COMMENCEMENT 1970
MICHIGAN STATE UNIVERSITY
DIPLOMAS WILL BE AVAILABLE FOR PICKUP AS follows:

<table>
<thead>
<tr>
<th>Degree Type</th>
<th>Date</th>
<th>Room</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Graduate</td>
<td>Dec. 21</td>
<td>150</td>
<td>Hannah Administration Building</td>
</tr>
<tr>
<td>Master</td>
<td>Dec. 30</td>
<td>150</td>
<td>Hannah Administration Building</td>
</tr>
<tr>
<td>Bachelor</td>
<td>Jan. 8</td>
<td>50</td>
<td>Hannah Administration Building</td>
</tr>
</tbody>
</table>

Diplomas will be released only to the degree recipients upon presentation of identification. Diplomas not picked up by Feb. 1 will be mailed.
COMMENCEMENT 1970
Saturday, December 5
University Auditorium, East Lansing
Conferral of Graduate Degrees, 10 A.M.
Conferral of Baccalaureate Degrees, 3 P.M.
Michigan State University operates under the jurisdiction of a constitutional body known as the Board of Trustees. The eight elected members serve eight-year terms. Two are elected biennially from the state at large.

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

The Board likewise appoints a Secretary and a Treasurer.

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

THE HONORABLE DON STEVENS, Chairman ........................................Okemos
THE HONORABLE STEPHEN S. NISBET .............................................Fremont
THE HONORABLE FRANK HARTMAN .................................................Flint
THE HONORABLE CLAIR WHITE ....................................................Bay City
THE HONORABLE FRANK MERRIMAN, Vice-Chairman ......................Deckerville
THE HONORABLE KENNETH W. THOMPSON ....................................East Lansing
THE HONORABLE WARREN M. HUFF ...............................................Plymouth
THE HONORABLE BLANCHE MARTIN .............................................East Lansing

CLIFTON R. WHARTON, JR., Ex Officio, President .........................East Lansing
JACK BRESLIN, Secretary ..........................................................East Lansing
ROGER WILKINSON, Treasurer ......................................................East Lansing
The pageantry and color at commencement exercises reveal a record of academic achievement of the various individuals taking part in the exercises. The following brief description is given that the audience might more readily interpret such achievement.

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

Three types of gowns are indicated by the code. Those worn by the bachelors have long, pointed sleeves. Those worn by masters have long, closed sleeves with the arc of a circle near the bottom. The arm goes through a slit, giving the appearance of short sleeves for the master's gown. Doctor's gowns are faced with velvet. The sleeves are full, round and open with three bars of velvet on each sleeve. The velvet facing of bars on the sleeves may be black or the same color as the binding of the hood.

Hoods are made of material identical with the gown and are lined in the official academic color of the institution conferring the degree. If the institution has more than one color, the chevron is used to introduce the second color. Colored velvet or velveteen binds the hoods and indicates the department or faculty to which the degree pertains.

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

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

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

| College of Agriculture and Natural Resources | maize |
| Forestry, Packaging | russet |
| College of Arts and Letters | white |
| Music | pink |
| Philosophy | navy blue |
| College of Business | drab |
| Economics | copper |
| College of Communication Arts | royal blue |
| Journalism | crimson |
| Speech | silver gray |
| College of Education | light blue |
| College of Engineering | orange |
| College of Home Economics | maroon |
| College of Human Medicine | green |
| James Madison College | crimson |
| Justin Morrill College | white |
| Lyman Briggs College | golden yellow |
| College of Natural Science | golden yellow |
| Nursing | apricot |
| College of Osteopathic Medicine | green |
| College of Social Science | citron |
| College of Veterinary Medicine | dark gray |
ORDER OF CEREMONIES
Graduate Degrees

PROCESSIONAL

PROCESSION OF THE NOBLES...................... Rimsky-Korsakov
MARCH FROM "LOVE OF THE THREE ORANGES".............. Prokofiev
MSU Symphonic Band, Dr. Kenneth Bloomquist, Director

AMERICA............................................ Smith

The Band and Audience

PRAYER

THE REVEREND WILLIAM J. McKEON
Chaplain, Cristo Rey Community Center

COMMENTS

DR. LAWRENCE VON TERSCH
Dean, College of Engineering, Michigan State University

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

THE REVEREND FATHER McKEON

RECESSIONAL

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

The escorts for the procession are members of Mortar Board, Tower Guard and Alpha Lambda Delta, honor societies for women.
The audience is requested to remain seated while those in the procession are entering and leaving.
ORDER OF CEREMONIES
Baccalaureate Degrees

PROCESSIONAL
PROCESSION OF THE NOBLES ............................................. Rimsky-Korsakov
MARCH from "LOVE OF THE THREE ORANGES" .......................... Prokofieff
MSU Symphonic Band, Dr. KENNETH BLOOMQUIST, Director

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

PRAYER
THE REVEREND WILLIAM J. McKeon
Chaplain, Cristo Rey Community Center

ADDRESS
DURWARD B. VARNER, M.S.
Chancellor of the University of Nebraska

OVERTURE
FANTASY ON MSU SONGS ................................................ Curnow

CONFERRING OF DEGREES
CLIFTON R. WHARTON, JR., M.A., Ph.D.
President, Michigan State University

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

PRAYER
THE REVEREND FATHER McKeon

RECESSIONAL
TRIUMPHAL MARCH from "aida" .......................................... Verdi

The escorts for the procession are members of Mortar Board, Tower Guard and Alpha Lambda Delta, honor societies for women.
The audience is requested to remain seated while those in the procession are entering and leaving.
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 116th year, Michigan State has grown from three buildings and six faculty members to one of the ten largest universities in the nation. It has approximately 3,000 staff members engaged in teaching, research and public service, 439 buildings, and approximately 5,000 acres of land of which 2,010 acres are in existing or planned campus development.

Founded in 1855 to educate youth for the major occupation of that day — farming — MSU has broadened its offerings to meet the educational needs of today. Michigan State now has the School for Advanced Graduate Studies and 16 colleges—Agriculture and Natural Resources, Arts and Letters, Business, Communication Arts, Education, Engineering, Human Ecology, Human Medicine, James Madison, Justin S. Morrill, Lyman J. Briggs, Natural Science, Osteopathic Medicine, Social Science, Veterinary Medicine and the University College. Nearly 200 areas of specialization are available to undergraduates; approximately 300 are offered for graduate students.

The Honors College, which enables superior students to waive normal graduation requirements and undertake individual programs, attracts many of the nation's finest young scholars. Michigan State University also is a prominent sponsor of the National Merit Scholarship Program, 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 recently at MSU by the establishment of the Justin S. Morrill College, which offers a limited enrollment liberal education program with an international emphasis. The concept was expanded by the establishment and opening of the James Madison College and the Lyman J. Briggs College. James Madison offers a curriculum for the study of public policy problems within the framework of the social sciences and related disciplines. Lyman Briggs makes available a liberal curriculum for students especially interested in science and mathematics.
Today, more than 40,000 students attend the University at East Lansing. About 80 percent are from Michigan, representing every section of the state. Students also come from every state in the nation and 81 foreign countries.

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

All colleges and the Agricultural Experiment Station are engaged in a wide range of research. Approximately 2,000 individual projects are in progress. The University's research tools include the Control Data 3600 and 6500 Computers and a 50-million-volt cyclotron. Modern facilities include the following new buildings: chemistry, biochemistry, psychology research, veterinary medicine, plant science research, and natural resources.

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

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

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

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

RAY W. HERRICK

Your progress from a youthful apprentice toolmaker, working for five cents an hour, to the directorship of the Tecumseh Products Company, one of Michigan's leading corporations, has been a living example of the achievements which are possible for men of great faith and energy. Because of your imaginative industrial philosophy and your social responsibility, you have pioneered in developing an incentive pay system based on the worker's skill and dedication to his task. You have displayed a remarkable talent for resolving complex production problems by dealing directly with employees at the workbench level. Your successful endeavors in industry have been enriched by your many contributions to civic and educational institutions in Michigan, including schools, libraries, churches, and facilities for handicapped children. This University's Hidden Lake Gardens, which ranks among the nation's most renowned arboretums, is one of the symbols of your influence and generosity. Because of your dedication to the advancement of American industry and to the economic and civic welfare of your fellow citizens, Michigan State University is pleased to grant you the degree of Doctor of Engineering.

FOSTER E. MOHRHARDT

Since your graduation from Michigan State University four decades ago, you have pursued a distinguished career as a librarian and administrator. Because of your intelligent application of your professional knowledge you have made important contributions to the advancement of library science. For these accomplishments you have received signal honors and awards from public institutions, and you have been a valued consultant and advisor to libraries and professional associations in many parts of the world. During your long tenure as Director of the U.S. Department of Agriculture Library, you carried out extensive responsibilities with vigor and meaningful purpose. Those same exemplary qualities of leadership identify your present success as Program Officer of the Council of Library Resources. Because of your dedication to the dissemination of knowledge and the great credit which you have brought to yourself, to this institution and to your profession, Michigan State University is pleased to grant you the degree of Doctor of Letters.
Both as a teacher and administrator you have given impressive evidence of your devotion to American education. Because of your vision and integrity, you have succeeded in a broad range of academic responsibilities: as Professor of Agriculture at Michigan State University, Director of its Cooperative Extension Service, Director of its Continuing Education Service, Vice President for Off-Campus Education, and as Chancellor of Oakland University. A deep concern with human knowledge and truth has illuminated these endeavors. And now that you have become Chancellor of the University of Nebraska, higher education in Michigan—and this institution especially—will miss the force and energy of your personality; your keen, incisive wit; your rare quality of leadership; and your penetrating insights into the educational and social process. Besides your academic tasks, you have given much time and effort to civic and cultural projects, especially to the advancement of the arts. Because of your many contributions to the development of this institution and your continuing dedication to human values in the modern world, Michigan State University is pleased to grant you the degree of Doctor of Laws.

Your career as a geographer, educator and administrator has been an outstanding one. Your diligent research into the conservation and utilization of land and water resources has brought you international recognition as a leading expert in that field. As a consultant on natural resources planning and relief administration, you have left your mark upon the life and environment of many people in America, Africa, Europe and Asia. This eminence in your special field has been acclaimed by your colleagues, who have entrusted you with the leadership of professional organizations and enterprises, leading to your present position as Director of the Institute of Behavioral Science at the University of Colorado. Your many years of service as President of Haverford College and as a teacher at the University of Chicago and elsewhere reflect the initiative, wisdom and creative vision that are characteristic of all your undertakings. Because of your significant contributions to American higher education and to man’s knowledge about himself and his environment, Michigan State University is pleased to grant you the degree of Doctor of Laws.
DISTINGUISHED ALUMNI AWARD

James F. Sterba

Class of 1966. Although he came to Michigan State University from the small town of Owosso in Central Michigan, Jim Sterba, in less than five years after graduation, has seen much of the world as a foreign correspondent for the New York Times. And as a correspondent in The Times Saigon Bureau, Sterba, at the age of 27, has distinguished himself in his profession and as a member of this elite corps of journalists. While a student at Michigan State, Mr. Sterba worked as a reporter for the State News where he demonstrated early competence as a newsman and subsequently assumed a key editorial post. As a student he also covered the University for the Detroit Free Press. After graduation, Mr. Sterba joined the editorial staff of the Evening Star in Washington, D.C. and one year later left for a position as assistant to James Reston, chief of the New York Times Washington Bureau. After a year in Washington with The Times, Mr. Sterba was assigned to the New York office to assist in coverage of the national political convention and after the 1968 presidential election he was assigned to the Metropolitan Desk in New York. In June of 1969, Mr. Sterba was sent to The Times Saigon Bureau to assist in coverage of the war in Vietnam. Beginning in January of 1971, he will assume new duties as The Times correspondent in Indonesia.
THE CANDIDATES FOR DEGREES

1970 CLASS ROSTER

This includes the names of candidates for degrees as of the close of the 1970 Fall term, as well as the names of the recipients of the Doctoral and Master degrees at the close of the 1970 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.
DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1970

FRANCIS M. ABRAHAM, Ph.D.
Diploma in Rural Services, Post Graduate Diploma in Rural Sociology and Community Development, Rural Institute, Gandhigram. Sociology. Major Professor: Charles P. Loomis, Professor. Thesis: The Dynamics of Leadership in Village India.

