Science. Major Professor: Norman R. Thompson, Professor. Thesis: Genetic Variability of "Available" Methionine Total Protein, Specific Gravity and Other Traits in Tetraploid Potatoes.

† Posthumously

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

SAUVEUR MAHOTIERE, Ph.D.

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

Horticulture. Major Professor: Robert G. Herner, Assistant Professor.
Thesis: Onion Dormancy in Relation to Temperature, Applied Growth Substances and an Endogenous Growth Inhibitor.

CAROL A. MAPES, Ph.D.

B.S., Adrian College.

Biochemistry. Major Professor: Charles C. Sweeley, Professor.
Thesis: Studies on the α -Galactosidases of Normal and Fabry Plasma.

DAVID PAUL MARTIN, Ph.D.

B.A., Goshen College; M.S., Michigan State University.

Crop Science. Major Professor: James B. Beard, Professor.
Thesis: The Influence of Temperature, Cultural Factors, and Analytical Techniques on Carbohydrate Levels in Turfgrasses.

KENNETH EDWARD MARTIN, Ph.D.

B.S., St. Benedict's College.

Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.
Thesis: Protonated Cyclopropane Formation in the Deamination of Cyclopentylcarbonyl Amine.

GORDON STEVENSON MAY, Ph.D.

B.S., Wittenberg University; M.B.A., University of Michigan.

Business Administration (Accounting). Major Professor: Roland F. Salmonson, Professor.

Thesis: A Test of Cash Maneuverability as a Surrogate for Adaptability.

JOSEPH LEWIS MAZANEC, Ed.D.

B.S., St. Norbert College; M.S., University of Wisconsin.

Education. Major Professor: John Wagner, Professor.

Thesis: The Effect of Course Intensity on Academic Achievement, Student Attitudes, and Mortality Rate.

JAMES FRANCIS MCCARTHY, Ph.D.

B.M., University of Wisconsin; M.M., San Jose College.

Music. Major Professor: Robert G. Sidnell, Associate Professor.

Thesis: The Effects of Selected Factors and Individual Instruction Within the Music Classroom on the Performance Achievement of Seventh Grade Beginning Instrumentalists.

JEAN GRAVES McDONALD, Ph.D.

A.B., Baker University; M.A., University of Missouri.

Political Science. Major Professor: Charles Press, Professor.

Thesis: Oklahoma Patronage, The Political Parties and State Elective Officials.

JOSEPH MICHAEL MCGRATH, Ph.D.

B.S., College of St. Thomas.

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

Thesis: α -Substituent Effects on Energy Transfer and Photoreactivity of Ketones.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- ALAN WILLIAM MCINTOSH, Ph.D. B.S., M.S., University of Illinois.
Fisheries and Wildlife. Major Professor: Niles R. Kevern, Professor.
Thesis: Effects and Fate of Copper in Ponds.
- JAMES RICHARD MCINTYRE, Ph.D. B.A., M.A., Michigan State University.
German, Language and Literature. Major Professor: Mark O. Kistler,
Professor.
Thesis: Epic Elements in the Dramas of Frank Wedekind.
- CHARLES JOHN MCKINLEY, Ph.D. B.S., Southern Illinois University; M.S., University of Wyoming.
Education. Major Professor: Van C. Johnson, Professor.
Thesis: An Evaluation Study of the Biology Curriculum at Indiana-
Purdue University Regional Campus at Fort Wayne.
- DAVID WILLIAM MESSMORE, Ph.D. A.B., M.A., California State College. Education. Major Professor:
Walter F. Johnson, Professor.
Thesis: An Experimental Study of the Effects of 24-Hour Marathon
Encounter Groups on Self Concept.
- ROBERT ALLEN MEYER, Ph.D. B.A., Valparaiso University; M.A., Michigan State University.
Education. Major Professor: Robert P. Poland, Professor.
Thesis: An Experimental Study Designed to Determine the Advan-
tages of a Multi-Media Approach to the In-Basket Technique for
Use in the Laboratory Approach to Office Education.
- DAVID KEITH MICHAEL, Ph.D. B.S., Central Michigan University; M.S., Michigan State University.
Physiology. Major Professor: S. Richard Heisey, Professor.
Thesis: The Effect of Acute Hypoxia on Glucose, Lactate and Pyruvate
Transport from the Brain Ventricles of the Dog.
- PETER R. MONGE, Ph.D. B.A., Pacific Union College; M.A., San Jose State College.
Communication. Major Professor: Richard V. Farace, Associate Pro-
fessor.
Thesis: The Study of Human Communication from Three Systems
Paradigms.
- WILLIAM LAWRENCE MUTH, Ph.D. A.B., Indiana University; M.S., Michigan State University.
Microbiology and Public Health. Major Professor: Ralph N. Costilow,
Professor.
Thesis: The Purification, Characterization, and Mechanism of Action
of Ornithine Cyclase (Deaminating) from *Clostridium sporogenes*.
- LEON EVERETT NEEB, Ed.D. B.S., Huntington College; M.Ed., Ed.S., Bowling Green State Uni-
versity.
Education. Major Professor: Walter W. Scott, Associate Professor.
Thesis: A Study of Instructional Materials and Their Use by Selected
Elementary Student Teachers in Their Student Teaching Assignments.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- STEVEN NEWSTAT, Ph.D. B.S., M.Ed., Temple University.
Education. Major Professor: Charles F. Schuller, Professor.
Thesis: A Study of the Relationship Between Sociocultural Variables and Geometric Problem Solving Performances of Disadvantaged Children.
- MOHAMED HASHIM BIN
MOHAMED NOOR, Ph.D. B.S., M.S., University of Kentucky.
Agricultural Economics. Major Professor: Carl K. Eicher, Professor.
Thesis: The Malaysian Smallholder Rubber Sector: Implications of Ethrel Stimulation and the New Processing Technology.
- LAWRENCE THOMAS NOVAK, Ph.D. B.S., M.S., Michigan State University.
Chemical Engineering. Major Professor: George A. Coulman, Associate Professor.
Thesis: Transport Phenomena in Porous Media with Emphasis on Water Movement in Soils.
- FRED VERNON NURNBERGER, Ph.D. B.S., M.S., Michigan State University.
Agricultural Engineering. Major Professor: George E. Merva, Associate Professor.
Thesis: Microenvironmental Modification by Small Water Droplet Evaporation.
- THOMAS EUGENE O'BRYAN, Ph.D. B.A., University of Dayton; M.S., Michigan State University.
Statistics. Major Professor: Dennis Gilliland, Associate Professor.
Thesis: Empirical Bayes Results in the Case of Non-Identical Components.
- JAMES DAVID OLSON, Ph.D. B.S., Carroll College.
Chemistry. Major Professor: Frederick Horne, Associate Professor.
Thesis: Interferometric Examination of Temperature Distributions in Liquids: Refractive Index and Thermal Conductivity.
- JON LYNN OLSON, Ph.D. B.S., Case Institute of Technology.
Anthropology. Major Professor: Joseph Spielberg, Associate Professor.
Thesis: Economic and Social Alternatives in a Northern Mexican Community.
- LOLO MARANGKUP PANGGABEAN, Ph.D. B.S., Teacher Training College; M.A.T., Michigan State University.
Physics. Major Professor: Sam M. Austin, Professor.
Thesis: Proton Induced Spallation of ^{20}Ne and the Astrophysical Production of the Lithium Isotopes.
- DEVENDRA S. PATHAK, D.B.A. B.Com., M.Com., M.J. College of Commerce; M.A., Southern Illinois University; M.B.A., Michigan State University.
Business Administration (Marketing). Major Professor: W. J. E. Crissy, Professor.
Thesis: A Study of Department Stores' Images Held by Customers and Management.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- SAMUEL JAMES PATON, Ph.D. B.S., University of Iowa.
Chemistry. Major Professor: Carl H. Brubaker, Jr., Professor.
Thesis: The Kinetics of the Oxidation of Hypophosphite by Perruthenate in Aqueous Alkali.
- DAVID LEWIS PEACOCK, Ph.D. B.S., M.S., Michigan State University.
Agricultural Economics. Major Professor: Harold M. Riley, Professor.
Thesis: The Adoption of New Agricultural Practices in Northeast Brazil: An Examination of Farmer Decision-Making.
- MARK R. PENTA, Ph.D. B.A., Fairleigh Dickinson University; M.A., Michigan State University.
Education. Major Professor: Marvin E. Grandstaff, Associate Professor.
Thesis: Education as a Function of Community: Paul Goodman's Concept of the Educative City.
- DONALD MARVIN PLATTE, Ph.D. B.S., Aquinas College; M.S., Michigan State University.
Mathematics. Major Professor: Gerald D. Taylor, Professor.
Thesis: Approximation with Hermite-Birkhoff Interpolatory Constraints and Related H-Set Theory.
- GEORGE PODOLSKY, Ph.D. B.S., University of Minnesota.
Chemistry. Major Professor: Thomas J. Pinnavaia, Associate Professor.
Thesis: The Preparation and Structural Characterization of Niobium and Tantalum Complexes with Dipivalolmethane.
- HENRY THOMAS PRICE, Ph.D. A.B., M.A., University of South Carolina.
Communication. Major Professor: Verling C. Troidahl, Professor.
Thesis: The Effect of Newspaper Design Complexity on Readership, Comprehension, Interestingness and Pleasingness.
- IVAN D. PROCTOR, Ph.D. B.S., Iowa State University; M.S., Michigan State University.
Physics. Major Professor: Walter Benenson, Associate Professor.
Thesis: A Study of ^{17}O and ^{17}F Through Charged Particle Reactions.
- MARY ELLEN QUINN, Ph.D. B.S., College of St. Mary; M.A., University of Notre Dame.
Education. Major Professor: Walter F. Johnson, Professor.
Thesis: An Investigation of Undergraduate Field Study Experiences at Michigan State University.
- GREGORY JAMES RATHJEN, Ph.D. B.A., M.A., Michigan State University.
Political Science. Major Professor: Harold J. Spaeth, Professor.
Thesis: A Theory of Intracourt Influence.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- RONALD JOSEPH RICHTER, Ph.D. B.S., Tri-State College; M.S., Michigan State University. Electrical Engineering. Major Professor: Richard C. Dubes, Professor. Thesis: Nonparametric Procedures for Learning with an Imperfect Teacher.
- JOSEPH WILLIAM RILEY, Ph.D. B.S., Michigan State University; M.S., Eastern Michigan University. Education. Major Professor: Glenn D. Berkheimer, Associate Professor. Thesis: The Development and Use of a Group Process Test for Selected Processes of the Science Curriculum Improvement Study.
- ALLEN R. ROBINSON, Ph.D. B.S., Eastern Illinois University; M.S., Illinois State University. Education. Major Professor: Robert E. Gustafson, Associate Professor. Thesis: A Post-Test for Driver Education Based on: *A Resource Curriculum in Driver and Traffic Safety Education*.
- MARYBELLE CHASE ROCKEY, Ph.D. B.A., University of Northern Iowa; M.A., Colorado State College. Education. Major Professor: Louis Stamatakis, Professor. Thesis: Doctoral Preparation Programs in College Student Personnel in Selected Universities in the United States.
- L. EDNA ROGERS, Ph.D. B.S., Iowa State University; M.A., The Ohio State University. Communication. Major Professor: Richard V. Farace, Associate Professor. Thesis: Dyadic Systems and Transactional Communication in a Family Context.
- LAWRENCE EDWARD SAMUELSON, Ph.D. B.S., Iowa State University. Physics. Major Professor: William H. Kelly, Professor. Thesis: Properties of Gamma-Ray Transitions in ^{56}Co from ^{56}Ni Decay and $^{56}\text{Fe}(p,n)^{56}\text{Co}$.
- RONALD ANTHONY SANTORA, Ph.D. A.B., Fairfield University; M.A., Michigan State University. English. Major Professor: Stephen N. Judy, Associate Professor. Thesis: The Response to Literature: A New Curriculum.
- MARIE CAROL SCHRAG, Ph.D. B.S., Pennsylvania State University; M.S., New York University. Education. Major Professor: Lawrence Borosage, Professor. Thesis: An Assessment of Selected Attitudinal Changes in Secondary Vocational Teachers.
- DANIEL R. SCHUMAIER, Ph.D. B.S., Southwest Missouri State College; M.S., Washington University. Audiology and Speech Sciences. Major Professor: William F. Rintelmann, Professor. Thesis: A New Method for Expressing Hearing Aid Performance Characteristics and for Conducting Hearing Aid Evaluations.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR EDUCATIONAL SPECIALIST DEGREES — FALL TERM, 1972 (Continued)