ERNEST LOYD ADAMS, Ph.D.

JANET STECKELBERG ADAMS, Ph.D.

JEAN TOTH ALLEN, Ph.D.

CHARLES ROBERT ALMLI, Ph.D.

DENNIS LYLE ANDERSON, Ph.D.
B.S., M.S., University of Minnesota. Education. Major Professor: Joe L. Byers, Professor. Thesis: Retroactive Interference in Prose Learning as a Function of Similarity, Degree of Learning, and Instructions.
DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1970 (Continued)

THOMAS WESLEY ARCH, Ph.D.
B.A., M.A., Western Michigan University.
Education. Major Professor: Charles A. Blackman, Professor.
Thesis: The Value-Oriented Role of the Educational Change Agent.

GARY JAMES ATCHISON, Ph.D.
B.S., Michigan State University; M.S., Iowa State University.
Fisheries and Wildlife. Major Professor: Howard E. Johnson, Associate Professor.
Thesis: Lipid and DDT Dynamics and Developing Brook Trout Eggs and Fry.

GEORGIANNE RUTH BAKER, Ph.D.
B.S., Marygrove College; M.S., The Ohio State University.
Home Management. Major Professor: Beatrice Paolucci, Professor.

JOHN BALDWIN, Ph.D.
B.M.E., University of Wichita; M.M.E., Wichita State University.
Music. Major Professor: Paul O. Harder, Professor.

LAURENCE DAVID BARTLETT, Ph.D.
B.A., University of Wales; M.A., University of Buffalo.
English. Major Professor: Lawrence E. Babb, Professor.

DAVID JAMES FREDERICK BEATTY, Ph.D.
B.A., University of Toronto; M.A., Michigan State University.
Communication. Major Professor: Gerald R. Miller, Professor.

WILLIAM SAMUEL BEAVERS, Ph.D.
B.A., Drake University; M.Ed., University of Missouri.
Education. Major Professor: Norman R. Stewart, Professor.

JOSEPH EDWARD BECHARD, Ph.D.
B.S., Michigan State University; M.Ed., Wayne State University.
Education. Major Professor: John H. Suehr, Associate Professor.

JULIETA OVEJERA BELO, Ph.D.
B.S.A., University of the Philippines; M.S., North Dakota State University.
Soil Science. Major Professor: Eugene C. Doll, Professor.
Thesis: Determination of Total Carbon by Dry Combustion and Its Relation to Forms of Soil Nitrogen as Measured in the Laboratory and in the Greenhouse.
DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1970 (Continued)


CHARLES G. BOLLMAN, Ph.D.  M.S., Millikin University; B.S., Concordia Teachers College. Education. Major Professor: Charles F. Schuller, Professor. Thesis: The Effect of Large-Screen, Multi-Image Display on Evaluative Meaning.


SALLY ANN BRICKNER, O.S.F., Ph.D.  B.S., St. Norbert College; M.A., Michigan State University. Education. Major Professor: W. Robert Houston, Professor. Thesis: Observed Classroom Behaviors and Personality Types of 178 Beginning Teachers.
BARBARA MARIE BRODIE, Ph.D.  
B.S.N., Loyola University; M.S.N., Boston University.  
Psychology. Major Professor: Don E. Hamachek, Professor.  
Thesis: An Explorative Study of the Perceptions of Healthy Children Toward Illness.

BARRY STEWART BROWN, Ph.D.  
B.S., Brooklyn College; M.A., Michigan State University.  
Education. Major Professor: Wayne D. Van Huss, Professor.  
Thesis: The Effects of Exercise Upon Rat Brain Catecholamines.

RICHARD WANLESS BRUNSON, Sr., Ph.D.  
B.S., U.S. Military Academy; M.B.A., Babson Institute of Business Administration.  
Business Administration. (Management). Major Professor: Frederic R. Wickert, Professor.  
Thesis: A Behavioral Case Study of a Mini-Conglomerate.

BARBARA EVERITT BRYANT, Ph.D.  
B.A., Cornell University; M.A., Michigan State University.  
Communication. Major Professor: Verling C. Troldahl, Professor.  

ANDREW RAYMOND CARLSON, Ph.D.  
B.A., M.A., Western Michigan University.  
History. Major Professor: Vernon Ldtkle, Professor.  

KARL CHMELOWITZ CARTER, Ph.D.  
B.A., Missouri Valley College; M.S., Alfred University.  
Education. Major Professor: Julian R. Brandou, Professor.  
Thesis: A Historical Study of the Evolution of the Objectives of the National Science Foundation Teacher Training Programs, as Exemplified Specifically by the Academic Year Institute Programs in Science.

EDDIE SU-EN CHAO, Ph.D.  
B.S., Chung-Hsing University; M.S. University of Hawaii.  
Botany and Plant Pathology. Major Professor: John G. Scandalios, Assistant Professor.  
Thesis: Biochemical Genetics and Developmental Studies of Starch-Degrading Enzymes in Maize.

CHING JER CHERN, Ph.D.  
B.S., National Taiwan University.  
Biochemistry. Major Professor: Allan J. Morris, Associate Professor.  

HAROLD ROSS CHERRY, Ph.D.  
B.A., Huntington College; M.A., Western Michigan University.  
Speech and Theatre. Major Professor: Kenneth G. Hance, Professor.  
Thesis: A Rhetorical Analysis of the Preaching of Clovis Gillham Chappell.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

Loris Ohannes Chobanian, Ph.D.  B.M., M.M., Louisiana State University.
Music. Major Professor: H. Owen Reed, Professor.
Theis: Concerto for Guitar and Orchestra.

Val Rigby Christensen, Ph.D.  B.S., M.S., Utah State University
Education. Major Professor: Eldon R. Nonnamaker, Professor.
Theis: A Survey and Evaluation of Existing Student Conduct Codes and Regulations in Selected Four-Year Institutions of Higher Learning.

Myron Dale Colber, Ph.D.  B.S., Greenville College; M.M., Indiana University.
Music. Major Professor: Robert Sidnell, Associate Professor.

Steven G. Cole, Ph.D.  B.A., Wichita State University; M.A., Michigan State University.
Psychology. Major Professor: James L. Phillips, Associate Professor.
Theis: Relative Conflict: The Effects of Payoff, Distribution of Relative Strengths, and Alliance Situations on the Extent of Cooperation.

Thomas George Connelly, Ph.D.  B.S., Monmouth College.
Zoology. Major Professor: Charles S. Thornton, Professor.
Theis: Light and Electron Microscopic Analysis of Normal and Transplanted Pituitary of the Mexican Axolotl Ambystoma Mexicanum.

Douglas Melvin Crafo, Ph.D.  B.P.E., University of Alberta; M.S., Michigan State University
Resource Development. Major Professor: Daniel E. Chappelle, Associate Professor.

Gary Michael Crooch, Ph.D.  B.S., M.S., Oklahoma State University.
Business Administration (Accounting). Major Professor: Herbert E. Miller, Professor.
Theis: An Investigation of Investors’ Financial Statement Knowledge.

James Burke Cross, Ph.D.  B.S., University of Dayton.
Chemistry. Major Professor: William C. McHarris, Associate Professor.
Theis: The Electron Capture Decay Schemes of Bi$^{203}$ and Bi$^{204}$.

James Edward Crowder, Ph.D.  B.A., Wayne State University; M.A., Michigan State University.
Psychology. Major Professor: William J. Mueller, Professor.
Theis: Transference, Transference Dissipation, and Identification in Successful Vs. Unsuccessful Psychotherapy.
## DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1970 (Continued)

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree(s)</th>
<th>Institution(s)</th>
<th>Major Professor(s)</th>
<th>Thesis Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>John William Dahm, Ph.D.</strong></td>
<td>A.B., Calvin College; M.A., Western Michigan University.</td>
<td>Education. Major Professor: Richard G. Johnson, Associate Professor.</td>
<td>Thesis: The Effects of Modeling and Information — Only on Counseling Self-Referral Among Middle School Students.</td>
<td></td>
</tr>
<tr>
<td><strong>Jacqueline Anne Deeb, Ph.D.</strong></td>
<td>B.S., Aquinas College; M.A., Michigan State University.</td>
<td>Education. Major Professor: Dale V. Alam, Associate Professor.</td>
<td>Thesis: A Study of the Academic Self-Concept of Pupils in Selected Graded Schools and Selected Non-Graded Schools.</td>
<td></td>
</tr>
<tr>
<td><strong>Charles Richard Diminnie, Ph.D.</strong></td>
<td>B.S., St. Bonaventure University; M.S., Michigan State University.</td>
<td>Mathematics. Major Professor: Clifford E. Weil, Associate Professor.</td>
<td>Thesis: An Application of the Process of Regularization to the Analysis of Distribution.</td>
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</tr>
</tbody>
</table>
SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

CHARLES ARTHUR DRAKE, Ph.D.  
B.S., Brigham Young University; M.A., University of Maine.  
Sociology. Major Professor: Philip M. Marcus, Associate Professor.  

FREDERICK NICHOLAS EBBECK, Ph.D.  
M.A., Michigan State University; A.Mus.A., Australia-Conservatorium of Music; L.T.C.L., Australia-Trinity College of Music; Diploma in Teaching, Newcastle Teachers' College.  
Education. Major Professor: Troy L. Stearns, Professor.  
Thesis: An Examination of Selected Problems Associated with Primary Teacher Education in Papua and New Guinea Leading to Suggestions for Possible Redirection in Curriculum Planning.

JERRY BRUCE ECKERT, Ph.D.  
B.S., University of Arizona; M.A., Stanford University.  
Agricultural Economics. Major Professor: Laurence Witt, Professor.  

LOUIS RAYMOND ECKHOUDT, Ph.D.  
Licence, Faculte Universitaire Catholique; Licence, Universite Catholique.  
Economics. Major Professor: Anthony Koo, Professor.  
Thesis: Money and Wealth in Open and Interdependent Economies.

MARIE-THERESE ELIE, Ph.D.  
A.B., M.A., University of Montreal.  
Education. Major Professor: Louis Romano, Associate Professor.  
Thesis: A Comparative Study of Middle School and Junior High School Students in Terms of Socio-Emotional Problems, Self-Concept of Ability to Learn, Creative Thinking Ability, and Physical Fitness and Health.

WALLACE MALCOLM ELTON, Ph.D.  
B.A., Dartmouth College; M.A., Michigan State University.  
Geography. Major Professor: Jay R. Harman, Assistant Professor.  
Thesis: Forest and Lake Breeze Patterns and the La Porte, Indiana, Rainfall Anomaly.

HARRIETT ELENOIR EMERY, Ph.D.  
A.B., Eastern Michigan University; M.A., M.A., University of Michigan.  
Education. Major Professor: T. Wayne Taylor, Professor.  

RICHARD EARL EPPLEY, Ph.D.  
B.S., North Central College.  
Chemistry. Major Professor: William C. McHarris, Associate Professor.  
Thesis: Nuclear Spectroscopic Studies of Neutron-Deficient, Odd-Mass Rare Earths Near the N=82 Closed Shell.

KAI L. ERIKSON, Ph.D.  
B.A., Central Michigan University; M.A., University of Michigan; Ed.S., Central Michigan University.  
Education. Major Professor: Stanley E. Hecker, Professor.  
DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

Cesar A. Escobar Paez, Ph.D.  
B.S., National University of Columbia; M.S., Michigan State University.  
Thesis: The Ecological and Physiological Studies of Casing Soil Layer in Relation to Fruit Body Development in Agaricus Bisporus (Lange) Sing.