- EVANGELOS MICHAEL SFAKIOTAKIS, Ph.D. B.S., University of Thessaloniki; M.S., Michigan State University. Horticulture. Major Professor: David R. Dilley, Professor.
Thesis: Studies on the Mode of Action of Ethylene in Plant Tissues and its Role in Autocatalytic Ethylene Production.
- STANLEY DEWAYNE SIBLEY, Ph.D. B.A., M.B.A., Michigan State University. Business Administration (Marketing). Major Professor: Donald J. Bowersox, Professor.
Thesis: The Identification of Behavioral, Knowledgeable, and Demographic Market Segments of Purchasers of Household Durables.
- SURAT SILPA-ANAN, Ph.D. B.Ed., College of Education; M.A., Michigan State University. Education. Major Professor: David K. Heenan, Professor.
Thesis: A Model for Planning-Programming-Budgeting Systems Application to Educational Development Planning in Thailand.
- CARLOS RENALDO SLEDGE, Ph.D. B.S., Knoxville College; M.S., Virginia State College. Microbiology and Public Health. Major Professor: David H. Bing, Associate Professor.
Thesis: Studies on the Human Complement Protein Clq.
- FAWWAK TURKI SLEIMAN, Ph.D. B.S., M.S., American University of Beirut. Dairy. Major Professor: J. T. Huber, Associate Professor.
Thesis: Effect of Organic Acid Treatment on Preservation, Fermentation and Nutritive Value of Unprotected Forages and High Moisture Ear Corn.
- CHARLES EDWIN SMITH, Ph.D. B.S., B.S.Ed., Wisconsin State College; M.S., Northern Illinois University. Education. Major Professor: William A. Mann, Professor.
Thesis: Relationships Between Family Supervision of Beginning Male Drivers and Traffic Violation Convictions.
- FRANK JAMES SMITH, Ph.D. B.S., M.S., Iowa State University. Psychology. Major Professor: William D. Crano, Associate Professor.
Thesis: A Laboratory Model of Student/Administrator Conflict.
- JANET DELITA SMITH, Ph.D. B.A., Inter-American University of Puerto Rico; M.A., Michigan State University. Education. Major Professor: Lawrence W. Lezotte, Associate Professor.
Thesis: A Developmental Study: Socioeconomic Status, Race, and Incidental Learning.
- PHILLIP IRWIN SNETT, Ph.D. B.S., University of Wisconsin; M.A., Michigan State University. Psychology. Major Professor: Bertram P. Karon, Professor.
Thesis: The Effect of Therapist-Patient Conflict Similarity Upon Therapists' Prognostic Evaluations and Other Clinical Judgments of Their Patients.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- RICHARD JOHN SNIDER, Ph.D. B.S., M.S., Michigan State University.
Entomology. Major Professor: James W. Butcher, Professor.
Thesis: The Bionomics of *Onychiurus justus porteri* N.SSP. (Onychiuridae: Collembola).
- RALPH LEONARD SOMACK, Ph.D. B.S., Cornell University; M.S., Michigan State University.
Microbiology and Public Health. Major Professor: Ralph N. Costilow, Professor.
Thesis: Characterization of the Reactions Involved in the Conversion of Ornithine to 2-Amino-4-Ketopentanoic Acid in *Clostridium Sticklandii*.
- MIGUEL JAMES STEWART, Ph.D. B.A., M.S., Michigan State University.
Mathematics. Major Professor: Edward A. Nordhaus, Professor.
Thesis: Graphs and Their Subdivisions.
- MARILYN KAY STICKLE, Ph.D. B.A., Eastern Michigan University; M.A., Michigan State University.
Education. Major Professor: Byron H. VanRoekel, Professor.
Thesis: The Consistency of Morphological Generalizations of Disadvantaged First Grade Children in Listening, Speaking and Reading Situations.
- RICHARD JOHN STIGGINS, Ph.D. B.S., State University of New York; M.A., Springfield College.
Education. Major Professor: Robert L. Ebel, Professor.
Thesis: Stability of Semantic Meaning Space and Change in Concept Meaning During Teacher Planning.
- DAVID ALLAN SUMBERG, Ph.D. B.S., Utica College; M.S., Michigan State University.
Physics. Major Professor: Paul M. Parker, Professor.
Thesis: Fourth-Order Centrifugal Distortion Coefficients for Non-linear Triatomic Molecules.
- RAYMOND JOSEPH SUPALLA, Ph.D. B.A., University of Minnesota.
Agricultural Economics. Major Professor: A. Allan Schmid, Professor.
Thesis: The Potential for Increasing Earned Income of Welfare Recipients in Rural Areas: A Case Study of Allegan County, Michigan.
- DAVID OWEN SWINT, Ph.D. B.S., University of Texas; M.S., California Institute of Technology.
Mechanics. Major Professor: David H. Y. Yen, Professor.
Thesis: Studies on the Nonlinear Vibrations of Systems with One and Two Degree-of-Freedom.
- ADAM TIBOR SZLUHA, Ph.D. B.S., Bradley University; M.S., Central Michigan University.
Fisheries and Wildlife. Major Professor: Clarence D. McNabb, Jr., Professor.
Thesis: Potamological Effects of Fish Hatchery Discharge on the Jordan River, Northern Lower Michigan.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

- JIM L. TARTER, Ph.D. B.S., M.B.A., Oklahoma State University.
Business Administration (Management). Major Professor: Henry L. Tosi, Associate Professor.
Thesis: Mathematical Model of Attitude Change in a Longitudinal Study of Large Organizations.
- JOSELEYNE SLADE TIEN, Ph.D. B.A., University of Bristol; C.A.S., Harvard University.
Education. Major Professor: J. Geoffrey Moore, Professor.
Thesis: The Educational Theories of American Socialists 1900-1920.
- DENNIS PATRICK TIERNEY, Ph.D. B.S., M.S., St. Mary's College.
Fisheries and Wildlife. Major Professor: Clarence D. McNabb, Jr., Professor.
Thesis: Some Aspects of the Ecology of Naturally Occurring Populations of Submerged Vascular Hydrophytes in Municipal Wastewater Lagoons. I. Primary Production and Phosphorus-Nitrogen Accumulation. II. Trace Element Accumulation. III. Potential Use as a Feed Stuff and Soil Conditioner.
- THOMAS NORMAN TILLMAN, Ph.D. B.S., University of Michigan; M.A., Michigan State University.
Education. Major Professor: Wayne D. Van Huss, Professor.
Thesis: Psychogenic Effects of Environmental Cues on Physiologic Responses to Submaximal Work Under Hypoxic Conditions.
- IDA ANNIE TORRANS, Ph.D. B.A., Northwestern State University; M.A., Louisiana State University.
Audiology and Speech Sciences. Major Professor: Daniel S. Beasley, Assistant Professor.
Thesis: A Comparison of Methods for Studying Oral Stereognosis.
- RICHARD TRILLING, Ph.D. B.S., Massachusetts Institute of Technology; M.S., Syracuse University.
Physics. Major Professor: Hugh McManus, Professor.
Thesis: Simple Excitations of Doubly Closed Shell Nuclei.
- NANCY BRANDON TUMA, Ph.D. B.A., Cornell University; M.A., University of California.
Sociology. Major Professor: Thomas Conner, Associate Professor.
Thesis: Stochastic Models of Social Mobility: A Comparative Analysis and an Application to Job Mobility of Mexican-American Men.
- THAI VAN CAN, Ph.D. Diplome, Ecole des Hautes Etudes Commerciales.
Economics. Major Professor: Anthony Koo, Professor.
Thesis: Capital Flows and International Adjustment.
- RICHARD LEE VANDLEN, Ph.D. B.S., Michigan State University.
Chemistry. Major Professor: Alexander Tulinsky, Professor.
Thesis: Part I: The Three Dimensional Structure of α -Chymotrypsin at pH 4.2. Part II: The Structure of α -Chymotrypsin at pH 6.7.
- JAMES M. VAN TASSEL, Ph.D. B.B.A., M.A., Western Michigan University.
Education. Major Professor: James E. Keller, Professor.
Thesis: Interrelationships Among Special Education Teacher Trainee Responses to Interest, Attitude and Personality Measures.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1972 (Continued)

PHILIP FRIEDRICH
VON VOIGTLANDER, Ph.D.

B.S., M.S., D.V.M., Michigan State University.
Pharmacology. Major Professor: Kenneth E. Moore, Professor.
Thesis: The Dopaminergic Nigro-Striatal Pathway and Mechanisms of Drug Action.

GWENDOLYN GIBBS WADE, Ph.D.

B.S., Illinois State University; M.A., Wayne State University.
Psychology. Major Professor: Jeanne E. Gullahorn, Associate Professor.
Thesis: Psychological Needs, Black Consciousness, and Socialization Practices Among Black Adolescents in Nova Scotia, Canada and Michigan, U.S.A.

CURTISS EDWIN WALL, Ph.D.

B.S., Alma College; M.A.T., Michigan State University.
Education. Major Professor: Perry E. Lanier, Associate Professor.
Thesis: A Study of the Efficacy of a Graduate Mathematics Methods Course in Changing In-Service Elementary Teachers' Attitudes Towards School Mathematics.

LIDIA SICARI WATRUD, Ph.D.

B.S., City College of New York; M.S., Michigan State University.
Botany and Plant Pathology. Major Professor: Albert H. Ellingboe, Professor.
Thesis: Evidence for Cytoplasmic Exchange in Matings of *Schizophyllum commune*.

WILLIAM LEE WELLER, JR., Ph.D.

B.S., Bucknell University; M.S., Michigan State University.
Biophysics. Major Professor: John Johnson, Professor.
Thesis: Ontogeny of Barrels in Muroid Sensory Neocortex: Time Course Relation to Behavioral Development, and Dependence Upon Peripheral Input.

DAVID CHRISTIAN WENKE, Ph.D.

B.A., Kalamazoo College; M.S., University of Alaska.
Chemistry. Major Professor: Chris G. Enke, Professor.
Thesis: A Computer Interfaced Photon Counting Spectrophotometer.

WILLIE ELBERT WILLIAMS, Ph.D.

B.S., Huston-Tillotson College; M.S., Texas Southern University.
Education. Major Professor: William M. Fitzgerald, Professor.
Thesis: A Study of a Process to Modify Verbal Interaction Patterns of High School Geometry Teachers.

KENNETH PENFIELD WINTERS, Ph.D.

B.A., Ohio Wesleyan University.
Chemistry. Major Professor: G. Mazaroff, Assistant Professor.
Thesis: Low Energy Resonant Electron Scattering from Homonuclear Diatomic Molecules with Partial Born-Oppenheimer Breakdown.

ANTHONY DAVID WOLF, Ph.D.

B.S., Pennsylvania State University.
Chemistry. Major Professor: Donald G. Farnum, Professor.
Thesis: Part I: Non Linear Free Energy Behavior of 2-Aryl-2-Norbornyl Cations. Part II: ^{19}F and ^1H NMR Study of an Equilibrium Among Arylbicyclooctyl Cations.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR EDUCATIONAL SPECIALIST DEGREES — FALL TERM, 1972

ROBERT REYNOLDS BACON, Ed.S.	B.A., Alma College; M.A., Michigan State University. Education. Major Professor: Alexander J. Kloster, Associate Professor.
KENNETH WALTER BLESSINGER, Ed.S.	A.B., University of Kentucky; M.A., Michigan State University. Education. Major Professor: Elizabeth H. Rusk, Professor.
JOHN REX BROOKS, Ed.S.	B.A., M.A., Michigan State University. Education. Major Professor: Raymond N. Hatch, Professor.
MYRON G. CAYLOR, Ed.S.	B.S., Clarion State College; M.Ed., Pennsylvania State University. Education. Major Professor: George R. Myers, Professor.
THOMAS ANTHONY DOONAN, Ed.S.	B.S., Northern Michigan University; M.A., Michigan State University. Education. Major Professor: Robert P. Poland, Professor.
WILLIAM DEWEY HEWITT, Ed.S.	A.B., Hillsdale College; M.A., Michigan State University. Education. Major Professor: Louis G. Romano, Professor.
RICHARD ELLIOTT HOEHLEIN, Ed.S.	B.A., M.A., Michigan State University. Education. Major Professor: Dale V. Alam, Associate Professor.
HOOSHANG IRAVANI, Ed.S.	B.S., M.A., Michigan State University. Education. Major Professor: Floyd G. Parker, Professor.
WILLIAM G. JURY, Ed.S.	B.A., M.A., Michigan State University. Education. Major Professor: Harvey F. Clarizio, Associate Professor.
PHILIP MARAZITA, Ed.S.	B.S., Central Michigan University; M.A., University of Michigan. Education. Major Professor: Alexander J. Kloster, Associate Professor.
WILLIE DEAN OSBORNE, Ed.S.	B.S.E., M.S.E., Arkansas State College. Education. Major Professor: George R. Myers, Professor.

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

LAWRENCE L. BOGER, DEAN

GRADUATED SUMMER TERM, 1972

DEGREE OF
MASTER
OF SCIENCE

Agricultural Economics

Wilson Leite do Canto
Aaron Hinkston
Keith Holaday Lacy
Paul Jeremy Miller
Luis Antonio Navarro
Eduardo Peláez
Alvaro Silva
Barnabas K. Zegge

Agricultural Mechanization

Thomas Lee Martus
Duane Wallace Thomforde
Paul Leigh Williams

Animal Husbandry

Chuan Ai

Crop Science

Jorge Luis Tello

Dairy

Orville William Smith, Jr.
Philip Lowell Spike

Fisheries and Wildlife

Larry E. Gregg
Ralph Lorimer Hay, III
Louis Anthony Helfrich
Paul A. Kooiker
Nicolao Papageorgiou
Les E. Weigum
Douglas Alan Whitcomb

Food Science

William David Deeslie
George Menelaus Lolas
George Joseph Seperich
Mark Alan Uebersax

Horticulture

Jimmy Jude Augustine
Javier A. La Rosa
Kriengsak Prugsakit

Park and

Recreation Resources

James William Pearce
Marvon H. Watson

Resource Development

Stanley Gorlitsky
Dale Dennis Kraus
Paul Brian McKnight
John Owusu-Ayirebi
Roger Alton Younker

Soil Sciences

Manlio Silvestre Fernandes
Pedro Godz

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF ENGINEERING

Agricultural Engineering

Gerald Edgar Danner
Jerome Paul Harper
Farouk Abbas Heidar

CANDIDATES — FALL TERM, 1972

DEGREE OF
MASTER
OF SCIENCE

Agricultural Economics

Solomon Bellete
Robert Alfred Buckingham
Donald William Gailey
Wayne Alan Knoblauch
Asmarni Sjamsu
Charles Lyndale Thames
Nualsri Yiempahat

Animal Husbandry

J. Eduardo Garcia L.
Henry B. Kayongo-Male
Gaspary S. Madata

Dairy

Charles Lee Goeke
C. Lehman Metzler

Fisheries and Wildlife

Thomas Joseph Ecker
Mark Thomas Halter
Marje Ann Hoopfer
Steven Frank Kinzel

Food Science

Maxwell Todd Abbott
Manel Indrani Gomez
Steven O. Huyck
Masanobu Koutake
Jeffrey Kay Mowry
Richard Allen Palmasano
Vijay Chand Sood

Forestry

Leo Chai

Dwight Ray Devereaux
Timothy James Flint
Martin Richard Jannereth
William Gary Schmidt

Horticulture

Hugh Christopher Boylan
William John Sanok

Packaging

Edward Allen Church
Chuen-Ming Li
Shih-Shu Pao
Charles Robert
VanHuysen, Jr.