Bonita Green Fahrner, Ph.D.  
B.A., University of Michigan; M.A., Michigan State University.  
Psychology. Major Professor: Norman Abeles, Professor.  
Thesis: Perspectives on Psychotherapy: Drive Expression and Self-Esteem as Related to Outcome.

Dorothy C. Ferguson, Ph.D.  
B.A., M.A., State University of New York.  
Education. Major Professor: Elizabeth H. Rusk, Professor.  
Thesis: The Teacher as a Member of a School Staff and the Profession: A Synthesis of Current Thought.

Thomas Enrico Ferrari, Ph.D.  
B.S., M.S., North Carolina State University.  
Horticulture. Major Professor: August A. DeHertogh, Associate Professor.  
Thesis: Control of Nitrate and Nitrite Reduction in Barley Aleurone Layers.

Hans Frederick Fetting, Ph.D.  
A.B., A.M., University of Michigan.  
English. Major Professor: William W. Heist, Professor.  
Thesis: A Study in Phylogenetic Change: Old English /d/ vs Modern English /ð/ Reexamined.

Lois Jean Fiedler, Ph.D.  
B.S., University of Wisconsin; M.S., Purdue University.  
Education. Major Professor: Norman R. Stewart, Professor.  

Michael Howard Figler, Ph.D.  
B.S., University of Wisconsin; M.A., Michigan State University.  
Psychology. Major Professor: Stanley C. Ratner, Professor.  
Thesis: The Intensity, Habituation, and Retention of Habituation of the Threat Display in Male Betta Splendens (Regan) as a Function of Eliciting Stimuli.

Norman Allen Fishel, Ph.D.  
B.S., M.S., Michigan State University.  
Chemistry. Major Professor: Harry A. Eick, Professor.  

William Riley Force, Ph.D.  
B.A., Western Michigan University; M.A., Michigan State University.  
Education. Major Professor: Charles A. Blackman, Professor.  
Thesis: System Effects on Beginning Teachers in Innovative and Non-Innovative Schools.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

WILLIAM CLARK FORD, Ph.D.  B.S., M.A., Appalachian State Teachers College. Education. Major Professor: Dale V. Alam, Associate Professor. Thesis: The Secretary to the Public School Principal: A Job and Personal Profile Analysis.

CAROLD F. FRITZ, Ph.D.  B.S., University of Toledo; M.S., Michigan State University. Physics. Major Professor: Gerald L. Follack, Professor. Thesis: Coupling Between Pressure and Temperature Waves in Liquid Helium.

WILLIAM EURENSTOFF GARDNER, Ph.D.  B.A., Morehouse College; M.A., New York University. Education. Major Professor: James W. Costar, Professor. Thesis: A Study of How Selected Personal Characteristics of Counselors are Related to their Effectiveness as Seen by Black College Students.


SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

ROBERT JAMES GREENE, Ph.D.

MARILYN JEAN GREENLAW, Ph.D.

BARNEY GREENSPAN, Ph.D.

THOMAS JOHN GRGURICH, Ph.D.
A.B., University of Pittsburgh; M.S., Syracuse University. Education. Major Professor: John M. Mason, Professor. Thesis: An Evaluation of the Achievement of General Course Objectives for a Secondary Biology Program.

WILLIAM HOWARD HAAS, Ph.D.

DAVID L. HAGER, Ph.D.

ROBERT ANDRE HALLE, Ph.D.

M. DALE HANNAH, Ph.D.

DONALD K. HANZEK, Ph.D.

HAROLD CECIL HARDER, Ph.D.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

PATRICK JAMES HARRISON, Ph.D.
B.S., M.S., Stout State University.
Education. Major Professor: Paul W. F. Witt, Professor.
Thesis: The Relationship of Sex Role Identity Attention and Readiness to Selected Presentation Modes in Individualized Instruction.

GORDON MAX HART, Jr., Ph.D.
B.S., Ohio University; M.S., Bowling Green State University.
Education. Major Professor: James W. Costar, Professor.

DENNIS CHARLES HASS, Ph.D.
B.A., University of Maine; M.S., Michigan State University.
Mathematics. Major Professor: Patrick H. Doyle, Professor.
Thesis: The Ends of a Product Manifold.

JAMES EDGAR HEDGEBETH, Ph.D.
Education. Major Professor: Robert L. Green, Professor.
Thesis: The Relationship of Self and Academic Attitudes and Academic Achievement of Negro and White Students to School Racial Composition: An Exploratory Study.

RICHARD IRVING HENDRA, Ph.D.
B.S., M.A., Northern Michigan University.
Education. Major Professor: David Smith, Associate Professor.

WILLIAM LEE HIGHTOWER, Ph.D.
B.A., Kalamazoo College; M.S., Michigan State University.
Mathematics. Major Professor: Joseph A. Adney, Professor.

GERALD HERMAN HIRSCH, Ph.D.
B.S., M.S., University of Alberta.
Pharmacology. Major Professor: Jerry B. Hook, Assistant Professor.
Thesis: Development of Renal Organic Acid Transport; Substrate Stimulation by Penicillin and Other Compounds.

ROBERT HENRY HOESTER, Ph.D.
B.S., M.A., University of Michigan.
Education. Major Professor: George R. Myers, Professor.
Thesis: A Definition and Examination of the Role of School Principals in Certain Aspects of Student Teaching.

GLEN RICHARD HOFF, Ph.D.
B.S., Harvey Mudd College; M.S., Michigan State University.
Chemistry. Major Professor: Carl H. Brubaker, Professor.

ARNOLD R. HOFFMAN, Ph.D.
B.A., M.A., University of Kansas.
English. Major Professor: Joseph J. Waldmeir, Professor.
DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1970 (Continued)

Wendell Fey Hofman, Ph.D.  B.S., M.A., Western Michigan University. 
Physiology. Major Professor: Gail D. Riegle, Associate Professor.  
Thesis: Acute Thermal and Cardiorespiratory Responses to Tranquilization and Electroanesthesia in Sheep.

James Donald Holdeman, Ph.D.  B.S., M.S., University of Michigan.  
Mechanical Engineering. Major Professor: John F. Foss, Associate Professor.  

John Thomas Houdek, Ph.D.  B.A., M.A., Michigan State University.  
History. Major Professor: Harry J. Brown, Professor.  

Frederick Charles Howe, Ph.D.  B.A., M.A., Michigan State University.  
Education. Major Professor: Robert L. Green, Professor.  
Thesis: Teacher Perceptions Toward the Learning Ability of Students from Differing Racial and Socio-Economic Backgrounds.


Su-chan Hsu, Ph.D.  B.S., Taiwan Provincial Chung Hsing University; M.S., Michigan State University. Botany and Plant Pathology. Major Professor: John L. Lockwood, Professor.  


Abdelwahid Abdelwahid Ibrahim, Ph.D.  B.S., University of Cairo; M.S., University of Kansas. Geology. Major Professor: William J. Hinze, Professor.  

Michael Howard Impey, Ph.D.  B.A., M.A., University of London. Comparative Literature. Major Professor: Laurence M. Porter, Associate Professor.  
Thesis: Patterns of Creativity in Tudor Argezhi's Cuvinte Potrivite.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)


RELDA JEAN JOHNSON, Ph.D. B.A., College of Wooster; M.A., Purdue University. Education. Major Professor: Russell J. Kleis, Professor. Thesis: An Exploration of Relationships Between and Among Empathy, Trust and Ego Stage Development in the Adult Learner.


SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

CHARLES ERNEST KENOYER, Ph.D.
B.S., Iowa State University; M.S., Michigan State University.
Psychology. Major Professor: James Phillips, Associate Professor.

GRAHAM BURRELL KERR, Ph.D.
B.A., M.A., Oxford University.
Communication. Major Professor: Everett M. Rogers, Professor.

LORNIE G. KERR, Ph.D.
B.S., M.A., Central Michigan University.
Education. Major Professor: Fred Vescolani, Professor.

JOHANNES KINFU, D.B.A.
B.A., University College of Addis Ababa, Ethiopia; M.S., University of Utah.
Business Administration (Accounting). Major Professor: Gardner M. Jones, Professor.

JOHN WILLIAM KING, Ph.D.
B.S.A., Purdue University; M.S., University of Rhode Island.
Crop Science. Major Professor: James B. Beard, Associate Professor.
Thesis: Factors Affecting the Heating and Damage of Merion Kentucky Bluegrass (Poa pratensis L.) Sod Under Simulated Shipping Conditions.

GORDON WILLIAM KIRK, Jr., Ph.D.
A.B., Hope College; M.A., Michigan State University.
History. Major Professor: James H. Soltow, Professor.

CARL EDWARD KNIGHT, Ph.D.
B.S., M.S., Michigan State University.
Poultry Science. Major Professor: Robert Ringer, Professor.

IRENE EMILY KOCHevaR, Ph.D.
B.S., M.S., Michigan State University.
Chemistry. Major Professor: Peter J. Wagner, Professor.

THOMAS JAMES KRAMER, Ph.D.
B.S., Xavier University; M.A., Michigan State University.
Psychology. Major Professor: Mark E. Rilling, Associate Professor.
DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

PAO KWEN KU, Ph.D.

B.S., National Taiwan University; M.S., Michigan State University. Animal Husbandry and Institute of Nutrition. Major Professor: Duane E. Ullrey, Professor. Thesis: Nucleic Acid and Protein Metabolism in the Zinc-Deficient Pig.

WENDELL LEE KUCKER, Ph.D.


RONALD THOMAS KUCZENSKI, Ph.D.


ROBERT ROGER KURTZ, Ph.D.


KUMARAN KOOTHIRESHI KUTTY, Ph.D.


ALAN LABOVITZ, Ph.D.


IRVING MARK LANE, Ph.D.


MYRNA E. F. LANE, Ph.D.

B.S., Brooklyn College; M.A., Michigan State University. Psychology. Major Professor: Lucy R. Ferguson, Professor. Thesis: Achievement Motivation, Level of Academic Achievement and Therapy Outcome.

KRISTIN OLSON LAUER, Ph.D.


BRIANT HAMOR LEE, Ph.D.

SCHOLL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)


CLIFFORD N. MARCUS, Ph.D.  A.B., Hope College; M.A., University of Michigan. Education. Major Professor: Charles A. Blackman, Professor. Thesis: Contributions of Student Teaching Programs to Michigan Cooperating Schools as Perceived by Student Teachers, Supervising Teachers and Administrators.


CHARLES EMMETTE MCDANIEL, Ph.D.  B.S., M.S., Florida State University. Education. Major Professor: Robert O. Nolan, Professor. Thesis: A Study to Compare the Relative Effectiveness of Selected Laboratory and Classroom Programs in Driver and Traffic Safety Education.

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1970 (Continued)


HENRY STANLEY MIKA, Ph.D. B.S., Lawrence Institute of Technology; M.S., University of Michigan. Electrical Engineering. Major Professor: John B. Kreer, Professor. Thesis: Solution of a Linear Regulator Problem with Quadratic Performance Index and State Variable Constraints.


ELWOOD LAVERNE MILLER, Ph.D. B.S.F., Northern Arizona University; M.F., Oregon State University. Forestry. Major Professor: Gerhardt Schneider, Professor. Thesis: Studies of Environmental Factors Affecting Jack Pine (Pinus Banksiana Lamb.) Regeneration.


SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1970 (Continued)

DUANE CONRAD MILNE, Ph.D.  
B.A., B.P.E., McMaster University; M.A., Michigan State University.  
Education. Major Professor: Philip L. Reuschlein, Associate Professor.  
Thesis: The Relation Between Anxiety and Motor Performance in Young Children.

EVAN RANDALL MINNICH, Ph.D.  
B.A., Albion College; M.S., Northwestern University.  
Chemistry. Major Professor: James L. Dye, Professor.  

LINDA DARLENE MITCHELL, Ph.D.  
B.S., Ohio University.  
Education. Major Professor: William A. Mehrens, Professor.  
Thesis: The Comparative Effectiveness of Different Item Analysis Techniques in Increasing Change Score Reliability.

WILLIAM GRANT MITCHELL, Ph.D.  
A.B., Emory University; M.A., University of Florida.  
Communication. Major Professor: Randall Harrison, Professor.  

MERRILL MORRIS MITLER, Ph.D.  
B.A., University of Wisconsin; M.A., Michigan State University.  
Psychology. Major Professor: Ralph Levine, Associate Professor.  

HARVEY W. MOHRENWEISER, Ph.D.  
B.S., M.S., University of Minnesota.  
Dairy and Biochemistry. Major Professors: Willis A. Wood, Professor; Roy S. Emery, Professor.  
Thesis: Role of Hormones in Controlling Ribonucleic Acid Synthesis During Lactogenesis.

ROBERT M. MONCZKA, Ph.D.  
B.S., M.B.A., Michigan State University.  
Business Administration (Management). Major Professor: John H. Haagland, Professor.  

ALYCE H. KAWAZOE MORISHIGE, Ph.D.  
Ed.B., M.A., University of Hawaii.  
Comparative Literature. Major Professor: C. David Mead, Professor.  

JAMES CLIFFORD MORRISON, Ph.D.  
B.A., University of Oregon; M.A., University of Tennessee.  
Psychology. Major Professor: Frederic R. Wickert, Professor.  
Thesis: Organizational Climate, Individual Background, and Values and Personal Job Goals in a Sample of Scanlon Plan Plants.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

LUKE MAKORE MUGWIRA, Ph.D.  
B.S., Lewis and Clark College; M.A., Michigan State University.  
Soil Science. Major Professor: Bernard D. Knezek, Associate Professor.  
Thesis: The Influence of Zinc Fertilization Upon the Growth of and  
Zinc Distribution in Navy Bean Plant Tops.

LAWRENCE DAVID MUSCHEK, Ph.D.  
B.S., The Philadelphia College of Pharmacy and Science.  
Biochemistry. Major Professor: James L. Fairley, Professor.  
Thesis: The Purification and Characterization of a Nuclease from  
the Seeds of Muskmelon.

MYUNG MI MYUNG, Ph.D.  
B.A., Sogang Jesuit College; M.A., Wake Forest College.  
Mathematics. Major Professor: Kfung W. Kwun, Professor.  

MICHAEL FOUAD NASSAR, Ph.D.  
B.A., M.A., South Dakota University.  
Anatomy. Major Professor: Bruce E. Walker, Professor.  
Thesis: A Morphologic and Radioautographic Study of the Prosimian,  
Galago Senegalensis.

MICHAEL A. NERBONNE, Ph.D.  
B.A., M.A., Michigan State University.  
Audiology and Speech Sciences. Major Professor: Edward J. Hardick,  
Professor.  
Thesis: A Comparison of Brief Tone Audiometry with Other Selected  
Auditory Tests of Cochlear Function.

GERALD WARREN NYQUIST, Ph.D.  
B.S., Lawrence Institute of Technology; M.S., Wayne State University.  
Mechanics. Major Professor: Gary L. Cloud, Associate Professor.  

JACQUELINE JEAN OATMAN, Ph.D.  
B.A., Michigan State University; M.A., University of Minnesota.  
Education. Major Professor: Louise M. Sause, Professor.  
Thesis: A Study of Conflicts Expressed by a Selected Sample of  
Public School Educators Concerning Involvement in Employee Nego-  
tiations.

MADHAV PANDURANG PALNITKAR, Ph.D.  
B.S., University of Bombay; M.S., Michigan State University.  
Food Science. Major Professor: Dennis R. Heldman, Associate Professor.  
Thesis: Thermodynamic Characteristics of Low and Intermediate  
Moisture Foods.

BRAINARD GUY PETERS, Ph.D.  
B.A., University of Richmond.  
Political Science. Major Professor: John N. Collins, Associate Professor.  
Thesis: The Development of Social Policy: A Longitudinal Analysis  
of Social Expenditures and Their Impacts in the United Kingdom,  
France, and Sweden.
DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

GARY RAYMOND POIRER, Ph.D.  B.S., M.S., Michigan State University.
Zoology. Major Professor: John R. Shaver, Professor.
Thesis: An Ultrastructural Study of Spermatogenesis in Two Species of *Rana*.

ELENA PRADO POLO, Ph.D.  B.S.E., Colegio de Sta. Isabel; M.A., Ateneo de Manila.
English. Major Professor: C. David Mead, Professor.
Thesis: Themes and Meanings in the American and Filipino Novels of the Second World War in the Pacific.

LEONARD JAMES POSTEMA, Ph.D.  A.B., Calvin College; M.A., Michigan State University.
Psychology. Major Professor: Albert I. Rabin, Professor.

THOMAS H. POULOS, Ph.D.  B.S., Milwaukee State Teachers College; M.S., University of Wisconsin.
Education. Major Professor: John E. Jordan, Professor.
Thesis: Attitudes Toward the Deaf: A Guttman Facet Theory Analysis of Their Content, Structure, and Determinants.

VELAGAPUDI KANTA PRASAD, Ph.D.  B.Sc., M.Sc., Andhra University.
Business Administration (Marketing). Major Professor: W. J. E. Crissy, Professor.
Thesis: An Analysis of the Purchase Clustering Patterns of Food Shoppers.

CECIL ERNEST PURIFOY, Ph.D.  B.S., University of Texas; M.A., Michigan State University.
Education. Major Professor: Troy L. Stearns, Professor.
Thesis: A Study of the Possible Subject Matter Content for a Short Course of Class Instruction in Christian Science.

ABDUL RAZIQ QAZI, Ph.D.  B.S., B.E., University of Peshawar; M.S., Colorado State University.
Agricultural Engineering. Major Professor: Ernest H. Kidder, Professor.

JOAN IRENE QUILLING, Ph.D.  B.S., M.S., Stout State University.
Education. Major Professor: Marvin E. Grandstaff, Assistant Professor.

JOAN ELIZABETH QUINN, Ph.D.  B.S., Purdue University; M.S., Michigan State University.
Mathematics. Major Professor: Kwung W. Kwun, Professor.

JOSEPH EDWARD QUINN, Ph.D.  B.S., University of Dayton; M.S., Michigan State University.
Mathematics. Major Professor: John J. Masterson, Associate Professor.
Thesis: Measure Riesz Spaces and the Egoroff Theorem.
KENNETH WARREN RABINOWITZ, Ph.D.
B.S., City College of New York.
Biochemistry. Major Professor: Willis A. Wood, Professor.
Thesis: Mechanisms of Allosteric Control of L-Threonine Dehydrase of Escherichia Coli by Adenosine-5'-Monophosphate.

SAMBHARAMADOM K. RAMASWAMI, Ph.D.
B.S., University College Trivandrum, India; Diploma, Maharaja's College.
Chemistry. Major Professor: Harold Hart, Professor.

DOUGLAS DEY RANDALL, Ph.D.
B.S., South Dakota State University.
Biochemistry. Major Professor: N. Edward Tolbert, Professor.
Thesis: 3-P-Glycerate Phosphatase in Leaves.

DICK REED, Ph.D.
B.S., M.A., Michigan State University.
Education. Major Professor: John H. Suehr, Associate Professor.
Thesis: The Effect of Pupil-Teacher Feedback on Teacher Flexibility as Perceived by Students.

DONALD JAMES REICHARD, Ph.D.
A.B., Miami University; M.A., Kent State University.
Education. Major Professor: Paul L. Dressel, Professor.
Thesis: Influence, Emphasis, Reference Group Orientation and Communication Within the Autonomous University Department.

ROSALIND REICHARD, Ph.D.
B.A., Harpur College; M.S., Michigan State University.
Mathematics. Major Professor: John J. Masterson, Associate Professor.
Thesis: Monotone Norms and Seminorms on an Archimedean Vector Lattice.

LOUIS THURMAN RICHARDS, Ph.D.
B.A., Grambling College; M.A., Michigan State University.
Mathematics. Major Professor: William T. Sledd, Professor.

THOMAS LEE RICHMOND, Ph.D.
B.M., Western Michigan University; M.M., Michigan State University.
Music. Major Professor: H. Owen Reed, Professor.
Thesis: Orchestral Composition for Small Ensemble and Orchestra.

JAMES EDWARD RILEY, Ph.D.
A.B., M.A., Western Michigan University.
Education. Major Professor: T. Wayne Taylor, Professor.
Thesis: A Comparison of the Abilities of Late Elementary School Children to Learn Tasks on the Operations of Signed Numbers.

RICHARD DELOSE RINGEISEN, Ph.D.
B.S., Manchester College; M.S., Michigan State University.
Mathematics. Major Professor: Edward A. Nordhaus, Professor.
DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

DENNIS C. RITTENMEYER, Ph.D.  B.S., M.A., Western Michigan University.
Education. Major Professor: Walter F. Johnson, Professor.
Thesis: A Study of the Student's Relationship With His Resident Assistant.

GERALD FRANKLIN ROBERTS, Ph.D.  B.A., Murray State College; M.A., University of Kentucky.
History. Major Professor: Gilman Ostrander, Professor.

KENNETH PATRICK RODE, Ph.D.  A.A., Calvin College; M.A., University of Michigan.
Education. Major Professor: Dale V. Alam, Associate Professor.

ROBERT ALLEN RUH, Ph.D.  B.A., Valparaiso University; M.A., Michigan State University.
Psychology. Major Professor: Carl F. Frost, Professor.

ROBERT OTTO RUHLING, Ph.D.  B.S., M.A., University of Maryland.
Education. Major Professor: Wayne D. Van Huss, Professor.
Thesis: Histochemical Observation on Rat Cardiac Muscle Following Chronic Exercise.

Education. Major Professor: Dale V. Alam, Associate Professor.
Thesis: Perceptions of Teachers and Students Toward the Unit Step Program in its First Year of Operation in one Michigan Senior High School.

SAKR AHMED SAKR, Ph.D.  B.C., Cairo University; M.A., Southern Methodist University; M.A., University of Michigan.
Economics. Major Professor: Anthony Koo, Professor.

IRVIN RAY SAVIDGE, Ph.D.  B.S., M.S., Pennsylvania State University.
Zoology. Major Professor: John A. King, Professor.

AJOVI BLESSING SCOTT-EMUAKPOR, Ph.D.  B.A., University of Nigeria; M.S., Michigan State University.
Zoology. Major Professor: Herman M. Slatis, Professor.
JAMES HENRY SHADDY, Ph.D.
B.S., Oklahoma State University.
Entomology. Major Professor: James W. Butcher, Professor.

WALTER BAXTER SHAW, Ph.D.
B.A., M.S., Miami University.
Education. Major Professor: Eldon R. Nonnamaker, Professor.
Thesis: A Study of Attrition Among Selected Former Student Personnel Workers.

ROBERT LANCE SHOTLAND, Ph.D.
B.S., M.A., Michigan State University.
Psychology. Major Professor: Robert H. Davis, Professor.

ANDREW FRANK SIKULA, Ph.D.
B.A., Hiram College; M.B.A., Michigan State University.
Business Administration (Management). Major Professor: R. Winston Oberg, Professor.

RONALD CRAIG SLABAUGH, Ph.D.
B.A., Willamette University.
Biochemistry. Major Professor: Allan J. Morris, Associate Professor.
Thesis: Purification of Peptidyl-tRNA from Rabbit Reticulocyte Ribosomes.