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

DEGREE OF MASTER OF SCIENCE

Park and Recreation Resources

Gilbert William Cross
William Alden Jones, Jr.
Robert Henry McKenna
Douglas Neil Rittenger
Rodney Ray Zwick

Resource Development

George Roland Gibson, Jr.
Timothy Alan Hiltz
Samer Jantarapoot
Donald Lee Kelley
Thomas Casmir Kubanek
Martin Alan Stepper
Garren Roger Titus
David Jay Trastman

Soil Science

Murray Brian McBride
Robert Walter Taylor

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF ENGINEERING

Agricultural Engineering

Josse Guillaume de
Baerdemaeker
Donald DeWitt Moerdyke

Agricultural Business

Linda Kathryn Kilbourne
Richard Edward Kubiak

Agricultural Mechanization

Christopher Stephen
Christensen

Animal Husbandry

Phillip Dale AcMoody
John M. Apple
Robert Moffett Borg
Stephen Adelbert Rennells
William D. Reum
James Patrick Shaw
William Leo Sheridan
David Andrew Snyder
Kenneth Michael Spence
James Otto Wagner

*Jon M. Parker
Peter James Rynshoven, Jr.
Karen Marie Schafer
Tony Eugene Shaw

Food Science

Yen-Ping Chin

Forestry

John James Anton, Jr.
Michael Stuart Benford
Paul Robert Bigford
*Linda Ruth Donoghue
Gerald Robert Grieve
*Kenneth Glen Walker
Carl Raymond Working

Horticulture Marketing

Anton William Gaertner

Horticulture Science

Randall Frederick Braun, Jr.
James Lynn Chrestensen
*Randall Charles Heatley
*Douglas Andrew Lee

Thomas Kim Kretschmer
Richard Stewart Kunkle
David Lavern Lindsay
*Dennis Wayne Machuga
David Deming Marvin
John Craig Penprase
John Robert Scanlon
Terrance L. Schulte
Benita Marie Terry

Park and

Recreation Resources

Arthur Bruce Benson
*Richard William Cartmill
*James Lehner Donaldson
David Karl Heerd
Robert Brian Helvey
*Michael Joseph LaFave
Michael Robert Renwick
Andrew J. Wigg
Russell Craig Woodruff
Barney Conley Wrather

Public Affairs Management

H* Michael James Dodge
*Richard Earl Posthumus

Building Construction

William David Chisholm
Douglas Alan Druckenbrodt
John Andrew Serniak, Jr.

Crop Science

*David S. Bolyard

Dairy

*Robert William Barron

Fisheries and Wildlife

Charles A. Bowles
Gregory E. Brower
H* Dennis Paul Fijalkowski
Richard Dean Jacobs
*Jack Edward Kelly
Kenneth Michael Nelson

Packaging

Faegh Ariyannejad
Richard Ray Barrett
William Glenn Best
Bruce Allen Bussing
Larry Eugene Byrd
James D. Davis
William Leroy Fitzgerald
Douglas Jacob French
Stephen Carl Hach
Lyle Marvin Hagan
Gary John Haglund
Lon Ray Hilliker
Ronald Roger Holland
Steven D. Kloeckner

Resource Development

John Michael Butler
Jon A. Cudworth
Dennis Richard Downer
*Lucinda Jane Eller
Michael Edwin Forrest
Dennis Craig Root
Robert Lawrence Weber

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Animal Husbandry

*Jacquelin Carol Shade

H Honors College
* With Honor
** With High Honor

COLLEGE OF ENGINEERING

LAWRENCE W. VON TERSCH, DEAN

GRADUATED SUMMER TERM, 1972

DEGREE OF
MASTER
OF SCIENCE

Chemical Engineering

Vincent Rybicki
James Lanny Tucker

Civil Engineering

Wayne A. Charlie
Edwin C. Novak, Jr.
Michael R. Orlandella

Computer Science

Allen Paul Iskow

Electrical Engineering

Ronald Norton Borgers
Craig C. Elliott
Mehdi Kian
Raghuveer Mallavarpu
David William McBride
Thomas Michael Przybylski

Mechanical Engineering

Raymond Charles Krueger
Gaylord Wesley Oyler
Richard F. Riel

Metallurgy

Ravindra Madhukar Chhatre

Sanitary Engineering

Clarence John Cole, Jr.

Systems Science

James Vernon Hoagland
Jack Stewart Lawler
Elizabeth Li Lim

CANDIDATES — FALL TERM, 1972

DEGREE OF
MASTER
OF SCIENCE

Chemical Engineering

David Carl Bixler, III
Thomas R. Gilson
Shan-San Shih
William D. Stutesman

Computer Science

Robert Feldman Bedoll

Electrical Engineering

Donald Ray Bowling
Deepak V. Desai

Electrical Engineering

Bhag Singh Guru
Robert Charles Knapp
Kuang-Tzan Ma
Robert Michael O'Dell
Keith Sidney Plogsterd
Pakkaporn
Sathienpakiranakorn
Monte Earl Vannortwick

Mechanical Engineering

James Philip Miller

Metallurgy

Richard Adolph Schultz
V. P. Swaminathan

Sanitary Engineering

Tokan Mehmet Engin
John Charles O'Malia

Systems Science

John E. Ausen
Kenneth Allen Beasley
Ashok Kumar Patel

COLLEGE OF ENGINEERING

DEGREE OF BACHELOR OF SCIENCE

Chemical Engineering

Robert James Bell
Carl Edward Coulson
Stuart David Frenkel
Bruce Alan Mohnney
Viresh P. Patel
Robert Stanley Pontek

Civil Engineering

Howard Lee Bradshaw
James Howard Chism
James Howard Danley
*Charles Rutherford Eisele
Ronald Earl Lebbon
Thomas Patrick Looby
*Kenneth Joseph Miller
Michael Lynn Peters
David Jonas Pynnonen

Computer Science

Leith Donaldson Butler
H**Robert Arthur Cassels
James E. Magee
James Warren Neil
Theodore Edward
Targosz, Jr.
*James Robert Von Ehr, II

Electrical Engineering

*James Louis Biladeau
Kenneth Robert Black
David William Miedema
Terence John Sullivan
Gordon A. VanLoon
Donald James Willemsen

Mechanical Engineering

Walter Lee Carpenter
Donald Raymond Church
Robert Dean Davis
Duane Arthur Dorow
William Edward Miller, Jr.
Jon Richard Partusch
Frederick Joseph Ringe
Terry Walker Ruprecht
**Geoffrey Albert Schmidt
Thomas Jay Sloan
Steven Gilbert Thomas
James Landis Toth

Systems Science

Henry John Kerr
Duane Lee Laczkowski
*Timothy A. Pletcher
Edmund Yee Yao

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF AGRICULTURE
AND NATURAL RESOURCES

Agricultural Engineering

William Gerrit Bethke
John Joseph Gendzwill

H Honors College
* With Honor
** With High Honor

COLLEGE OF HUMAN ECOLOGY

ROBERT R. RICE, ACTING DEAN

GRADUATED SUMMER TERM, 1972

DEGREE OF MASTER OF ARTS	<u><i>Child Development</i></u> Mary Louise P. Andrews Thomas Frederick Barrett Carol Mary Donovan	<u><i>Family Studies</i></u> Cynthia Mae Cole Sally Ann Narhi	Geraldine De Frenn McDevitt Beverly J. Miller Vera Sturgeon Van Velsen
	<u><i>Clothing and Textiles</i></u> Sandra Bentzel Sara Long Butler Louise Margaret Grimm	<u><i>Home Economics Education</i></u> Alice V. Bonta Roberta Elaine Gustafson Paula Faye Johnson Sally Schriver Kocher	<u><i>Home Management</i></u> Beverly Sue Anderson Mary Ann Johnson
	<u><i>Foods</i></u> Elizabeth Joy Hough Waldina Elliott Smith	<u><i>Institution Administration</i></u> Harvey Hung Sun Lee	
DEGREE OF MASTER OF SCIENCE	<u><i>General Home Economics</i></u> Norma Jean G. Bonvallet Evelyn Anna Diehl	<u><i>Nutrition</i></u> Carol Lynn Meyerowitz Elizabeth Mary Post Sueh-Yu Pauline Su	

CANDIDATES — FALL TERM, 1972

DEGREE OF MASTER OF ARTS	<u><i>Child Development</i></u> Janet Charlotte Allen Carol M. Donovan Deborah Claire Keller	<u><i>Family Studies</i></u> Elizabeth Beard Goldsmith Kenneth Owen Slater Isabelle Owen Spence	<u><i>Home Management</i></u> Sinikka Marja Karesalo
	<u><i>Clothing and Textiles</i></u> Betty Jean Stevens	<u><i>Home Economics Education</i></u> Elizabeth Johnson Hitch Susan Kay Jensen Connie Jean Lucas Diane Veneklasen	<u><i>Human Shelter and Interior Design</i></u> Sunghee Oh Sonia Margarita Ruiz
	<u><i>Nutrition</i></u> Janet Sue Grommet Patricia Ann Redding		
DEGREE OF MASTER OF SCIENCE			

COLLEGE OF HUMAN ECOLOGY

DEGREE OF BACHELOR OF ARTS

Interior Design

*Emily May Arnold
Rose Mary Byrnes

Barbara Karen Jacobs
H**Karrie Elizabeth Johnson

Consumer-Community

Services

Mary Colleen Abbott
Sheila Louise Allen
Susan Jean Greene
Karen Allene Johnson
*Claire Marie Kosinski
*Emily Joyce Leterneau
*Susan Kay Passage
Deborah Sue Wilberding

Dietetics

Karen Denise Kelly
Barbara Ann Smith

Foods

Diane Louise Binder

General Clothing

and Textiles

Jennifer Jill Clapp
*Barbara Ann Gula
Diane Lane Hall
Marie Ann Kordie
*Arlene Kanouse Nieman

General Home Economics

Jill S. Engle
Cheryl Mary Enright
Jane Meredith Retz

Human Environment and Design

Sadye Houchins Benson
Marie B. Stoeckley

Retailing of Clothing and Textiles

Linda Helen Pennock

Retailing of Textiles and Clothing

Nancy Ann Bailey
Kimberly Ann Baird
Jonci Reni Chamberlain
Mary Denise Fuertges
Zinta Lynn Holly
Dolores Marie Ramirez
Brenda Joyce Respress
Leslie Allen Taylor

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Child Development and Teaching

Jane Elizabeth Arent
*Nancy Lynn Balfour
Bonnie Joy Both
Brenda Joyce Bynum
Barbara Ann Dumont
Joanne Beatrice Ellis
Kay Britten Hosler
Angela Liberty
Vita Liepins
Joan M. Mathers
Linda M. Meredith

Home Economics Education

Susan Josephine Brazo
Nancy Carole Debens
Catherine Ann Greenwood
Beverly Gayle Pylman Howey
Betsy Ann Little
Dena Maude McLeod
Ila Mae Town

DEGREE OF BACHELOR OF SCIENCE

COLLEGE OF VETERINARY MEDICINE

WILLIS W. ARMISTEAD, DEAN

GRADUATED SUMMER TERM, 1972

DEGREE OF
MASTER
OF SCIENCE

Anatomy

Keshav Chand Mangal

Large Animal Surgery and Medicine

Subronto Prodjocharjono

Pathology

Marilyn Patricia Anderson

Physiology

Gary Harrison Shaw

CANDIDATES — FALL TERM, 1972

DEGREE OF
DOCTOR OF
VETERINARY
MEDICINE

*Gary Anthony Banas
*Robert Michael Begin
*David Joseph Black
*William Lawrence Bryant
*Bruce Walter Bunting
Timothy Martin Burg
*Michael Lynn Bush
Richard Gene Caputo
Ronda Sue Cole
*Nina Clare Darga
*Henry M. Dykehouse
*Hugh Timmer Fauser
Robert T. Furness
*Andrew James Gale, III

*Glenn Leo Geurts
William Warner Hamilton
*Bruce William Harlton
Steven Smith Keeley
*Larry J. Kennel
*James Frederick Kiomento
William D. Luegge
Bruce Spencer Miller
*Greg Richard Olson
Marguerite Pappaioanou
*Leonard John Patrick
*Rex Edward Payne
*Rosalyn Randall
*James Bernard Rausch