JAMES M. SOBOTA, Ph.D.
B.A., College of St. Thomas; M.S., Michigan State University.
Mathematics. Major Professor: Patrick H. Doyle, Professor.
Thesis: Construction of Antoine—Type Maps Between Continua in Euclidean Space.

CHARLES CALVIN SPENCE, III, Ph.D.
B.S., The Ohio State University; M.S., Wayne State University.
Education. Major Professor: Laurine Fitzgerald, Professor.
Thesis: Perceptions of Selected Faculty and Undergraduate Students of Three Different Environments at a Complex University Using the College and University Environment Scale: An Experimental Social Science Residential College, a Conventional Living-Learning Residence Hall and a College of Social Science.

LAWRENCE EDWARD SPENCE, Ph.D.
B.S., Towson State College; M.S., Michigan State University.
Mathematics. Major Professor: Kwung W. Kwun, Professor.

JAMES DAVID SPIVACK, Ph.D.
B.A., M.S., State University of New York.
Education. Major Professor: Norman Kagan, Professor.
DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

FREDERICK ALLAN STALEY, Ph.D.  B.A., M.A., Western Michigan University.  
Education. Major Professor: William J. Walsh, Professor.  
Thesis: A Comparison Study of the Effects of Pre-Service Teachers Presenting One or Two Micro-Teaching Lessons to Different Sized Groups of Peers on Selected Teaching Behaviors and Attitudes in an Elementary Science Methods Course.

GEORGE WILLIAM STANSBURY, JR., Ph.D.  B.S., Boston University; M.A., Michigan State University.  
Education. Major Professor: Charles A. Blackman, Professor.  

ROBERT LLOYD STEBBINS, Ph.D.  B.S., Colorado State University; M.S., University of California.  
Horticulture. Major Professor: Donald H. Dewey, Professor.  
Thesis: Orchard Factors Affecting the Internal Breakdown Disorder of 'Jonathan' Apples.

ALAN EUGENE STOCKLAND, Ph.D.  B.S., University of Nebraska; M.S., Michigan State University.  
Thesis: Isozymic and Immunological Studies of Staphylococcal Lactate Dehydrogenase.

LYLE MARTIN STONE, Ph.D.  B.A., University of Nebraska.  
Anthropology. Major Professor: Charles C. Cleland, Associate Professor.  

RUDOLF STEPHENS STRUKOFF, Ph.D.  B.M.E., Emmanuel Missionary College; M.M., Michigan State University.  
Music. Major Professor: Russell Friedewald, Professor.  
Thesis: The Greatest of These for Mixed Chorus, Bass Solo, Organ, Horn F and Percussion.

FREDERICK PAUL STUTZ, Ph.D.  B.A., Valparaiso University; M.S., Northwestern University.  
Geography. Major Professor: James O. Wheeler, Associate Professor.  
Thesis: Spatial Analysis of Urban Inter-Residential Social Trip Flows.

Education. Major Professor: Don E. Hamachek, Professor.  
Thesis: An Experimental Investigation of a Belief in Hypnosis and Hypnotic Suggestibility.

TERRY SURLES, Ph.D.  B.S., St. Lawrence University.  
Chemistry. Major Professor: Alexander I. Popov, Professor.  
SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES—GRADUATED SUMMER TERM, 1970 (Continued)

Vyachreswarud Suwarla, Ph.D.  
B.S., Hindu College; M.S., Banaras Hindu University.  
Statistics. Major Professor: James Hannan, Professor.  

Kathleen Ann Taylor, Ph.D.  
B.S., University of Dayton; M.S., Michigan State University.  
Mathematics. Major Professor: Gerald D. Taylor, Associate Professor.  

William L. Thomas, Jr., Ph.D.  
B.S., M.S., University of Tennessee.  
Education. Major Professor: Laurine Fitzgerald, Professor.  
Thesis: Perceptions of University Goals: A Comparison of Administrators, Faculty and Students Engaged in the Practice, Teaching and/or Study of Student Personnel Administration at Michigan State University with a Nationwide Study of University Faculty and Administrators.

Chester Randolph Titus, Ph.D.  
B.A., M.A., University of New Hampshire.  
Education. Major Professor: Eldon R. Nonnamaker, Professor.  
Thesis: Student Perceptions of Important Factors in Single Student Housing.

George Frederick Trentelman, Ph.D.  
B.S., Clarkson College of Technology; M.S., Michigan State University.  
Physics. Major Professor: Edwin Kashy, Professor.  

James George Truchan, Ph.D.  
B.S., M.S., Michigan State University.  
Entomology. Major Professor: James Butcher, Professor.  
Thesis: Field Evaluation of Dendrosoter Protuberans as a Biological Control Agent for Scolytus Multistriatus, the Primary Vector of Dutch Elm Disease.

George Wood Tuma, Ph.D.  
B.S., Harvard College; B.D., The Church Divinity, School of the Pacific; M.A., Michigan State University.  
English. Major Professor: John A. Yunck, Professor.  

Charles David Tweedle, Ph.D.  
B.A., M.A., University of Oregon.  
Zoology. Major Professor: Charles S. Thornton, Professor.  
Thesis: Transneuronal Effects on Amphibian Limb Regeneration.

Eugene L. VandenBoss, Ph.D.  
A.B., University of Michigan.  
Mathematics. Major Professor: Harvey Davis, Associate Professor.  
Thesis: Set Functions and Local Connectivity.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1970 (Continued)

PAUL B. VENZKE, Ph.D.
B.S., M.S., Michigan State University.
Mathematics. Major Professor: W. Eugene Deskins, Professor.
Thesis: Finite Groups Having Many Intersection-Sensitive Subgroups.

BOB GARTH VOLLK, Ph.D.
B.S., M.S., The Ohio State University.
Soil Science. Major Professor: Boyd G. Ellis, Professor.
Thesis: Movement and Adsorption on Zinc by a Wisner Silty Clay Loam Soil.

ELMER H. VRUGGINK, Ph.D.
B.A., Hope College; M.A., University of Michigan.
Education. Major Professor: Charles A. Blackman, Professor.

PERCY DE FOREST WARNER, III, Ph.D.
B.A., American University; M.A., Michigan State University.
Economics. Major Professor: John Hunter, Professor.

JOSEPH ANTHONY WEHLEN, Jr., Ph.D.
B.A., Xavier University; M.S., Michigan State University.
Mathematics. Major Professor: Edward C. Ingraham, Associate Professor.
Thesis: Algebras of Finite Cohomological Dimension.

DELBERT L. WHITENACK, Ph.D.
B.S., D.V.M., Oklahoma State University; M.S., Michigan State University.
Pathology. Major Professor: Charles K. Whitehair, Professor.
Thesis: The Influence of an Enteric Infection on Zinc Metabolism.

GEORGE EDWARD WHITESSEL, Ph.D.
B.A., Miami University; M.A., Columbia University.
English. Major Professor: Sam S. Baskett, Professor.

PAUL BASCOM WILLIAMS, Ph.D.
B.S., Wayne State University; M.S., Michigan State University.
Physics. Major Professor: Michael J. Harrison, Professor.

ELSIE BERDACH WOODWARD, Ph.D.
B.A., San Francisco State College; M.A., Michigan State University.
Psychology. Major Professor: Bill L. Kell, Professor.
Thesis: A Study of Pre-intake Dropout at St. Lawrence Community Mental Health Center.

SANDRA JEAN WOOLUM, Ph.D.
B.A., University of Denver; M.A., Michigan State University.
Psychology. Major Professor: Donald M. Johnson, Professor.
Thesis: The Verbal Context Paradigm.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES — GRADUATED SUMMER TERM, 1970 (Continued)

MICHAEL DENNIS WROBLEWSKI, Ph.D. B.S., M.S., University of Wisconsin.
Education. Major Professor: Louis Romano, Associate Professor.
Thesis: The Risk Taking of Students in the First Course of the Teacher Training Sequence at Michigan State University as Measured by Two Instruments.

TSE-CHUN YANG, Ph.D. B.S., Taiwan Provincial College of Agriculture; M.S., Michigan State University.
Soil Science. Major Professor: A. Earl Erickson, Professor.

WILLIAM JOSEPH YANKEE, Ph.D. B.S., M.A., Western Michigan University.
Education. Major Professor: Max R. Raines, Professor.
Thesis: A Description and Evaluation of the Associate Degree Law Enforcement Curricula in the Public Community and Junior Colleges of Michigan.

SHAN PANG YIEN, Ph.D. B.A., Tunghai University; M.A., Michigan State University.
Communication. Major Professor: Hideya Kumata, Professor.
Thesis: Employee Participation in Organizational Decision Making and Acceptance of Planned Change.

GEORGE DAVID YOUSTRA, Ph.D. B.S., M.A., Bob Jones University; M.A., Michigan State University.
Education. Major Professor: George R. Myers, Professor.
Thesis: A Study of Criteria for Selection of College Supervisors of Student Teachers as Perceived by Student Teaching Administrators of Selected Institutions of the Southeastern Regional Association for Student Teaching.

PETER JAMES ZACHARIAS, Ph.D. B.A., M.A., Michigan State University.
English. Major Professor: George R. Price, Professor.

ARSHAD ZAMAN, Ph.D. B.A., University of Hawaii.
Economics. Major Professor: Jan Kmenta, Professor.

BRYCE FRANKLIN ZENDER, Ph.D. B.A., Heidelberg College; M.A.T., Michigan State University.
Education. Major Professor: Carl H. Gross, Professor.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DIPLOMA FOR ADVANCED GRADUATE STUDIES—GRADUATED SUMMER TERM, 1970


MICHAEL JOSEPH MASTERNAK, D.A.G. A.B., Indiana University; M.A., Michigan State University. Social Science. Major Professor: Jack Steiber, Professor.

EDUCATIONAL SPECIALIST DEGREE—GRADUATED SUMMER TERM, 1970

ROBERT CHARLES AMBLE, Ed.S. B.S., M.A., Central Michigan University. Education. Major Professor: Fred J. Vescolani, Professor.

ROSS HAROLD BARKER, Ed.S. B.S., M.S, University of Oregon Education. Major Professor: Harvey F. Clarizio, Associate Professor.

LAWRENCE CONRAD BARRY, Ed.S. B.S., Boston College; M.A., University of Detroit. Education. Major Professor: Harvey F. Clarizio, Associate Professor.


ROBERT CURTIS ELLIOTT, Ed.S. B.A., University of South Dakota; M.A., Michigan State University. Education. Major Professor: Charles A. Blackman, Professor.

ROBERT JOHN HECKSEL, Ed.S. B.S., M.A., Michigan State University. Education. Major Professor: George R. Myers, Professor.


HERBERT L. HOWELL, Ed.S. B.S., Western Michigan University; M.A., Michigan State University. Education. Major Professor: O. Donald Meaders, Professor.

GURDEV SINGH JOLLY, Ed.S. B.A., Punjab University; M.E., University of New Brunswick. Education. Major Professor: James W. Costar, Professor.
SCHOOL FOR ADVANCED GRADUATE STUDIES

EDUCATIONAL SPECIALIST DEGREE — GRADUATED SUMMER TERM, 1970 (Continued)

JAMES WILLIAM KELLY, Ed.S. B.S., Wayne State University; M.A., Michigan State University. Education. Major Professor: Samuel A. Moore, II, Associate Professor.


EMMETT WAYNE LIPPE, Ed.S. B.S., Huntington College; M.A., Colorado College, Ball State University, Michigan State University. Education. Major Professor: Louis Romano, Associate Professor.

JOHN DAVID MYERS, Ed.S. B.S., Huntington College; M.S., Purdue University. Education. Major Professor: Fred R. Ignatovich, Assistant Professor.

OCTOVIO GIRALDO NEIRA, Ed.S. Diploma Hispanis, Instituto Caro y Cuervo, M.A., University of Arizona. Education. Major Professor: John E. Jordan, Professor.


JOHN PATRICK O'MEARA, Ed.S. B.S., Rockhurst College; M.A., Michigan State University. Education. Major Professor: George R. Myers, Professor.

DALE ARNOLD PETTERSON, Ed.S. B.A., M.A., Michigan State University. Education. Major Professor: Harvey F. Clarizio, Associate Professor.

MURL EDWIN RECTOR, Ed.S. B.S., Western Michigan University; M.A., Michigan State University. Education. Major Professor: Louis Romano, Associate Professor.

WAYNE FRANKLIN RICHARDS, Ed.S. B.S., University of Illinois. Education. Major Professor: Fred J. Vescolani, Professor.

PHILLIP EMIL RUNKEL, Ed.S. B.S., Ferris Institute; M.A., Michigan State University. Education. Major Professor: Fred J. Vescolani, Professor.

DOROTHY LOUISE STEWART, Ed.S. A.B., Calvin College; M.A., University of Michigan. Education. Major Professor: Vivian Stevenson, Assistant Professor.

WILLARD VAN ESSEN, Ed.S. A.B., Calvin College; M.A., University of Michigan. Education. Major Professor: Fred J. Vescolani, Professor.
CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1970

Betty Smith Adams, Ph.D.

B.S., M.A., The Ohio State University.  
English. Major Professor: Arthur Sherbo, Professor.  

Loren Ray Alexander, Ph.D.

B.M., Southwestern College of Kansas; M.A., Colorado State College; M.A., Michigan State University.  
German. Major Professor: Mark Kistler, Professor.  

Harold Arthur Allen, Ph.D.

B.S., M.A., University of Detroit.  
Mathematics. Major Professor: Gerald D. Taylor, Associate Professor.  
Thesis: The Closure Problem for the Backward Shift Operator in the Hardy p-Classes \( 1 \leq p < \infty \).

Richard Keith Allen, Ph.D.

B.A., M.A., Michigan State University.  
Speech and Theatre. Major Professor: Everett M. Rogers, Professor.  

John Richard Arndt, Ph.D.

B.S., Wheaton College; M.S., Oregon State University.  
Education. Major Professor: Walter F. Johnson, Professor.  
Thesis: A Study of Selected Factors Characterizing Freshmen Who Entered Michigan State University in Fall 1968 Identified as Under-, Over-, or Normal Achievers After One Term of College.

William Lamont Austin, Ed.D.

B.A., M.A., Michigan State University.  
Education. Major Professor: Clyde M. Campbell, Professor.  

Saber Ali Mohamad Awad, Ph.D.

B. Commerce, Alexandria University; M.B.A., Michigan State University.  
Business Administration (Accounting). Major Professor: Gardner M. Jones, Professor.  
Thesis: Acceptance of Contemporary Management Accounting Techniques in Small Manufacturing Firms.

Bruce Lowell Bachelder, Ph.D.

B.S., M.A., Michigan State University.  
Psychology. Major Professor: M. Ray Denny, Professor.  
Thesis: The Memory Span Paradigm: Its Use for the Analysis of Mental Retardation.

Alan Bailey, Ph.D.

B.A., State University of Iowa.  
Geology. Major Professor: Thomas A. Vogel, Associate Professor.  
Thesis: Comparison of Low-Temperature with High-Temperature Diffusion of Sodium in Albite.

Willard Eugene Barber, Ph.D.

B.A., M.S., Arizona State University.  
Fisheries and Wildlife. Major Professor: Niles R. Kevern, Professor.  
ISAAC BARNETT, Ed.D.  
B.S., M.S., A & T College.  
Education. Major Professor: Robert O. Nolan, Professor.  

ELBA FRANKLIN BASKIN, Ph.D.  
B.B.A., Lamar State College of Technology; M.B.A., Michigan State University.  
Business Administration (Accounting). Major Professor: Roland I. Salmonson, Professor.  

RICHARD JOHN BASTIANI, Ph.D.  
B.S., Santa Clara University; M.A., Sacramento State College.  
Chemistry. Major Professor: Harold Hart, Professor.  

RICHARD PHILIP BAXTER, Ph.D.  
B.S., Iowa State University; M.B.A., University of Pennsylvania.  
Education. Major Professor: Laurine E. Fitzgerald, Professor.  
Thesis: A Study of the Emergence and Functioning of Academic Advising Centers Within Academic Units of Major Universities.

DOUGLAS LESLIE BAYER, Ph.D.  
B.A., Knox College; M.S., Michigan State University.  
Physics. Major Professor: Walter Benenson, Associate Professor.  
Thesis: Inelastic Proton Scattering from $^{16}$O at Bombarding Energies from 24.6 to 40.1 MeV.

JAMES WILLIAM BEDFORD, Ph.D.  
B.S., M.S., Michigan State University.  
Entomology. Major Professor: Matthew J. Zabik, Professor.  
Thesis: Uptake, Metabolism, and Elimination of DDT and Dieldrin by Freshwater Mussels.

CAROLE ANN BEERE, Ph.D.  
B.A., M.A., Michigan State University.  
Education. Major Professor: Robert C. Craig, Professor.  

JOHN WALTER BELL, Ph.D.  
B.S.A., M.S., University of Arkansas.  
Dairy. Major Professor: Roy S. Emery, Professor.  
Thesis: Investigation of Some Factors Affecting Volatile Fatty Acid Transfer Across Rumen Epithelium in an In Vitro System.

ELDEAN BENNETT, Ph.D.  
B.A., Brigham Young University; M.A., Michigan State University.  
Communication. Major Professor: Erwin P. Bettinghaus, Professor.  
Thesis: Manager Perceptions of Differences in High and Low Creative Personnel in Broadcasting Stations — Some Dimensions.

THOMAS D. BIDNER, Ph.D.  
B.S., University of Illinois; M.S., Michigan State University.  
Animal Husbandry. Major Professor: Robert A. Merkel, Professor.  
CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1970 (Continued)

Don Edward Bierman, Ph.D.
Geography. Major Professor: Ian M. Matley, Professor. 
Thesis: The Function of the Oder River as an Artery of Transportation.

David Rand Bishop, Jr., Ph.D.
B.A., M.A., University of Michigan. 
Comparative Literature. Major Professor: Alfred E. Opubor, Assistant Professor. 

Lee Edward Blakely, Ph.D.
B.S., University of Georgia; M.S., Michigan State University. 
Food Science. Major Professor: Charles M. Stine, Professor. 

F. Keith Blue, Ph.D.
A.B., A.M., Colorado State College. 
Education. Major Professor: Floyd G. Parker, Professor. 

Stuart Allan Bremer, Ph.D.
B.A., University of Michigan; M.A., Michigan State University. 
Political Science. Major Professor: Rufus P. Browning, Associate Professor. 

Clarence Ellsworth Brown, Jr., Ph.D.
B.E., Chicago Teachers College; M.A., Loyola University. 
English. Major Professor: C. David Mead, Professor. 

Raymond Lucas Burich, Ph.D.
B.S., M.S., Kent State University. 
Physiology. Major Professor: Burnell H. Selleck, Assistant Professor. 

Lawrence William Byrnes, Ph.D.
B.A., M.A., Michigan State University. 
Education. Major Professor: J. Geoffrey Moore, Professor. 

John Norman Cain, Ph.D.
B.A., Waynesburg College; M.A., University of Michigan. 
Education. Major Professor: Peter G. Haines, Professor. 
Thesis: Teacher Characteristics and Background Qualifications Significant to Maximum Teaching Effectiveness and Implications for Staffing Vocational Education Centers in Oakland County, Michigan.

Warrick Livingston Carter, Ph.D.
B.S., Tennessee State University; M.M., Michigan State University. 
Music. Major Professor: Robert G. Sidnell, Associate Professor. 
Thesis: Ethnic Music as a Source for the Musical Development and Enrichment of Culturally Different Students in General Music Classes.

Gerald Francis Cavanagh, D.B.A.
B.S., Case Institute of Technology; D.B.A., Xavier University; Ph.L., St. Louis University; M.Ed., Columbia University. 
Business Administration (Personnel). Major Professor: Dalton E. McFarland, Professor. 
Thesis: Black and White Workers' Attitudes in Three Industrial Plants: View From the Grassroots.
SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1970 (Continued)

Everett Marston Chandler, Ph.D.  
B.A., University of California.  
Education. Major Professor: Louis C. Stamatakos, Associate Professor.  
Thesis: Short-Term Orientation Programs for Freshmen: A Contrast Between Participants and Non-Participants in a Program at the California State Polytechnic College.

Walter Grove Chappell, Ph.D.  
B.A., University of Kansas; M.A., Michigan State University.  
Education. Major Professor: Erling S. Jorgensen, Professor.  
Thesis: A Model for Predicting the Unit Cost of Developing Self-Instructional Materials in Higher Education Biological and Physical Sciences.

Joseph J. Chathaparampil, Ph.D.  
U.Ph., St. Joseph College, India; S.T.B., Gregorian University, Italy; M.A., Wayne State University.  
Education. Major Professor: Eldon R. Nonnamaker, Professor.  
Thesis: Students' Perceptions of Their Academic Advisement at Michigan State University.

Jonas Chenault, Jr., Ph.D.  
B.S., Eastern Michigan University; M.S., University of Michigan.  
Education. Major Professor: Wilbur B. Brookover, Professor.  
Thesis: Mental Retardation as a Function of Race, Sex and Social Economic Status.

Harvey Elting Clearwater, Ed.D.  
A.B., State University of New York; M.A., Michigan State University.  
Education. Major Professor: Robert O. Nolan, Professor.  

Rosilda Ghislaine Cormier, Ph.D.  
B.S., Ottawa University; M.A., Michigan State University.  
Education. Major Professor:  
Thesis: Development of a Home Economics Curriculum for the Université de Moncton.

Samuel Taggart Cowling, Ph.D.  
A.B., Georgetown University; M.A., Brown University.  
English. Major Professor: Arnold Williams, Professor.  

Carlton George Davis, Ph.D.  
B.S., University of Nebraska; M.S., Michigan State University.  
Agricultural Economics. Major Professor: Glenn L. Johnson, Professor.  

Marc G. De Backer, Ph.D.  
License, State University of France.  
Chemistry. Major Professor: James L. Dye, Professor.  

David James De Temple, Ph.D.  
B.S., Brigham Young University; M.A., Michigan State University.  
Geography. Major Professor: James O. Wheeler, Associate Professor.  
CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1970 (Continued)

JOHN F. DEVLIN, Ph.D.  
B.S., Harpur College; M.S., Michigan State University.  
Physics. Major Professor: Robert D. Spence, Professor.  

NOEMI DIAZ-SANTIAGO, Ph.D.  
B.S., University of Puerto Rico; M.S., Michigan State University.  
Food Science. Major Professor: Pericles Markakis, Professor.  
Thesis: Biochemical Effects of Irradiated Sugars on Human Cells in Culture.

NEVILLE J. DOHERTY, Ph.D.  
B.S., University of Massachusetts.  
Agricultural Economics. Major Professor: Glenn L. Johnson, Professor.  

ROBERT LLOYD DRISCOLL, Ph.D.  
B.S., State University of New York; M.S., Alfred University.  
Education. Major Professor: Robert R. Schmatz, Associate Professor.  
Thesis: A Survey of Pupil Disruptive Behaviors as Viewed by Student Teachers.

CARL JAMES DUTHLER, Ph.D.  
A.B., Calvin College.  
Physics. Major Professor: Gerald L. Pollack, Professor.  
Thesis: Dependence of the Helium II Film Transfer Rate on Pressure Head, Film Height, and Substrate.

MILTON ESBITT, Ph.D.  
B.A., City College of New York; M.A., Michigan State University.  
Economics. Major Professor: Wolfgang Paul Strassman, Professor.  

SUNDAY MATTHEW ESANG, Ph.D.  
B.S., M.S., University of Ibadan.  
Agricultural Economics. Major Professor: Glenn L. Johnson, Professor.  
Thesis: The Distribution of Earnings in the Cocoa Economy of Western Nigeria: Implications for Development.