*Robert John Remensnyder
David Paul Routson
Stephen Stuart Selfon
Daniel Edward Shebuski
James L. Siegler
Donald Edwin Smith
John Bartlett Smith
*Alan Louis Swanson
Michael Lee Sweet
*Wayne Allen Vine
Jeffrey Russell Westheimer
Stephen Don Wilson
*Ellen Witus

DEGREE OF
MASTER
OF SCIENCE

Anatomy

Thomas Joseph Olsen

Large Animal Surgery and Medicine

Bradley Edson Seguin, II

Microbiology and Public Health

Shiow Suey Lai

Pathology

David Peter Olson

Small Animal Surgery and Medicine

Terrance David Braden

DEGREE OF
BACHELOR
OF SCIENCE

Veterinary Medicine

*James Bruce MacLean
Bruce Spencer Miller

* With Honor
** With High Honor

COLLEGE OF BUSINESS

KULLERVO LOUHI, DEAN

GRADUATED SUMMER TERM, 1972

DEGREE OF	<u>Economics</u>
MASTER	Jose M. Franco
OF ARTS	Mhamed Faycal Lakhoua
	Abdul Mannan

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

DEGREE OF	Hugh Alanson Andrews	Douglas Eugene Gee	Warren Kent Molica
MASTER OF	James Francis Anzalone, Jr.	Linda Kay Hamilton	Roberto Alves De Lima
BUSINESS	Prapai Arayarungsarit	Ruy Roberto Hirschheimer	Montenegro
ADMINISTRATION	Donald James Badtke	Robert Charles Hoersch	Demetra Moulas
	John Andrew Bagnall	Paul Edward Jacroux	Daniel Joseph Obringer
	Chester Anton Basiewicz	Jose Carlos D. Jorge	Robert William Orth
	Jon Martin Baugher	Zafer Kesebir	Dieter L. Pape
	Dennis Dean Beehler	Paul Joseph Kraus	Theodore John Petroff
	Joseph Francis Brady	Javier A. La Rosa	William Judson Rogers, Jr.
	Richard David Brounstein	Richard Lee Lawrence	Federico Irving Sanchez
	Jacob Hendrik Gerrit	Jean Claude Leichnam	Daniel Richard Schrantz
	Bruggeman	Beverly Anne Luzadder	Gary Maurice Shingler
	Robert Andrew Brymer	Richard Scott Mahon	Dennis John Skog
	John Jeffry Burgdorfer	Marcel Mangen	Katherine Mary Stopa
	Semi Burket	Douglas Neil Manley	David Lynn Turner
	Charles Wright Carter	Ralph May	Rifat Ustün
	Michel Marie Chartron	Kevin McCook	Ronald Glenn Vehage
	Anjana Chinubhai Choksi	Vincent Francis	Michael Albert Vernier
	Lee Allen Christensen	McCormack, Jr.	Roy Kenneth Warland, Jr.
	Robert Edward Dirks	John Francis McDonald	George Earl Weber
	Robert Arthur Dowd	Michael Dee McIntyre	William Crable Wilbanks, Jr.
	Glenn Ivan Downer	Robert Anthony Meder	Thomas Mark Woiwode
	Thomas M. Galloway		

CANDIDATES — FALL TERM, 1972

DEGREE OF	<u>Economics</u>	Frederick Henry Imshaug	Stephen Paul Stoddard
MASTER	Keith Allen Ashmus	Christine Evelyn Kissmer	Ronald L. Tracy
OF ARTS	Winichai Chaemchaeng	Judith Ann Lachman	Ronald Michael Yandrofski
	German Alfonso Garcia	Ann Roell Markusen	Jan William Zupnick

COLLEGE OF BUSINESS

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

DEGREE OF MASTER OF BUSINESS ADMINISTRATION

Chris Thomas Allen
Douglas Allan Benson
Rambha Bhoocha-Oom
William Glenn Borland
Alvin Jay Brody
Bruce MacMillan Byus
Byung-Taik Chon
John Philip Coon
Roscoe D. W. Creed
Victor Paul Dhooge
Dennis Richard Diebolt
Douglas Clay Dillon
Hans Jay Dykxhoorn
Douglas Carleton
Fernlock, Jr.
Thomas Patrick Fitzgerald
Simon Frank
William Kime Fuller
Neil Robert Gardner
Stephen James Gilbert
Lorne Walker Gustafson
Donald Lee Holland
Robert Duane Harrison Hook
Howard Trice Hoover

John Lawrence Huckestein
Shaukat Hussain
Atilla Irtes
William Lee Jasper
Gintaras Robert Kastys
Ajaya Kaushish
Timothy Harold Kennedy
Louis Philip Koch
Stavros Konstantinos
Koudounis
Mark Arnold Levett
Lee Bion Lewis
William Allen Lint
Arthur Brown Lumsden
Ronald John McIntosh
John Fremont Merritt
Harley Marvin Michelson
Arthur Paul Narins
Neil Ross Porta
Gabriel Renero Ramirez
David Allen Reichert
William Edward Remus
Reuben Charles Rettke

Donald Scott Robinett
Robert Earle Robinson
Robert David Rolland
Brent Demont Roller
Jose Pedro de Souza Rossi
John William Ruswinckel
Ronald Lloyd Schneekloth
Frederick Cooley Seeley
Patricia Jean Shiley
Chae Sok Sim
Joseph Francis Smith
Richard Lee Snodgrass
Daniel Joseph Soback
David Allen Sonnega
Stephen John Sowle
Akbar Tamhidi
Paul Tang
Alan Douglas Thomas
Stanley Lorin Walker
Ian Colville Watson
Lynn Estelle Weaver
Randy Allen Wightman
Ronald Michael Yandrofski

DEGREE OF BACHELOR OF ARTS

Accounting
Gerald Lee Anderson
H* James Joseph Arlington
Charles Dee Armour
David Michael Arneberg
Palmer Edgar Bunker
Michael Clare Case
Ronald Julius Cornillie
Richard Todd Gray
Gary Louis Hufnagel
Allen Duane Johnson
David Alan Kobylarek
*Victor John McPhee
Terrance Lee Merriman
*Gary Patrick Murphy
Glenn William Peters
**Ward A. Van Dam
John Vandermeiden
H** Frank Joseph Vlazny
*William Arthur Wood

Economics

Robert Stephen Berar
Mitchell Glenn Chandler
Agnes Kathryn Conrad
Rickey R. Coomer
*Mark Wood Copeland
Michael Robert Evans
Kerry Charles Heidel

James Gordon Hodge
Jack William Kennard
Michael Paul Kimball
H Quincy G. Leslie
Kenneth Frank Migdalski
*Mary Terese Rapchak
Cheryl D. Roark
John E. Tesner
H** Arlington Walton Williams, II

Financial Administration

Thomas Leonard Braciak
Mark Douglas Butcko
Chris Myron Claxton
William Robert Hedlund
Claude Vincent Miller
*Charles Eugene Powers
Beth Marie Rowney
*George Roblin Tait, III
Frank Eugene Walters

Food Systems Economics and Management

Thomas Kenneth Antaya
Ralph Richard Burpee
Dennis Riley Kamman
Dennis Wyman Schwartz
Ronald William Sutton

General Business

Administration

Frederick John Boyles
Christopher J. Bullis
*Lynn Alan Carlington
Nancy Virginia Elmquist
Lee Arthur Fletcher
Michael Scott Flintoff
Neil David Goldoftas
Bruce Alan Helmboldt
John Hutto Huellmantel
David I. Hussan
Robert Frederick Lindenfeld
Thomas Joseph Lowry
John William Martinow
Edward Neil McGraw
Lawrence William Mills
Ronald Robert Modlin
Brian Joseph Rorai
Ernest John Roy
John Charles Russell
Michael Burkey Shaffer
Charles Lewis Smith
Eric O. Smith
Ronald George Smock
Richard Edward Sterry
Joseph Michael Vance
James Paul Van Hollebeke
H** Patrick Raymond Van Tiflin
Mark Denedy Walsh, Jr.

COLLEGE OF BUSINESS

DEGREE OF BACHELOR OF ARTS

Hotel and Restaurant Management

James Alexander Beatty
Jeffrey Dorr Collins
H. David Faling
**Thomas Alan Frakie
*Lawrence William Gross
W. Lawrence Halicki
Allan Walter Holody
Peter Charles Kosmas
John Raymond Markle
Dave William McNamara
Robert Henry McRae
Dianne Lynne Meier
Alan Frederick Mertz
Donald Lynn Miller
Daniel Daryl Nieman
David Robert Povlitz
Michael Joseph Rasmussen
*Richard Allen Rawls
Jack G. Reiss
James Edward Roos
Gilbert W. Sherman, II
Thomas Francis Wehrly

Industrial Administration

Gregory Evans Bradbury
Richard Cowan Davis, Jr.
Thomas Charles Penrod

Marketing

Susan Mary Carter
Curtis Edward Cremeans
H* *William Loren Cunningham
Pauline Vera Misjak
Thomas Micaele Park
Robert Craig Shedd
Fred James Timock
John Stephen Tims, II
Robert Allen Whitney
Nelson Dwayne Wood

Personnel Administration

Roy John Hoxworth
John Mansour

Risk and Insurance

Theresa Antonia Konecny

Tourism

Christopher Frederick Born
H* *Suzanne Marie Hamilton
Jann T. Strouse

Transportation

Administration

Robert Samuel Green

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Business Education

Gregory Jon Clugston
Darlene Gayle Jensen
*Lorraine Marie Pruitt
Kenneth Austin Slayton

Distributive Education

Joseph E. Hurst
George Peter Sinadinos

H Honors College
* With Honor
** With High Honor

COLLEGE OF EDUCATION

KEITH GOLDHAMMER, DEAN

GRADUATED SUMMER TERM, 1972

Education

Anna Lee Abendshein
Juan M. Aguayo-Navarro
David Glen Ahrenholz
Geoffrey Allan
Jerry Clifford Allen
Norman Donald Anderson
Astrogilda de Carvalho
Paes de Andrade
Ruth Irene Andrews
Shirley M. Andrews
Judith Brundage Arcy
Donald Martin Arnoudse
Hasim Ayaokur
Bessie Marie Baker
Robert Harold Bannan
Bonnie Jean Bannen
Richard Stephen Banovic
Robert Louis Barcheski
Glenda J. Barkey
James Edward Barnard
Jon Paul Barnett
Barbara Jean Barnum
Nellie E. Barr
Yasar Baykul
Charles Richard Beall
Ernest J. Becker
Donald James Beedle
Catherine Barbara Beer
Robert A. Belk
Barbara Ann Bell
Sally Jane Bell
Georgina Eleanor Bennett
Marilyn Tuthill Berg
Sister M. Gregoria Bernott
James W. Best
Arthur M. Bieri
Michael Robert Bjornholm
Joyce Elaine Blakeslee
Bruce J. Blanding
Gwendolyn Halter Bodine
Kathryn W. Borak
Rodger Allen Borgman
Sharon Yvonne Bough
Michael Terry Boyd
August W. Braaksma
Raymond Russell Bremer
Bill Brinley
Marjorie Joan Brooks
Joyce Jean Broughton
Carol Sue Brown
Johanna Leigh Brown
Joseph Earl Brown

Sister Janet Brown
Karen Lynn Bruner
Rickey Allan Bruner
Sister Helen Bueche
John Raymond Bunch
Anna Mae Margaret Burdi
Esther S. Burstein
Linda Joyce Busick
Gaynelle Stinnett Butler
Bonnie Emilie Butt
John A. Caldwell
Dennis R. Callahan
Jo Ann Stahl Carlisle
Vernon F. Carvey
Thomas William Casteel, Jr.
John M. Chapman
Virginia Chase
Margo Lynn Chi
Linda Leon Choksey
Ruth Adeline Christian
Catherine Lucille Chulski
Cleo Patricia Cleary
Marcia Jean Clone
Sister Magdalena Conway
Sister Mary Carmella Conway
Gaila Rose Cook
Carol Suzanne Cooper
Terrill Ann Cooper
Pamela Jane Corby
William Paul Coughlin
Coreen Cramer
Karen Merle Craven
Bruce Dennis Crawford
Dennis Ray Dalton
Charles Wayne Daniels
Sharon Anne Daniels
Norma Jean Darr
Peter Alan Daunt
David John Davidson
Bertie Witley Davis, Jr.
Arlene Louise DeBoer
Frank Lee Deitrick, Jr.
John A. Denier
Lisbeth Ann Dennis
June Mary Deswysen
William Edward Devine
Martha Packard Dickey
Susan Lynn Diebold
Jack Hubert Discher
Kay Rosemary Dobie
Kathleen Elizabeth Dolan
Patrick C. Dorin
Masuma Downie
Michael J. Doyle