CHRISTOPHER WARREN FAIRALL, Ph.D.  
B.S., Florida State University.  
Physics. Major Professor: Jerry A. Cowen, Professor.  

MICHAEL BRUCE FAIRBANKS, Ph.D.  
B.S., M.S., Michigan State University.  
Physiology. Major Professor: Jack R. Hoffert, Associate Professor.  
Thesis: The Importance of the Enzyme Carbonic Anhydrase in Ocular Oxygen Concentration in the Rainbow Trout (Salmo gairdneri).

RALPH HAROLD FAULKINGHAM, Ph.D.  
B.A., Wheaton College.  
Anthropology. Major Professor: Charles C. Hughes, Professor.  
Thesis: Political Support in a Hausa Village.

JOSE FONTAN PUEY0, Ph.D.  
B.A., Universidad Zaragazo; M.A., Michigan State University.  
Education. Major Professor: James L. Page, Professor.  
SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1970 (Continued)

ERROL JAMES FRECHETTE, Ph.D.  B.P., LaVal University; M.A., University of Detroit.  
Education. Major Professor: John E. Jordan, Professor.  

JOHN P. FRY, Ph.D.  B.S., Pennsylvania State University; M.A., Michigan State University.  
Psychology. Major Professor: Robert H. Davis, Professor.  
Thesis: The Effect of Student-Controlled Instruction on Learning.

KENNETH LEON GAGALA, Ph.D.  B.A., M.A., University of Detroit.  
Economics. Major Professor: Charles P. Larrowe, Professor.  
Thesis: Racism in the Building Trades.

DENNIS STEWART GARN, Ph.D.  B.S., Greenville College; M.A., Michigan State University.  
English. Major Professor: Clyde E. Henson, Professor.  

JOE PERRY GENTRY, Ph.D.  B.S., Oklahoma State University; M.S., University of Missouri.  
Agricultural Engineering. Major Professor: Bill A. Stout, Professor.  

QUENTIN HENRY GESSNER, Ph.D.  B.S., West Chester State College; M.A., University of Michigan; Ed.S., Michigan State University.  
Education. Major Professor: Floyd G. Parker, Professor.  
Thesis: A Study of the Perceptions of an Inter-University Center as Held by Alumni of the Participating Michigan Universities.

THOMAS HENRY GIESKE, Ph.D.  B.S., Xavier University; M.S., Michigan State University.  
Physiology. Major Professor: William L. Frantz, Associate Professor.  
Thesis: A Model for Pituitary Control of Osmoregulation in Relation to the Renal and Cutaneous Permeabilities to Sodium and Water in the Newt.

JORGE GIMENEZ-DIXON, Ph.D.  Ingeniero Agronomo, University of Buenos Aires; M.S., Michigan State University.  
Agricultural Economics. Major Professor: Harold M. Riley, Professor.  
Thesis: An Economic Analysis of Range Improvement in the Cattle Breeding Area of Buenos Aires Province.

Education. Major Professor: W. Harold Grant, Professor.  
Thesis: Differential Effects of Short-Term Small-Group Interaction on the Behavioral Development of College Freshmen According to Personality Type.

PETER HUMPHREY GRIGGS, Ph.D.  B.A., Western Washington State College; M.S., Michigan State University.  
Geology. Major Professor: Aureal T. Cross, Professor.  
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Institution</th>
<th>Major</th>
<th>Thesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>MELVYN HACKMEYER, Ph.D.</td>
<td>B.S.</td>
<td>Brooklyn College</td>
<td>Chemistry</td>
<td>Configuration Interaction Studies of Ground and Excited States of Polyatomic Molecules.</td>
</tr>
<tr>
<td>CHARLES JOHN HALL, Ph.D.</td>
<td>B.A.</td>
<td>Emmanuel Missionary College; M.M., University of New Mexico.</td>
<td>Music</td>
<td>The City in the Sea.</td>
</tr>
<tr>
<td>MALCOLM FRANK HALLIDAY, Ph.D.</td>
<td>B.A.</td>
<td>Dartmouth College; M.Ed., University of Maryland.</td>
<td>Education</td>
<td>An Investigation of Parent Attitudes and Teacher Morale in Relationship to Community Unrest.</td>
</tr>
<tr>
<td>MORTON OSWALD HAMILTON, Ph.D.</td>
<td>B.S.A.</td>
<td>University of Toronto</td>
<td>Food Science</td>
<td>Rheology and Stability of Freeze-Dried Cultured Cream.</td>
</tr>
<tr>
<td>GERHARD JACOBUS HANNEMAN, Ph.D.</td>
<td>B.A., M.A.</td>
<td>Michigan State University</td>
<td>Communication</td>
<td>Message Uncertainty as a Predictor of Arousal and Aggression.</td>
</tr>
<tr>
<td>DOUGLAS ALBERT HATZENBAHLER, Ph.D.</td>
<td>B.S.</td>
<td>University of Rochester</td>
<td>Chemistry</td>
<td>Laser Excited Fluorescence of I_2, Raman Spectra of Periodate Crystals, and Raman Spectra of Crystalline Acetylene and Deuterated Acetylene.</td>
</tr>
<tr>
<td>ZENIA JEAN LUKIANCHUK HAWRYSH, Ph.D.</td>
<td>B.S.</td>
<td>University of Alberta; M.S., Michigan State University.</td>
<td>Foods and Food Science</td>
<td>The Retention of Volatile Monocarbonyl Compounds in Natural Model Systems.</td>
</tr>
<tr>
<td>GERALD DALE HESS, Ph.D.</td>
<td>A.B.</td>
<td>Messiah College; M.S., Michigan State University.</td>
<td>Physiology</td>
<td>Effects of Chronic ACTH Stimulation, Gonadal Hormones, Thyroidal Hormone Treatment and Age on Adrenocortical Function of the Rat.</td>
</tr>
<tr>
<td>JOHN JOSEPH HORAN, Ph.D.</td>
<td>A.B., M.A.</td>
<td>University of Detroit.</td>
<td>Education</td>
<td>The Effect on Weight Reduction of Coverant Conditioning Through a Self-Management Application of the Premack Principle.</td>
</tr>
</tbody>
</table>
JOHN EDWARD HOSTETLER, Ph.D.  M.S., Michigan State University.
Agricultural Economics. Major Professor: A. Allan Schmid, Professor.

JAMES RICHARD HUFFMAN, Ph.D.  B.A., Harvard College; M.A., Michigan State University.
English. Major Professor: Clyde E. Henson, Professor.

JOHN MACK HUIE, Ph.D.  B.S., M.S., Auburn University.
Agricultural Economics. Major Professor: Harold Riley, Professor.
Thesis: Number, Size, and Location of Beef Slaughter Plants in Michigan.

IRMGARD SELl IMMEL, Ph.D.  B.A., Kent State University; M.A., Northwestern University.
German, Language and Literature. Major Professor: Mark O. Kistler, Professor.

OLAF ISACHSEN, Ph.D.  T.E., Textile Institute; M.B.A., Harvard University.
Education. Major Professor: Vandel C. Johnson, Professor.

TURNER TIMINIPRE ISOUN, Ph.D.  B.S., D.V.M., Michigan State University.
Pathology. Major Professor: Charles K. Whitehair, Professor.
Thesis: Pathologic and Biochemical Influences of a Viral Enteric Infection in Protein-Calorie Malnutrition in Pigs.

ETHAN B. JANOVE, Ph.D.  B.A., University of Illinois; M.S., Northern Illinois University.
Education. Major Professor: Samuel A. Moore, II, Professor.
Thesis: Duties Performed by Paraprofessionals and the Relationship of Self-Concept and Dogmatism.

ANDREW TIMOTHY JEFCHAK, Ph.D.  A.B., Indiana University; M.A., DePaul University.
English. Major Professor: Joseph J. Waldmeir, Professor.

SHIRLEY MAE JOHNSON, Ph.D.  B.S., Northern Michigan University; M.S., Michigan State University.
Physiology. Major Professor: John E. Nellor, Professor.
Thesis: Influence of the Adrenal Glands, Ovaries, Testes and Age on the Eosinophilic and Basophilic Granulated Cell Numbers of the Rat Intestine.

RICHARD R. KNIGHT, Ph.D.  B.S., M.A., Michigan State University.
Psychology. Major Professor: Lauren Harris, Associate Professor.
CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1970 (Continued)

CHARLES FRANK KOVACIK, Ph.D.
B.S., M.S., Northern Illinois University. Geography. Major Professor: Daniel Jacobson, Professor.

ALWIN WILLIAM KULENKAMP, Ph.D.
Thesis: The Effects of Intensive Inbreeding (Brother X Sister) on Various Traits in Japanese Quail (Coturnix Coturnix Japonica).

ROBERT BRUCE LACEY, Ph.D.

DAVID RONALD LEECE, Ph.D.
B.S., M.S., University of Sidney. Horticulture. Major Professor: Alvin L. Kenworthy, Professor.

ERNESTO SATURNINO LIBOREIRO, Ph.D.
B.S., University of the South; M.S., Michigan State University. Agricultural Economics. Major Professor: Dale E. Hathaway, Professor.

MARTHA KATHERINE LORENZ, Ph.D.
B.A., Pacific Union College; M.S., Union of Nebraska. Home Economics Education. Major Professor: Rosalind B. Mentzer, Professor.

GEORGE EDWARD LOTT, Jr., Ph.D.
B.A., The College of William and Mary; M.A., Michigan State University. Speech and Theatre. Major Professor: David C. Ralph, Professor.

GLEN PEIRCE LUMIS, Ph.D.
B.S., Pennsylvania State University; M.S. Michigan State University. Horticulture. Major Professor: Roy A. Mecklenburg, Associate Professor.
Thesis: Winter Hardiness of Evergreen Azalea (Rhododendron cv.) Flower Buds.

WILLIAM JOSEPH LYNAM, Ph.D.
B.A., Albion College; M.A., Michigan State University. Education. Major Professor: Max Raines, Professor.
Thesis: A Study of the Administrative Competencies Needed by the Community College Academic Dean and a Model of Their Translation into Behavioral Statements Related to Administrative Training Experiences.
SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1970 (Continued)

E. Jerome Maas, Ph.D.

Ernest Nuncio Mannino, Ph.D.

Edward Joseph Marien, Ph.D.

Ian McClymont, Ph.D.

Vincent Murry McGucan, Ph.D.

Joseph Albert McHugh, Ph.D.

Gerald Alfred McIntosh, Ph.D.
B.S., Central State University; M.A., Eastern Michigan University. Education. Major Professor: Louis Romano, Associate Professor. Thesis: A Study of the Perceptions of Black and White College Freshmen at Michigan State University Toward the University Environment.

Patrick Bruce McKenzie, Ph.D.

Elaine Marianne McLevie, Ph.D.

Anne M. McMahon, Ph.D.


JAMES EDWARD MEULENDYKE, Ph.D.  B.S., Northwestern University; M.A. University of Michigan; Ed.S., Michigan State University.  Education. Major Professor: James E. Heald, Professor.  Thesis: Educational Leadership in a Time of Crisis, 1932-1940.


WILLIAM JOHN O'BRIEN, Ph.D.  B.S., Gettysburg College.  Zoology. Major Professor: Donald J. Hall, Associate Professor.  Thesis: The Effects of Nutrient Enrichment on the Plankton Community in Eight Experimental Ponds.

URBAN THEODORE OEN, Ph.D.  B.S., M.S., The Ohio State University.  Education. Major Professor: H. Paul Sweany, Professor.  Thesis: An Experimental Study Designed to Evaluate the Effectiveness of an Individualized Learning Method of Instruction When Compared to the General Lecture-Discussion Method of Instruction.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1970 (Continued)

JARRELL ARLEN O'KELLEY, Ph.D.
B.A., Sterling College; M.A., University of Denver.
English. Major Professor: Elwood P. Lawrence, Professor.