Ramona Bardeau Draper
Robert Campbell Dudley
Barbara Ann Duffy
John Dumala, Jr.
Patricia Jean Dumit
Raymond Harry Durant
Clara Shade Duncan
James Harold Edwards
John Joseph Eells
Sara Messner Ehlers
Dorothy Louise Elliott
Priscilla Camille Espino
Ruth Elizabeth Essenburg
Alice Margaret Fall
Beverlie Drucker Fallik
Marilyn R. Stempihar Fassett
Cecilia Jean Faw
Kenneth Joe Felix
Dennis Patrick Ferreter
Deborah Irene Fine
Shelley Gail Finney
Marilyn Jean Fischhaber
Thomas Matthew Fisher
Eleanor Jane Fitz
Harold Wayne Foley
Edward Ambrose Francis
Patricia Jane Freeman
Ronald Thomas Fritz
John William Furlo
Richard Wayne Garn
George Joseph Gembis
Beverly Ann Gibson
Ronald Ivan Gillerman
Grace Roxina Ann Glassford
James Michael Golden
Mark Alan Goldstein
Joe E. Gonzales
Richard Frederick Goodman
Owen Dickens Goslin
Vicki Van Atta Goulding
Mary Miller Gowans
Lawrence Green
Rosemary Green
Ella Marie Gregoricka
Lyle Wayne Hagerty
Barbara Jean Haines
Nathan Halegua
Ann Louise Hallock
Judith Ann Hancock
Kirby Alan Hanson
Carol Mae Harju
Alan Jon Harvey
Dawn Yvonne Harvey
James Michael Hasford

DEGREE OF
MASTER
OF ARTS

COLLEGE OF EDUCATION

Education (Continued)

John A. Haskin
Georgia Ann Haver
Philip John Hecksel
James Edwin Heenan
Clement Joseph Hermann
Robert Charles Hickson
Phillip Blair Hill
Frances Hinckley
Thomas Brian Hoeksema
Marion Elaine Hofbauer
Sandra Kay Holmes
David LeRoy Holtz
William C. Honey
Norman Lee Honke
Rita Theresa Hopkins
Nancy Jean Hoppe
Patricia Ann Horvath
Celine Hotchkiss
Mitsuo Ikeda
Umporn Intraprom
Sylvia Ann Jackson
Eva Jeanelle Jacobson
Ronald L. Jancek
Elizabeth Jeanne Jenkins
Margaret I. Johns
Lucille Lang Johnson
Marcia Helene Johnson
Tamara Sue Goldsberry
Johnson
Sylvester Jones
Kathleen Anne Jordan
Kathleen Lilian Jose
Edna States Joseph
Sister Emeliana Judis
Josephine Ann Junttonen
William Gerald Jury
Leota Stewart Kajdas
Joyce Lee Kammeraad
Junko E. Kanaya-Adams
Carole Beth Kane
Elaine Barbara Karle
Beverly B. Karp
Patricia Ann Karsten
Richard James Kast
Nancy Mae Katerberg
Thelma Jane Kay
Mary Julia Kayler
Cynthia Anne Kemp
Kenneth R. Kernstock
Linda Louise Kervin
Terry Aaron Kimball
Cheryl Elizabeth Kincaid
William Michael King
Mary Frances Kinsman
David John Kirkby
Thomas John Koop
Richard Allen Kuiper
Shirley Ann Kyle
Marsha Suzanne LaBerge
Mary Winona Lachniet
Linden Charles Lade
Ilona Ilene Lagoni
William Charles La Haie
Janet E. Larsen
Cheryl Dawn LeCompte
Doris L. Leisher
Elaine Sandra Levine

Elizabeth R. Lincoln
Harry E. Litchfield, III
Douglas Wadsworth Little
Charles Richard Lyndaker
Richard Charles Lynes
Constance Simonds
Maddalena
Frank Maddalozzo
Kathryn M. Magarac
Sharon Maureen Maiorano
Soussan Manouchehri
Norman A. Marceron, Jr.
Connie Rae Marchuk
Joan Carol Marshall
Marie Sedlon Marshall
Sister June Mary Martin
James Adam Mason
Marilyn Roffle Maynard
Edward Martin McAleer, Jr.
Ann Hlavka McCall
Ralph Edward McCormack
Sister Judith McCusker, O.P.
Gerald W. McDevitt
James Howard McMillan
Sharon Kay McNeilly
Mary Louise Meeh
Pamela Allison Merrill
Susan Pirnie Millar
Gene Michael Miller
Mary Frances Miller
Donald Mervin Mitchell
Janet Kay Modesitt
Dennis William Mohr
Elaine Joyce Moore
Linda Sue Moore
Dana R. Morris
Ronald Charles Morse
Dorothy M. Mowery
Robert Louis Mulder
William Howard Murray
Craig Thomas Myers
Jean Louise Nash
Jeanette Mary Nassif
Susan Louise Nelson
Anthony Daniel Nolan
Robert John Noordeloos
Erika Ruth Nwankwo
Ibrahim Rifat Okcabol
Robert Jeffrey Olds
John Clifford Olson
David P. Olthoff
Sherry G. Ovatt
Harry Johnson Parke
Mary Jane Parker
Philip Ames Parker
Martha Rosemary Partridge
Marilyn Franey Patton
Marguerite N. Paul
William J. Paull
Janet Marie Peck
Anita Kaye Pellegrom
Carrie Ella Pelon
Phyllis Joan Penny
Louise M. Pinneo
Mary Ann Pittman
Esther Garton Poage
Sarah N. Poirier
Ernest Michael Popiel
Kulthalee Pornpibul

Marilyn Ruth Potter
Alexandra Pontikes Poulos
Sarah Kicklighter Poverud
Sanit Powtong
James Predko
Judith Ann Prelesnik
Charles Allan Preston
Dawn Juanita Pruszyński
Tommi Anne Pugh
Elizabeth Ann Pullen
Norman Richard Puma
Jill Suzanne Purdy
Noreen Anne Pyne
Betty V. Rahn
Judy Lynn Rant
William F. Reiher
Rita Delia Remus
Ellen Claire Reslock
Wilson L. Rice
Karen Sue Riggs
Karen Ritter
Karen Rose Ritts
Mary Margaret Robertson
Ward Hill Robbins
Charles Frank Robinson
Reginald Alphonse Robinson
Bruce Carl Rochowiak
Edward Francis Rodgers
James Patrick Roettger
Bruce Edmund Rogers
Cheryl Eve Rosenthal
Patricia Jean Rouillard
Diane Marie Rowden
Nina Grace Rumery
Alice Marie Sabitis
Margaret Ann Sandberg
Elizabeth Marie Sanglier
Roberta Buckles Sargent
George August Sarns
William Clyde Satchell
Marian Marie Sawka
David Lyle Sawyer
Charlena Howard Schenck
Janet Fay Schimmel
Bette Jo Schmerheim
Gerald Arthur Schmidt
Wayne Phillip Schmitz
Karen Margaret Schoch
Larry Curtis Schroeder
James Lyle Schuchard
Sandra Elaine Schwartz
Virginia R. Scott
David Lawrence Scoville
Franklin Andrew Sebastian
LouLease Graham Sellers
Edith Schmeiser Sendich
Noel Edward Senecal
Stephanie Senecal
Donna Jean Seney
Shahnaz Sharghi
David Lawrence Shaub
Susan Jean Shepherd
Barbara Jean Hutchins Shiery
Judith Schultert Shimmel
Carolyn Simmons
Eric Norman Simmons
Mary Lynn Simons
Gilliard Bowden Sims
Charlotte Sue Sinadinos

DEGREE OF
MASTER
OF ARTS

COLLEGE OF EDUCATION

DEGREE OF MASTER OF ARTS

Education (Continued)

Linda Dianne Skale
John A. Skoglund
Reuben Robert Smartt
Joyce Ann Smith
Margaret Helen Smith
Veta Lynette Smith
Virginia Sanders Smith
Hugh Everett Smyth
Gerald Edward Snyder
Shirley Irene Sokolowski
Pamela Marie Sorokin
Craig S. Sparks
Jeanette Fay Sprik
Linda Clark Stahl
Ann Stephanie Stano
Kermit H. Starkweather
Karen A. Steve
A. Beverly Stinnett
Norma Miller Stone
Sandra Sue Streit
Adeleen Nancy Sudac
Jean Eleanor Suwyn
Irving R. Sweeney
Joseph Ernest Szalay
Elaine Joyce Tarrant
Paul Allen Tate
Katherine Ann Temple

Thomas King Terry
Richard George Thomas
Arla June Thomasma
Jane Louise Thomasma
Robert K. Thorburn
Wallace Walter Threlkeld
Minnie Thompson Tillman
William A. Tolbert
Bonnie Gail Toskey
Jennell Kay Townsend
Peter L. Trosko
Lucia Starling Turnbull
Willie Warren Turner
Patricia Weigel Utter
Burton John Valanty
Peter Selby Vance
Robert John Vande Guchte
Nancy Jean Vandenberg
Elizabeth Anne VanderWeele
Celeste Agatha Van Zyl
Rachelle Natalie Varon
Brent Wilmot Veysey
Elizabeth Ildiko Vigh
Howard Julian Visser
Patricia Ann Vitz
William J. Voet
Fred L. Vonalt
Edison Eugene Vorhes

Carol Mae Wagner
Mark Samuel Wallach
Dianne Sue Waltz
Joan Ann Laura Warren
Beatrice Vance Webb
Brenda Lee Webster
Kenneth Lloyd Webster
William Eugene Westhauser
Donald Eugene Whitaker
Mary Frances Wichman
Ann Margaret Wightman
Leroy Williams
Lou Jean Willis
F. Georgann Wing
Leona C. Wisniewski
David John Witteveen
Mohammed Nassir Wohaibi
Duane George Wohlfert
Douglas Robert Wood
Suzanne Mae Woodroe
Leonard E. Woods
Sister M. Dorita Wotiska
Dorothy M. Yancey
Dennis Lee Yeager
Esta Marie Yoder
Marilyn Kay Yzenbaard
Mary Bush Zeerip
John Orvy Zinn

CANDIDATES — FALL TERM, 1972

Education

Patricia Anne Angel
Jon Neil Armstrong
Margaret A. Atkins
John Frederick Baker
Gaylon Rhodes Barham
Walter Charles Barwick
Valerie Dunn Bastoni
Janice L. Bauer
Rodger Norman Bell
Susan Victoria Berry
Harold L. Bessert
Doris Warner Betz
Carol K. Bickenbach
Mary Jo Birks
Sally Ann Blessing
Lois Ilene Blocher
Michael Joseph Bobik
Michele M. Boutwell
Connie Sue Bowman
Ann Boylan
Dorothy Louise
Adams Brayee
Nels Edwin Bullock
David James Campbell
Mary Lee Capers
Rene Carbajal
Anita M. Clark
Gary Kenneth Clone
Richard Thomas Cole
Dallas Coleman, Jr.
Kathryn Arlene Dahlberg

Richard Laurie Dolph
Alfred Andrew Eger
Nattitnee Euachongprasit
Curlada J. Eure
Douglas Paul Ferguson
James Ellsworth Ferguson, Jr.
S. George Field
Charles Bruce Fillmore
Mary Kathryn Fitch
James C. Foster
Robert B. Foster
Julie Ann Foust
MaryElizabeth Fouty
Virginia Mary Fox
Gary Cooper Freeman
Larry Jay Frielink
Martin Richard Gardner, Sr.
Robert Jean Gardner
Robert William Gast
William Walter Gertz
Kathryn Grim
Merle Bradley Haines
Patricia Ann Harp
Constance Margaret
Henneberry
Linda Lou Hill
Rachael Elaine Howe
Charles Edward Hudson, Jr.
Margaret Iams
Yvonne Frances Irvin
Shamima Islam
Janet May Johnson
Marson Harry Johnson

Sandra Elizabeth Jones
Cheryl Jean Judson
Randy Scott Kahn
Norris James Kinneberg
Kenneth Francis Konesny
Carol Ann Kowalewski
Ronald Frank Kowalewski
Marion Dale Lage
Robert Allen Larson
Donald C. Lawless
Margaret Francine Lawrence
Corwin Walter
Legleitner, Jr.
Moises G. Leon
Gilbert Edward Leslie
Yueh-Lie Julie Liu
Clara Louise Logan
Joyce Lorraine Malin
Craig Edwin Marsh
Janet Walker McClelland
Frances Marie McGuire
Shirley Alison McIntosh
Barbara Kaye McKenzie
Thomas Doran McKie
Janice Lee McMillan
Patricia Marie Meurer
Debora Jane Molden
Paula Monderer
Albert Vance Mulligan
James Alvin Nealy
Lorna Marie Nitz
Carlos Luis Olivarez
Shirley Joyce Partin

DEGREE OF MASTER OF ARTS

COLLEGE OF EDUCATION

DEGREE OF MASTER OF ARTS

Education (Continued)

Charles Richard Patton
Robert Charles Paulson, Jr.
Leif Wayne Peterson
Jack Louis Pettet
Joyce Sibyl Potote
David John Pullen
Narong Rakratanakhon
Carolyn Ann Reichert
Zoe Ann Ritchey
Marybeth Mehlberg Robb
Betty Arleen Rogerson
Karen Fitzpatrick Ruschmeier
Laura Ann Ryktarsyk
Gail Ann Saks
Ronald Emedio Santavicca
Ronald F. Sevcik
Joan Jeanne Shepard
Robert Benjamin Siggal
William Jeffrey Snarey

Margo Mae Snively
Robert Charles Snyder
Janet Marilyn Sotak
John Thomas Staten
Jose A. Straga H.
Michael Caley Strange
Kenneth Porter
Stubblefield, Jr.
Somyos Subyen
Dale Thomas Suminski
Susanne Faye Sunshine
Lee Laurence Swartz
Anne Elaine Swingle
Sriyard Thaosand
Kathryn Ann Thomas
Susan Clark Thomas
Mayuree Tinnimit
Carolyn Kaye Toth
Kathryn Debra Towe
Richard Wilton Trethewey
Carl Scott Trimble

Paul Stuart Tungate
Robert James Ulrich
Marjorie R. Vander Molen
Geraldine Burns Vaughns
Marlene Jane Veldheer
Emma Gene Vert
Virginia M. Voorhees
James Boyd Wadlington
Gwendolyn Ann Weaver
Dell John Weitzel
Phyllis Kay Welsch
Carol Elizabeth Wiegand
David Jön Williams
Marilyn Sue Kendrick Wilson
Sandra Carol Wilson
Dorothy Jean Wysack
Ozcan Yaliner
LaVerne Mae
Harper Youngblade
Pamela Breakey Zachwieja

DEGREE OF BACHELOR OF ARTS

Elementary Education

*Patricia Jan Adamy
Jill P. Adler
Lana Joy Adomaitis
Kathryn Dianne Albright
*Sheryl Louise Allen
*Nancy Beth Alsover
Ghazala L. Baig
Thomas Allen Benner
*Susan Lee Binder
*Candice Maria Bixman
*Beth Alison Borton
Deborah Ann Bower
*Sandra Lee Branch
Bruce Brunson
Christy Ann Burman
Leslie Christine Burner
Marcia Sue Burradell
Lee Anne Bury
*Jane Ellen Buth
Pauline Flack Cannon
Susan Elizabeth Carne
*Mary Hélène Christie
Dolores Virginia Cook
Judith Ann Corcoran
*Carolyn Lea Core
Nancy Sue Corey
*Nancy Jean Crook
Susan Loraine Curtis
David Jon Cushman
*Linda Lou Davis
Maureen Carol Docherty
Lorna Diane Durand
Molly Graham Ellis
*Willard Edward Ermel
Jane Ann Ferguson
Kathryn Jill Folkmier
**Anne Marie Forbes

Dorian Jean Ford
Gregory Michael Gagnon
Karen Germaine
René Lisa Gibert
*Sharon Ann Gorman
*Sue Ellen Green
Patricia Marion Hainline
Gerald Gene Hall
*Cynthia Lee Harrington
*Robert Nathan Hartwell
Maida Kathleen Henning
Kathy Kading Hynes
Nancy Kay Jacobs
H* Cynthia Louise Jankens
Leslie Rainell Jennings
Glenda Faye Johnston
Jennifer Jones
Anne Louise Lago
Theresa Gene Lamberson
Mary Elizabeth Laula
*Sharon Elizabeth Lee
*Susan Limbocker
Ervin Lofton
Jacqueline Markiewicz
Jean Wiener Martin
Bonnie Marie Martyn
Wilma Jean Marunick
H* James Duncan McDonnell
Madelyn Mary McDonnell
Judith Lynn Meyer
Karin Dawn Miller
Kristine Debra Miller
*Kathleen Ann Misze
Betty Anne Montie
William Charles Moore
Mary Elizabeth Morgan
*Rena M. Moye
*Juanita Lynn Nielsen
Marsha Jane Nolen

*Florence Louise Nye
Rosemary P. O'Keefe
*Karen Ann Ornalik
Karen Rozier Phillips
*Bette Jean Pierce
*Norma Jeannine Pryor
Rebecca Sue Reinhardt
*Ruth Rios
Christine Louise Robinson
Bart Rypstra
*Susan Lee Saretsky
*Beverly Jean Schmidt
*Victoria Ann Sealock
Kathy Jo Seelinger
Joyce Ellen Simmonds
*Annette Clare Skellenger
Laura Jane Slavinsky
*Juanita Margaret Smith
Ruth Ann Smith
Laura Ann Spencer
Donald Eugene Steiner
Barbara Blackwell Stockton
*Julie Ellen Storbeck
*Jo Ann Sutter
*Elaine Joyce Terpstra
Linda Margaret Terrio
Sherry Fern Tessler
Donald Wayne Tomas
William Vincent Topalian
*Kathleen Mary Turner
*Eileen Marie Walsh
*Doris Ruth Welke
Lillian Jane Weston
*Catherine Mary Wheeler
Anthony Kenneth Whiren
*Cheryl Lynn Wild
David Arthur Young
*Kathleen Ann Young
H* Linda Louise Zander

H Honors College
*With Honor
** With High Honor

COLLEGE OF EDUCATION

DEGREE OF BACHELOR OF SCIENCE

Health, Physical Education and Recreation

Leonard James Baldori
*Pamela Gayle Cornish
David Paul Coward
Susan Irene Fillmore
Gilles Emile Gagnon
*Cathleen Anne Higgs

David Robert Leisman
Duane Leon McLaughlin
Carol Faye McMorris
Sandra Lou Raines
Jill Susan Rollinger
Donald Joseph St. Jean
*Joanne Lee Warner
Cheryl Lynn Weiss
Sue Ann Wrigley

Industrial Arts

Roger Lyle Davis
**Harley Gene Foxworthy
Rodney Lee McMichael
*Larry A. Miller
Harry L. Oldenburg

* With Honor
** With High Honor

COLLEGE OF COMMUNICATION ARTS

HERBERT J. OYER, DEAN

GRADUATED SUMMER TERM, 1972

DEGREE OF
MASTER
OF ARTS

Advertising

James Philip Cattanach
Donald Stuart Kreger
Marcia Anne Moyer

Audiology and

Speech Sciences

Sherrill Kay Ankli
Larry Jerome DeNeal
Dennis Creig Duncel
Janis Lynn Forbord
Beth Ann Goldsword
Anne Elizabeth Kesling

Janice M. Klein
Patricia Gail Larkins
Julie Ann Lathrop
Lynn F. Mackler
Carol Ann Macneil
James Frederick Naas
John Ralph Pater
Margaret Ann LaCombe Rose
Marilyn Ellen Sachs
Annette Marie Smith

Communication

William Carter McDonald
Joseph Albert Schmitz
Charles Albert Williamson

Journalism

Jack Benny Gladden
Robert Blackwell Kilborn, Jr.

Television and Radio

Mark D. Baldwin
Anna Marion Baum
Michael John Brunette
James Cash
John Andrew Kichi
Robert Gary Leffler
Joan Henry Lewis
Kim Peterson
Lawrence Sheldon Rudner

CANDIDATES — FALL TERM, 1972

DEGREE OF
MASTER
OF ARTS

Advertising

James Francis Rowean, Jr.
Jack Allen Smith

Audiology and

Speech Sciences

Kristine MacKain King

Communication

Sandra Lynn Filion
Robert John Hamilton
Brian L. Hawkins
Upali Nanayakkara
Ted Jay Smith, III

Journalism

Judith Lucille Burken
James Easterly Walker

COLLEGE OF COMMUNICATIONS ARTS

DEGREE OF BACHELOR OF ARTS

Advertising

Richard L. Coletta
Peter Joseph Farago, Jr.
Mary Ellen Fons
Cathy Lynn Fox
Nicol Weatherston
Gordon, III
David Ray Hatch
*Jane Trepanier Hoadley
Robert Louis Huyser
Molly Patricia Levin
Kathleen Sheridan McNitt
Terry Carl Mekash
H**Nancy Lois Tschirhart
Kenneth Michael Vilag

Audiology and

Speech Sciences

L. David Biber
**Judith Ann Holloway
Peter Renwick LaPine

Communication

Boni Lynn Ballew
**Betty Louise Blaske
James Arthur Curtis
Nancy Jane Holcomb
John Michael Jenkins

*Deborah Dunsmore Kimball

*Nancy Gail Nahigian

*Daniel Kerby Smith

Mary Rose Spicer

H**Richard Lowell Ziegler

Journalism

Carl Ray Anderson

Mary Margaret Brown

Deborah Kay Cable

*Marta K. Dodd

Russell Gary Garrison

Penny Jean Good

Richard Edward Gosselin

Timothy Francis Hughes

Linda Knight Kerner

**Wendy Lee Mager

Diane S. Petryk

Linda Jeanne Vernon

Steve Arnold Wozniak

H**Karen Jeanne Zurawski

Television and Radio

Joseph Michael Bilitzke

Walter Bremer

Sherrie Renae Carter

John Cleveland Garofalo

Kim Kurth Garwood

Gregory Jolly

John Charles Keller

David Llewellyn McIntire

Terry Jon McPhetres

William Edward Meneghin

Stanley Edward Need

Patricia Sandra Nickoloff

Michael Alan Noe

Jeanne Carol Norcross

Willettta Ada Pipes

Christopher Alan Russell

Jerome Sikorski

Aristids Velde

Christopher Mark

Kierstead West

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Audiology and

Speech Sciences

Janice Marie Fuller

Elrae Lynn Herp

Suzanne K. Krusheski

Communication

**Stephanie Kay Asher

**Paul Richards Jones

COLLEGE OF ARTS AND LETTERS

RICHARD E. SULLIVAN, DEAN

GRADUATED SUMMER TERM, 1972

DEGREE OF MASTER OF ARTS	<u>Art Education</u> Elaine Liou Martha Jean Lynch Frank Stuart Philip William Lee Rodgers Joseph Allen Stith	Wolfgang Dieter Schwarz Robert MacDonald Stewart Suzanne Elaine Thaler Jane Charlotte Wilcox	Jack Edward Butterworth Ronald Preston Byars Joseph M. Donnelly Roger Elton Dunckel Marsha Cox Hare Jeffrey David Hupert Barbara Joy Kroeker Jacqueline Rhea Mieras
	<u>Art Practice</u> Nadine Joy Meyers Diane Elaine Nessing Constance Lee Okwumabua	<u>English-Secondary School Teaching</u> Elizabeth L. Carey Anna-Maria Ignatovich Gregory Curtis Kamm Judith M. Petersen Carolyn Marion Richman Elizabeth Anne Sullivan Jill Rae Van Antwerp	<u>Linguistics</u> Agavni Zambak Yeramyan
	<u>English</u> Gloria Faye Dryer Karla Francesca Clapp Holloway Phyllis Ann Jose Carol Jeanne Nelson Shirley Gutkowski Olejnik Charles Joseph Quinn, Jr. Nancy Lisa Reutter Kathleen Elizabeth Schacht	<u>German</u> Reinhold Karl Bubser Nancy Jane King	<u>Philosophy</u> Raymond F. LaRocque
DEGREE OF MASTER OF FINE ARTS	<u>Art Practice</u> Savas Atvur Evelyn Ann Scafuri Bobbie Whyte Thomas	<u>History</u> David Lee Brown	<u>Theatre</u> David Michael Firestone Donald Emile LaCasse, Jr. Sister William Francine Mc Carty, O.P. Jacob B. Pell
	<u>Applied Music</u> Gary Jerome Dobbins Judy Dawson Dobbins	<u>Music Education</u> Gary Paul Ambrosier James Herbert Hunt	William John Laesch Douglas Ami Laing Norma Louise Smith Jean Elvera Wilson

COLLEGE OF ARTS AND LETTERS

CANDIDATES — FALL TERM, 1972

DEGREE OF MASTER OF ARTS

Art Education

Nancy Stanton Bateman

Art History

Ann Stewart Howard

Comparative Literature

Daniel L. Rosochacki

English

Melody Lynn McCollum
Quentin Charles Reader
Judith Ann Thelen

English-Secondary School

Teaching

Sharon Lee Beal
Raul Flores Salinas

German

Douglas Krage Parrish

History

Peter Clement
Mashaan Mohammad Deij
Learthen Dorsey
Kensuke Ishii
William Tower Powell
William George Savage
Dennis Peter Spande
Robert James Westveer

Linguistics

Chantavit Chaemchaeng
William Carl Server

Musicology

Stuart Jay Ouwinga

Philosophy

Jorg Baumgartner
Dianne Leslie Coin
Donald James Fermoyale

Russian

Donna Lara Zakoworotny

Spanish

Rosann Petrella
Betty Lamb Villarroel

DEGREE OF MASTER OF FINE ARTS

Art Practice

Gonz Badaracco
Eva Safar
Allen Schindel

DEGREE OF MASTER OF MUSIC

Applied Music

Judith Lee Connelly
Louise Catherine Hohmeyer
Susan Ann Shane

Music Education

Daniel Walker Hill
L. J. Nickerson

DEGREE OF BACHELOR OF ARTS

Art History

Marilyn Ruth Cronkrite

Art Practice

*Marsha Ann Bailey
Susan Mae Cabell
Luba Maria Kruk
*Laura Mary Langdon
Barbara Schiefer Metcalfe
Deborah R. Nelson
**Marilyn Mohr Perreault
*David L. Veltkamp
George Thomas Winberry
Merrie Ann Young

English

William Walter Babcock
Dorothy Byington
**Sarah Beebe Fryer
Gayle Ann Hannula

H Honors College
* With Honor
** With High Honor

Joseph Eugene Hook
H**Kaye Marie Kruger
**Julie Ann McNerney
H*Granville Wayne Mitchell
Patricia F. O'Connor
Nancy Ann Pitsch
H**Robert Wesley Sealock
H**Robert Bruce Stevenson

French

H**Leslie Ann Burns

German

**Joseph Lawrence Brockington
H**Sarah Lynn Vaninger

History

*Thomas Richard Bernitt
David Stephen Cangelosi
Alwin D. A. Figaro

Eveline Grace Glover
H**Kristin Leigh Moffat
Bill John Morey
Joseph Samuel O'Connor
David Swinnerton Owen
*Kenneth Joseph Potts
Wolfgang Helmut Puett
Roderick Joseph Ritchison
David Harris Tanner
**Carlene Galligan Walz
H**Joseph Edward Wiley
*Wayne Victor Wilson

Humanities

Michaeline Czerniak
Gordon L. Hall
Patricia L. Lamb
**Rosemary Ann LaVasseur

Humanities Pre-Law

William Alexander Despo

COLLEGE OF ARTS AND LETTERS

DEGREE OF BACHELOR OF ARTS	<u>Philosophy</u> Gerald F. Chamberland Noreen Mary Collins H*Allan Matthew Hart **Kenneth Ross Howe H*Elizabeth Veronica Malone H*Diane Norma Nocera Shirley Jean Nordhaus *Scot Thomas Piereson	DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION <u>Art Practice</u> *Susan Jane Cook Anthony Vincent Ferrari Beverly Jean Goodman Laura Lee Sherf Linda Sue Tomka *Rosanne Kay Van Wiemeersch	<u>German</u> H**Nancy Ruth Elmore
	<u>Religion</u> H**James Michael Lipsey	<u>English</u> Susan Gail Bailo *Carol Lorraine Bates Nancy Susan Davis *Patricia Anne Hazel **Karen Ann Thompson Irish *Josephine Marie Krakowiak *Glenda Vernae Nalls Walter Owoc, Jr. *Susan Ellen Peterson H**Robert Bernard Sickels H**Deanne Elyse Sovereign Suzanne Marie Stasa Robert Arthur Wellhoff	<u>History</u> Jorgen Eric Bodker *Sharon Anne Kucinski DonPhillip McKee *Carolyn Schultz *Dan Peter Skorich Frank Salvatore Terranova *David Charles Thompson **Deborah Kay Williams
	<u>Russian</u> H*Peter Howard deZeeuw Granville W. Hurlong, III	<u>French</u> H**Sally Jo Sieloff	<u>Latin</u> Michele Margaret Bosch
	<u>Theatre</u> Connie Lee Ruffner David Eino Siljander *Judith Mary Wright		<u>Spanish</u> Florestela Alemán Fuentes Jeana Gail Shappee H*Jennifer Lee Toles Abel Barboza Torres
DEGREE OF BACHELOR OF FINE ARTS	<u>Art Practice</u> Brian George Dipietro H**Susan Jean Eriksen Bozena Antonina Granowski *Pamela Jill Gustafson	James Michael Leterneau **Gregory Lee Limmer Robert Craig Maxwell Charles W. Starkey David Noel Work	DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION <u>Art Practice</u> *Valerie J. Baas H**James Anthony Quinn
	<u>Music Theory-Composition</u> *William John Schneider	DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION <u>School Music</u> Judy Lynn Dale H**Alice Laura Dearden *Wendy Ray William Charles Schirado	<u>School Music and Music Therapy</u> John August Anderson, Jr.
DEGREE OF BACHELOR OF MUSIC	<u>Music Therapy</u> Margaret Frances Armstrong H**Barbara Reed Cobb *Judy Marie Schreur		

H Honors College
* With Honor
** With High Honor

COLLEGE OF NATURAL SCIENCE

RICHARD U. BYERRUM, DEAN

GRADUATED SUMMER TERM, 1972

DEGREE OF
MASTER
OF ARTS
FOR TEACHERS

Biological Sciences

John M. Fricke
Ella M. Martin
Theodore Austin Nelson

General Science

Paul Randal Engle
David Paul Reynier
John Thomas Worthington

Mathematics

Raymond Arnold Anderson
Jerry Lynn Parker
William Francis Stevens
Janice Wojnar

Planetarium Education

Robert John Bologna
Jon Alan Marshall
Robert Donald Miller

DEGREE OF
MASTER
OF SCIENCE

Biological Sciences

Kathleen Mary Angel
Thomas Charles Denman
Jeanne Marilyn Goyette
Thomas Bruce Hayes
John F. Hepler
Joseph Anthony Hindle
Judith Ann Kickland
Edward Lyle Leland, Jr.
Richard John Mundy
Sister Ellen Marie Powers
Robert Parry Rye, Jr.
Norman Leroy Towers
Donald William Ullman
Charles L. Wolverton

Biophysics

Robert Childerhose
Switzer, III

Botany

Kofi S. Amuti
Benjamin Jimenez-A
Darlene Marie Valasek
Keith Sem Yoder

Chemistry

Jacqueline Grace Huerner
Patricia Sheely Mason
Margaret Kandelin
Sutherland

Geology

Dale Aaron Delmet
James Waton Kennedy
John Joseph Orzeck

Mathematics

Ali Behforooz
John Elvin Boyer, Jr.
David Lee Cotton
Ronald Warner Jean

Microbiology

Steven Glenn

Physics

Dennis Glen Piper
Paul John Singleyn
Carolyn Ann Stirrat

Physiology

Douglas Williamson Bierer
David Edward Dobbins

Statistics

Phyllis Ann Smith

Zoology

Daniel Lee Bratt
Leonard Elliot Evans
Sue Ann Macrellis
Mary Beth Moore

CANDIDATES — FALL TERM, 1972

DEGREE OF
MASTER
OF ARTS

Mathematics

Harlan West Stech
Lawrence Claude Walsh

COLLEGE OF NATURAL SCIENCE

DEGREE OF

MASTER

OF ARTS

FOR TEACHERS

Biological Sciences

Jill Losee Hoehlein
Roland Max Wilson

Mathematics

Robert Duane Ringle

Applied Mathematics

Robert Allan Love

Entomology

James Kenneth Brody, Jr.

Physiology

Michael Peter Johnson
Janet Smith Parker

Biological Sciences

Eric Sven Dahlberg
Douglas Harlan Kleinsmith
Kurt Vincent Schmidt

Geology

Christopher Stevens Plopper

Statistics

Loy Warwick Fitz
John Mathieson
Luis G. Moreno
Ioannis Nikolaou
Theodorakopoulos

DEGREE OF

MASTER

OF SCIENCE

Botany

Peter Richard Bristow
Kelton Ray McKinley
Dean Kingsley Ray, Jr.

Mathematics

Ganiyu Ademola Badmus
Barbara Lynn Bennett
Gary Alan Clawson
Douglas Arison King

Zoology

Sally Jean Cullen
Daniel Arthur Friderici
Terry Jon Hassold
Gary Lee Marsiglia
Charles James Schweigert
Chip Soetjip

Chemistry

Irvin David Crossan
Robert Lewis Foester
Jeffrey Alan Witt

Physics

Steven Christopher Ewald
Richard Charles Liedtke
Paul D. Zemany

DEGREE OF

BACHELOR

OF ARTS

Mathematics

Lawrence Edward Dunn

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Mathematics

Robert Paul Wood

Biochemistry

Warren J. Coon
*Elon James Gasper
H**Joseph Paul Miletich
H**Jean Louise Roberts
William Thomas Rudman

Entomology

James Arthur Cole

Geology

*Gary Allen Runyon

Physical Sciences

Margaret Rose Roblee
Jack Edward Veenhuis

Biological Sciences

Judith Ann Ball
Gary Alan Feldhus
Ben James Hampton
Rodney J. McLaughlin
Christine Ann Nalepa
H**Susan Kay Rutledge
Martha Lee Sherman
Thomas John Stamp

Mathematics

Peter Dodge
H**John M. Francini
Christine Marie Greenamyre
H**Virginia Hennigar
*Sandra Joan Overway
H*Patricia Kay Saunders
H**Paula Marie Zera

Physics

*Thomas C. Burt
**Ronnie L. McCrum
John Carl Svercek

Physiology

John Francis Kent
**Suzanne Marie Konopka

DEGREE OF

BACHELOR

OF SCIENCE

Chemical Physics

James Byron Dubke

Chemistry

**Roney Joseph Matijega
**Patrick B. Smith

Microbiology

*Anees El Batool
Donald Gerald Bergmann
Robert I. Farmer

Nursing

Linda Sue Wheaton

Zoology

*Thomas Warren Glover
David Lawrence Granger
*Raymond Edward Hogg, Jr.
Cynthia Frances Keller
*M. Kathleen Kelly
*Carol Ann Kuemmel
H**Susan Marie Lasher
*Jean Alayne Lawton

H Honors College
* With Honor
** With High Honor

COLLEGE OF NATURAL SCIENCE

DEGREE OF BACHELOR OF SCIENCE	<u>Zoology (Continued)</u>	DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION	<u>Mathematics</u>
	Michael Gerald McCormick	<u>Biological Sciences</u>	Bruce Evan Bos
	*Jeff Clare Proudfoot	Timothy Ray Schirmer	Carl Andrew Christenson
	*Thomas Russell Runquist	<u>General Science</u>	*Sharon Rose Flachs
	H**Stephen P. Schiffer	*Lenora Kathleen Haeussler	Wing Wah Lum
OF SCIENCE	Barbara Ann Schumacher	<u>Geology</u>	Muriel VanRiper Moten
	Mark Alan Smith	Donald Bernard Weber	Linda Marie Petlichkoff
	Nancy Kay Thompson		Deidra Patricia Petross
	Marshall Burton Wehr		James Sebastian Rossio
	H**Steven Harold Weiss		<u>Physics</u>
OF SCIENCE	**Douglas Frank Zeilman		H**David P. Callaghan
			<u>Zoology</u>
			**Dorothy Fay French

H Honors College
* With Honor
** With High Honor

COLLEGE OF SOCIAL SCIENCE

CLARENCE L. WINDER, DEAN

GRADUATED SUMMER TERM, 1972

DEGREE OF MASTER OF ARTS

Anthropology

Jane Bushong Haney
Shela A. McFarlin
John Allan Mock
Judith Dunn Tordoff

Geography

Eugene Keith Dayton, Jr.
Keith Edwards
Arthur William Vander Ven

Psychology

Alonzo Benjamin Anderson
Richard A. Feinberg
John Carl Lange
Ginette B. Langer
Lorraine Carol Leonowich
Suzanne Power Marshall
Cynthia Hansson Null
Raymond Penney
Joyce Louise Pennington
Linda Ann Stevenson
Marguerite Barratt Stevenson
Carol A. Trufant

Social Science

Robert C. Davis
Gregory James Gavrillides
William Peter O'Hare
Patrick Samuel Werner

Sociology

William Patrick Boss
Michael M. Loukinen
Robert William Prentice
Sherry Sank

DEGREE OF MASTER OF LABOR AND INDUSTRIAL RELATIONS

Mark Fremont Baker
John William Bottorff
David Daniel DeCamilla
Edward James Hermoyian
John Michael Hilley

James Edward Ilnicki
Jay Sandzoz Lowrey
James Byron McWhorter, Jr.
Therese Louise Mozuch
Steven Norman Riggs

Michael Cosmo Sigona
Gilbert Wakely Sutcliffe
David Lund Troutman
Patrick Marc Wilkinson

DEGREE OF MASTER OF SCIENCE

Criminal Justice

Steven A. Egger
Zolton Anton Ferency
Donald Paul Greenwald

John Wesley Ingersoll
John H. Marshall
William Craig Nash
James Michael Poland

David F. Smydra
John T. Voss
David Thomas Walker
Joseph Larry Wilson

DEGREE OF MASTER OF SOCIAL WORK

Hazel Bosma Woudenberg

DEGREE OF MASTER IN URBAN PLANNING

Roger William Bardsley

Michael James Cecka

Dennis Paul Tishken

COLLEGE OF SOCIAL SCIENCE

CANDIDATES — FALL TERM, 1972

DEGREE OF MASTER OF ARTS	<u>Anthropology</u> Laura Jane Barwicke Luis Berruecos Salvador Herrera	<u>Psychology</u> Ellyn S. Bader Barbara Jo Brandt William Jennings Brown, Jr. Jerry Carl Eyer Fred Fallik Cynthia Louise Haas Gregory Edward Huszczo Hugh Edward Jones Lynn Thomas Keith Martha Kent Ronald Curtis Kidder Lawrence Langer Karen Rasmussen Lounsbury Keith Edward Lyon Joan Rae Nuttall Sandra Kay Pinches Josephine Pottinger Alida Diane Quick Kenneth L. Salzman David Morris Schnarch	Jeffrey Robert Schreiber Harold S. Steinitz Leon Darryl Thomander Linda Mary Walker Joseph R. Webber Nancy Katherine Wovkanech Kenneth H. Zimmerman
	<u>Geography</u> Yousry Elsaid Farrag Juanita Gaston Gloria J. Hecht Pondexter Hobdy, Jr. George Alan Tillema		<u>Social Science</u> Larry Wayne Bailey Joel Cavazos Dennis Harry Morse Ester Ramona Thomas
	<u>Political Science</u> Judith F. Corliss Michael V. Haselswerdt Andrew Douglas McNitt Robert Andrew Niven James Henry Seroka John Frederick Strough, Jr.		<u>Sociology</u> Geraldine Mary Cook Philip Neal Fulton Christopher P. Pilotti Diane Ellen Seagreaves
DEGREE OF MASTER OF ARTS FOR TEACHERS	<u>Geography-Secondary</u> <u>School Teaching</u> Duncan Orn Wyeth		
DEGREE OF MASTER OF LABOR AND INDUSTRIAL RELATIONS	Jan Waldemar Bond Thomas George Cardy Michael Frederick Cook Paul Edward Cook, Jr. James Barclay Crawford James Michael Gibbons Francis Joseph Graeber	Ronald Leo Grence Linda Joan McLalin Martha Coon Mertz Michael Joseph Petrack Mark Burton Phillips Tom Kilmer Pollard Robert F. Ruby	Robert Charles Schlegel Joel Richard Sorensen Stephen Carl Steiger Daniel Duane Sveller Charles Thompson Dennis Jay Thornberg Peter Story Walters
DEGREE OF MASTER OF SCIENCE	<u>Criminal Justice</u> Fahed Rashed Al-Tahous Dennis Duane Bryde James Edward Cox Jeffrey L. Eubank James Alan Keyes	Michael Jon Panetta Ronald Andrew Soltis Robert Charles Spratt Mike Stacy Sheng Yih Su Hervey Alene Taylor, Jr.	William Stephen Tolliver Raymond Lester Walters Joseph Alfred Wittebols <u>Geography</u> Zsuzsanna Gyeszli
DEGREE OF MASTER IN URBAN PLANNING	Sharon Anne Bond Gerry Edward Fein	Alvin Thornton Holman Shyh Aur Shao	

COLLEGE OF SOCIAL SCIENCE

Anthropology

- *Clifford Allen Behrens
- Deborah Jane Degerness
- *Betty Jo Farkas
- Michele Anne Kelley
- *Conny Lee Malik
- Charles Ernest Minihan
- *Virginia Lee Wallace

Geography

- **Eric H. Bauman
- H**James William DeWitt

Political Science

- John Anthony Bettencourt
- Kenneth Allen Broder
- *Burton Alexander Casteel, Jr.
- Wayne Martin Gershon
- Donald Joseph Krouse
- *Kristin Ann Leipzig
- Richard William Maxwell
- Kathleen Jean Pavlic

Psychology

- Donald Michael Cohen
- Ronald Raymond Fielhauer
- H**Gail Elizabeth Gillenwater
- Mary Louise Gotch
- *David G. Green
- Dorothy Eileen Hammond
- Carol Luisa Jackson
- Betty Juan Lee
- David Lee
- Thomas J. Leonard
- H**Mary Susan Lyon
- Cathleen Ann Markey
- Carol Lynn McClement
- *James Michael McLott
- James William Newman
- *Gregory R. Pennington
- Diana Veronica Rodriguez
- Kathleen Mary Ryan
- Arlene Alice Schwalben
- *Suzanne Marie Smith
- Alison Jane Tufel
- John Frederick Vogl

Social Science

- Robert Eugene Allen
- James Sheridan Baker
- Walter Frederick Bauer
- Dennis Earle Belmont
- Chandler LeVaughn Blake
- H**Marilyn Lisa Bottner
- *Lynn Dean Bowne
- *John Telin Bristol

- Richard Dorsey Chaput
- Ty Eugene Conklin
- John Charles Cunningham
- Robert Brian Davidson
- Harry Davis
- Larry Davis
- *Patricia Ann Dillon
- Shephen LeRoy Engelhardt
- Richard William Fulton
- Scott Keith Hanson
- Carol Sue Haynes
- *Kenneth W. Holzman
- Richard Jansen
- *Alan Douglas Jarvi
- Richard Barry Johnson
- Steven David Kaufman
- *Bruce Robert Keilen
- Eivind Jacob Kolemmainen
- Katherine Kourtjian
- William James Kovack
- Craig William Lange
- Paul L. Larned
- Michael Anthony Lee
- Patricia Ann Lloyd
- Sally Lyn Makely
- *Lyle Norman Marshall
- William Douglas McCracken
- Patricia Ann Metzger
- Raymond H. Niver, Jr.
- James Alan Oddo
- Barbara J. Olson
- David Case Peshke
- Martha Elizabeth Pheatt
- Gary Thomas Pilette
- Richard Vincent Root, Jr.
- Richard S. Rosenbusch
- Stephen Harol Safranski
- John Eric Sahlin
- Michael Dennis Scheidt
- *Lana Denise Scott
- Kay Ann Siegrist
- Phillip Paul Sitter
- Dennis L. Smith
- *Kathleen Stonhouse
- Miles Raymond Swanson
- James F. Torrey
- Linda Jo Tuttle
- Mary Josephine Von Mach
- Lucinda Lee Weighous

Social Work

- Christine Marie Bier
- *Cristina Kay Bobier
- Anita Catherine Brown
- Susan Marie Cosgrove
- *Susan L. Curtis
- John Patrick Dean
- George Leland Eberhard
- Erma Lee Flinoil

- **Keith Douglas Galloway
- Linda Ann Hultquist
- *Alice Bonita Jennings
- Jolaine Johnson
- Julia Ann Kaiser
- Joyce Kay Lamar
- *Michele Marie Lester
- Rick Arlon Lloyd
- Juan Marinez
- Deborah LaVerne Neal
- Jannie Lillian Pugh
- Linda Lee Schwartz
- *JoAnn Schwarz
- Thomas Joel Schwarz
- Mary Grace Shue
- Cassandra Strobhart
- Max Booth Tobin
- *Ann Katherine Vindedahl
- Andrea Jean Wild
- *Gail Lynn Wontorcik
- Craig Franklin Young

Sociology

- *Patrice Lynn Anderson
- Laurence William Birchard
- Louise Marie Casanova
- H**Patricia Jane Craig
- Ruth Eileen Hill
- Lucille A. Johnson
- *Gilberto Varela Martinez
- Raymond George McGhee
- Patricia Lynn Parsons
- Jacquelynn Gladys Williams
- Rhodes
- *Susan Lois Saxton
- Michael Gerald Sholler
- Leslie James Thornton, II
- A. Vakili-zad

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Social Science

- Clifford Ashe, III
- Deborah Joyce Bishop
- Jean Ann Edmondson
- John Norris Field
- Carlton Lee Flakes
- Doris Lee Hale
- Wilda Ann Haney
- Gene R. Kuehle
- *Marylou Reeber
- James R. Sanborn
- Diane Darlene Scherer
- R. Bruce Stafford
- Ronald Nelson Storing
- *Wendy Sue Thompson

H Honors College
* With Honor
** With High Honor

COLLEGE OF SOCIAL SCIENCE

Anthropology

John Rexford Davis
David Badgley Munro
Stephen Joseph Roth
H** Joel Alan Vilensky
Toni Alexis Williams

Criminal Justice

Bruce Donald Chamberlin
Kendall D. Cicchetti
James L. Cihak
*Michael James Craw
**Carol Olive Curtis
Joseph Andrew Ditzhazy, Jr.
*Charles Roland Dowd
Michael Andrew Doyle
*Sandra Jayne Drost
Mary Margaret Dwyer
David James Esper
*Jill Lorraine Felner
Linda Susan Gaskin
H** Richard A. Gawenda
Gary Robert Gay
George Clarence Geckle
William David Goggin
John Lawrence Hackman
*David Santee Hackney
Elaine Deloris Howell
*Gertrude Elizabeth Johnson
Barbara Ann Kennedy
Jon Allen Kloosterhouse
*Del Ray Kunz
**Nelson William McCumby
Gerard Phillip Miles
Arthur David Miller
Timothy W. Nicholson
Michael Jon Niemela
Mark Allen Ninke
Patricia Marie Ninke
*Michael John Palmer
**John Charles Porn
James Joseph Potapa
Louis Alexander Potter, III
Robert Alan Robertson
**Michael Paul Rummel
David Corydon Scaers
**Irene Sharon Waxman
Shirley Ann Whittaker

Geography

**James C. Cubberly
Darrell Dean Hodge, Jr.
Gregory Joseph Pusztai

Landscape Architecture

William Robert Need

Psychology

*Sue Ellen Ball
James Edward Berry
H** John Gerard Bizon
*Laret Doris Bolthouse
Jack F. Bravatto
*Paula Jean Brown
*Robert Henry Burmer
Joanne Martha Byloff
H** Pamela Sue Danker
John Andrew Davis
*Mary Kathryn DeDecker
James Howard Fashbaugh
John Steven Fox
Laurence Edward Gannan
Karen Dee Harvey
Patrick Brennan Hynes
Ingrid Kunze
H** Ann Elizabeth Latoza
Paul David Levine
*John David McTaggart
Rachel Anne Mundinger
Polly Anne Owen
Nicole T. Phillips
Thomas Bryan Reeves
*Kathy M. McGuinness Sajadi
Sandra-Elizabeth Bowen
Santos
Lester Edwin Schmidt
H** Craig David Stevens
Dennis Philip Terry
*Cynthia Lee Williams
*Pamela Joyce Williamson

Social Science

Michael Allan Baker
**Jane Ellen Becker
Edward Michael Belles
*Rita L. Berens
Robert Michael Bradshaw
William Roger Brereton
Glenn Richard Brudick
William Edward Bruzy
Marvin George Burk
Gregory Jules Cantin
Stephen Frank Capoferi
Terrence Scott Case
Karen Dean
Dennis H. J. Doderer
Jerome John Fellrath

Orville Dean Freeman
James Thomas Froom
Theresa Ann Ganaway
James Noel Gobeski
Jack Terrell Hinkle
**Gary William Hobbs
Rachel Jaslove
Terry Jo Learn
William Gordon McPherson
Paul Edward Neumann, Jr.
*Thomas Lyle O'Dell
*Paul Roderick Parsch
Ronan Stewart Patterson
Michael Conrad Phillips
Jeffrey Burton Richardson
Ronald E. Robosan
Carl Arthur Schalm, II
Bryan Nelson Schonberg
Vernon Leon Shadd
Karen Sorensen
Donald Niles Storing
Joseph Michael Tokarski
*Helen Kathleen Towle
Karl Francis Twyman
H** Peter Anthony
van Houwelingen
Rebecca Ann Woodruff
Michael David Youngblood

Sociology

Mary Elizabeth Johnston
Betty Ann Kennedy
David Edwin Kuschel
Jeffrey Alan Petersen
Rollia R. Richmond

Urban Planning

Terry David Councell
*Howard J. Kittell

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Geography

Robert Edward Perrin

Social Science

H** Dennis James Christensen
Linda Lee Gibbons
*Eric Edmond Martin
*Larry Loren Nielsen
Eugene Leroy Yoder

DEGREE OF
BACHELOR
OF SCIENCE

H Honors College
* With Honor
** With High Honor

COLLEGE OF HUMAN MEDICINE

ANDREW D. HUNT, JR., DEAN

GRADUATED SUMMER TERM, 1972

DEGREE OF
MASTER
OF SCIENCE

Clinical Laboratory Science

Barbara Ann Frank

Microbiology and

Public Health

Paul G. Engelkirk

Pharmacology

Lee-tze Lu

Physiology

James L. Clark

CANDIDATES — FALL TERM, 1972

DEGREE OF
MASTER
OF SCIENCE

Anatomy

Rochelle Agnes LaRochelle
Harold Franklin Roth

Clinical Laboratory Science

Barbara Kaye Bodner
Vivian Diane Geisland

Janis Meriea McDuffie
Dorothy Tao Lien Yao

Microbiology and

Public Health

Sahl Khairi Badran

Physiology

Lawrence Raymond Fine
Walter Joseph Hoppe

DEGREE OF
BACHELOR
OF SCIENCE

Medical Technology

Janet Hazel Kadwell
George Preston, Jr.

JUSTIN MORRILL COLLEGE

D. GORDON ROHMAN, DEAN

CANDIDATES — FALL TERM, 1972

DEGREE OF
BACHELOR
OF ARTS

Albert Thornton Allaby, Jr.
**Leslie Ann Brill
Nicholas Cantisani
Camille Victoria Cichy
Douglas Peter Elbinger
H**Cynthia Anne Freeland
*Barbara Lynne Gray
**Margot E. Kurtz
H*James Sterling Lawrence
H*Pamela Lee Margulies

Russell Emery Nyland
Ernest Francis Retzel
*Donovan Reynolds
*Linda Lee Reynolds
John Francis Sase
**Howard Alan Schaefer
Jack N. Schwartz
H**Bernadette S. Schwarz
Noel John Sterrett
*Michael Jon Stowe

H*Carol Jean Thomas
Cheryl Lee Whelan
*John R. Yost

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

H**Katherine Susan Goidich

H Honors College
* With Honor
** With High Honor

LYMAN BRIGGS COLLEGE

FREDERIC B. DUTTON, DEAN

CANDIDATES — FALL TERM, 1972

DEGREE OF
BACHELOR
OF SCIENCE

Paul Michael Antokol
Donald Robert Dietrich
H* Dennis Kirk Fitzgerald
Ronald Edward Widmayer

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION
Katherine Lee Thomsen
David Lawrence Tuyó

JAMES MADISON COLLEGE

ROBERT F. BANKS, DEAN

CANDIDATES — FALL TERM, 1972

DEGREE OF
BACHELOR
OF ARTS

*Nathan David Antila
H*Michael Joseph Betzold
Brian Gregory Burd
*Edward Alan Fredericks
Richard A. Levin
Michael Anthony Marks
*Michael Richard McCormick

Robert Leonard Meola
*Richard Allen Posthuma
H**Brian Lee Ruonavaara
Joyce Eileen Schwartz
Roy Davis Sigh
*Lorann Walters
*Bruce Lowell Watson

John Lowen Wolz

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

*David H. Swan

H Honors College
* With Honor
** With High Honor

RESERVE OFFICERS TRAINING CORPS

CANDIDATES — FALL TERM, 1972

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

Donald Robert Dietrich

Terrance Lee Merriman

Jack G. Reiss

MILITARY SCIENCE

Armor
Christopher Stephen
Christensen

Infantry
Geoffrey Albert Schmidt

Corps of Engineers
Hal Fredric Harrington