LEONARD WILLIAM OTT, Ph.D.
B.S., Wisconsin State University; M.M., Michigan State University.
Music. Major Professor: Paul O. Harder, Professor.

KAZUHIRO OYA, Ph.D.
M.S., University of Hawaii.
Soil Science. Major Professor: John C. Shickluna, Professor.

ERDAL PANAYIRCI, Ph.D.
B.S., M.S., Technical University of Istanbul.
Electrical Engineering. Major Professor: Richard C. Dubes, Professor.

DIBAKAR PANIGRAHI, Ph.D.
B.V.Sc., Orissa Veterinary College, India; M.S., Michigan State University.
Pathology. Major Professor: Glenn L. Waxler, Professor.
Thesis: The Effect of Neonatal Thymectomy and X-Irradiation on the Lesions of Tuberculosis in Chickens.

GEORGE RALPH PARKER, Ph.D.
B.S., M.S., Oklahoma State University.
Forestry. Major Professor: Gerhardt Schneider, Associate Professor.

BRIAN MALCOLM PETRIE, Ph.D.
B.S., M.A., University of Alberta.
Education. Major Professor: Wilbur B. Brookover, Professor.

DUANE DENNIS PETTERTSEN, Ph.D.
B.S., Eastern Montana College; M.A., Montana State College.
Communication. Major Professor: Erwin P. Bettinghaus, Professor.

RICHARD EARL PHILLIPS, Ph.D.
B.S., M.S., Cornell University.
Agricultural Engineering. Major Professor: Merle L. Esmay, Professor.

WILLIAM LUCAS PICKLES, Ph.D.
B.S., B.A., University of Texas; M.S., Michigan State University.
Physics. Major Professor: Edwin Kashy, Professor.

STEPHEN WILLIAM PORGES, Ph.D.
B.A., Drew University; M.A., Michigan State University.
Psychology. Major Professor: Hiram E. Fitzgerald, Assistant Professor.
Thesis: Respiratory and Heart Rate Indices of Reaction Time.
EMERSON LUCINE POTIER, Ph.D.  
B.S., Michigan State University; M.S., The Ohio State University.  
Animal Husbandry. Major Professor: Duane E. Ullrey, Professor.  
Method for Determining the Limiting Amino Acids.

HARVEY GRAHAM PURCHASE, Ph.D.  
B.Sc., University of the Witwatersrand, South Africa; B.V.Sc., University  
of Pretoria, South Africa; M.B.C.V.S., Royal College of Veterinary  
Surgeons; M.S., Michigan State University.  
Thesis: Marek's Disease: Virus-Host Cell Relationships In Vitro and  
In Vivo, and Biological Markers for Cloned Preparations of the Virus  
and a Herpesvirus of Turkeys.

NORMAN ALAN RASULIS, Ph.D.  
B.S., University of Wisconsin; M.A., Michigan State University.  
English. Major Professor: James L. Hill, Associate Professor.  

GEORGE RENNISON REED, Ed.D.  
A.B., Albion College; M.A., Western Michigan University.  
Education. Major Professor: William V. Hicks, Professor.  
Thesis: The Contributions of Thomas Milton Carter to Teacher Edu­  
cation, Albion College, 1923-1962.

GERARD ANTHONY REIDY, Ph.D.  
B.S., University of Dublin; M.S., Michigan State University.  
Food Science and Agricultural Engineering. Major Professor: Dennis  
R. Heldman, Associate Professor.  
Thesis: Relationships Between Engineering and Texture Parameters  
for Low and Intermediate Moisture Foods.

THOMAS F. REIF, Ph.D.  
B.A., University of Michigan; M.A., Michigan State University.  
Psychology. Major Professor: James L. Phillips, Associate Professor.  
Thesis: Changes in Children's Personal and Social Behavior as a  
Result of Interaction with Trained Undergraduates.

GEORGE BERNARD ROBECK, Ph.D.  
B.A., M.A., Pennsylvania State University.  
Communication. Major Professor: Verling C. Trolldahl, Professor.  
Thesis: The Influence of Design Symmetry and Contour on Eye Fixa­  
tions and Judgments of Perceived Complexity, Interestingness and  
Pleasingness.

HENRY ARTHUR ROBITAILLE, Ph.D.  
B.S., University of Maryland; M.S., Michigan State University.  
Horticulture. Major Professor: Robert F. Carlson, Professor.  
Thesis: The Relationship of Endogenous Hormones to Growth Char­  
acteristics and Dwarfing in Malus L.

THOMAS ROBERT RODGERS, Ph.D.  
B.S., College of St. Thomas.  
Chemistry. Major Professor: Harold Hart, Professor.  
Thesis: Part I: Stereochemistry of the Rapid Equilibration of Protonated  
Bicyclo[3.1.0]Hexenones. Part II: Control of the Stereochemistry of  
2,5-Cyclohexadienone Photoisomerization by Steric Factors. Part III: The Synthesis and Photorearrangement of 1,6,8,8,9,10-Hexam­  
ethyltricyclo[2.2.4.02•5]Deca-3,9-Diene-7-One and Its Derivatives.
CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1970 (Continued)

JOHN R. ROSENAU, Ph.D.  
B.S., University of Wisconsin.  
Agricultural Engineering. Major Professor: Fred W. Bakker-Arkema, Associate Professor.  

HARLEY G. ROTH, Ph.D.  
B.A., M.A., University of the Pacific.  
Education. Major Professor: Louis Romano, Associate Professor.  
Thesis: Values and Value Systems in the Selection of Leaders in Education.

CAROLE ANN SACK, Ph.D.  
B.S., University of Michigan.  
Zoology. Major Professor: Herman M. Slatis, Professor.  

LAURENCE WILLIAM SAIN, Ph.D.  
B.S., Northern Michigan University; M.A., University of Michigan.  
Education. Major Professor: William A. Mann, Professor.  

WILLIAM C. SASS, Ph.D.  
B.A., Sacramento State College.  
Chemistry. Major Professor: Gerasimos J. Karabatsos, Professor.  

RICHARD FRANK SAUTER, D.B.A.  
B.S., M.B.A., Michigan State University.  
Business Administration (Marketing). Major Professor: William Lazer, Professor.  

NORMAN JAMES SCHLAFMANN, Ph.D.  
B.A., Sioux Falls College; B.D., North Baptist Theological Seminary; M.A., Michigan State University.  
Education. Major Professor: Eldon R. Nonnamaker, Professor.  

PETER J. SCHMIDT, Ph.D.  
B.A., M.A., Michigan State University.  
Economics. Major Professor: Jan Kmenta, Professor.  

HERBERT NICK SCHOTT, Ph.D.  
B.S., University of California.  
Chemistry. Major Professor: Peter J. Wagner, Professor.  
Thesis: Part I: The Efficiency of Triplet Energy Transfer From Ketones to Rare Earth Ions. Part II: The Nature of the Photoreactive State in P-Methoxyphenyl Alkyl Ketones.

AHMAD SIDAWI, Ph.D.  
B.A., M.A., Michigan State University.  
Education. Major Professor: Wilbur B. Brookover, Professor.  
Thesis: Self-Concept of Ability and School Achievement in Lebanon.
CANDIDATES FOR THE DOCTORAL DEGREES—FALL TERM, 1970 (Continued)

Edward Julius Siegel, Ph.D.
B.S., City University of New York; M.S., University of Michigan.
Metallurgy. Major Professor: Gabor Kemeny, Associate Professor.

Sukhbir Singh, Ph.D.
B.Sc., G.G.M. Sc. Col., India; B.E., University of Jabalpur; M.S., College of Engineering at Poona.
Electrical Engineering. Major Professor: Peter D. Fisher, Assistant Professor.

Roger Alan Skolnik, Ph.D.
B.A., Miami University; M.A., Michigan State University.
Communication. Major Professor: Verling C. Troldahl, Professor.
Thesis: Alienation and Attitudes Toward Radio.

Anna Barbara Crumpler Smart, Ph.D.
B.A., Arizona State College; M.A., University of Washington.
Education. Major Professor: Charles V. Mange, Professor.
Thesis: A Proposed Special Education Program for the State of Alaska with Emphasis on Rural Schools.

Floyd Dale Smith, Ph.D.
B.A., Southern Illinois University; M.A., Michigan State University.
Education. Major Professor: William A. Mann, Professor.
Thesis: Blood Alcohol Level and Other Selected Factors as Indicators of the Problem Drinking Driver.

Hanley Kerfoot Smith, Ph.D.
B.S., Tulane University; M.S., Texas A & M University.
Fisheries and Wildlife. Major Professor: Leslie W. Gysel, Professor.

H. Roger Smith, Ph.D.
A.B., Antioch College; M.A., Eastern Michigan University.
Geography. Major Professor: Ian M. Matley, Professor.
Thesis: Regional Growth, Central Place Development, and Functional Change: River Bend Area, Minnesota.

S. Davis Smith, Ph.D.
B.S., M.S., Wayne State University.
Education. Major Professor: Herbert C. Rudman, Professor.

Robert Bruce Spangenberg, Ph.D.
B.S., Michigan State University; M.D., University of Michigan.
Physiology. Major Professor: W. D. Collings, Professor.

George Lester Staby, Ph.D.
B.S., University of Connecticut; M.S., Michigan State University.
Horticulture. Major Professor: August A. DeHertogh, Professor.
Thesis: Terpene Biosynthesis in Cell-Free Systems from Wedgewood Iris and Tulipa Gesneriana L. and Its Relation to Bulb Growth and Development.
<table>
<thead>
<tr>
<th>Name</th>
<th>Degrees</th>
<th>Institution</th>
<th>Major</th>
<th>Thesis</th>
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<tbody>
<tr>
<td>Eugene Donald Tate, Ph.D.</td>
<td>B.A., Hamline University; B.D., Garrett Theological Seminary; M.A.</td>
<td>Northwestern University.</td>
<td>Communication. Major Professor: Gerald R. Miller, Professor.</td>
<td>Thesis: A Comparison of the Relative Immunizing Effect of Counter-attitudinal Advocacy with the Passive Reception of a Persuasive Message.</td>
</tr>
<tr>
<td>Howard Shuorman Teitelbaum, Jr.</td>
<td>B.S., California State Polytechnic College; M.A.</td>
<td>Michigan State University.</td>
<td>Education. Major Professor: Keith Anderson, Associate Professor.</td>
<td>Thesis: A Descriptive Study of Selected Pupil Disruptive Behaviors.</td>
</tr>
<tr>
<td>Charles Wilbert Townsel, Ph.D.</td>
<td>B.S., Wayne State University; M.A.</td>
<td>University of Michigan.</td>
<td>Education. Major Professor: Louis Romano, Associate Professor.</td>
<td>Thesis: A Self-Concept and Mental Health as a Function of Academic Achievement.</td>
</tr>
<tr>
<td>Robert Albert Ulrich, Ph.D.</td>
<td>B.S., M.S.</td>
<td>State University of New York, College at Buffalo.</td>
<td>Education. Major Professor: Robert Nolan, Professor.</td>
<td>Thesis: Developing a Justification for the Inclusion of a Comprehensive Safety Education Program in the Public Schools of New York State.</td>
</tr>
</tbody>
</table>
CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1970 (Continued)

Edward Charles Varsa, Ph.D.  
B.S., Southern Illinois University; M.S., University of Illinois.  
Soil Science. Major Professor: Arthur R. Wolcott, Professor.  
Thesis: The Use of Soil and Petiole Tests for Detecting Residual Nitrogen and for Predicting Responses of Sugar Beets (Beta vulgaris) to Nitrogen Fertilization.

Thomas J. Vaughan, Ph.D.  
B.S., Central Michigan University; M.A., Western Michigan University.  
Education. Major Professor: Louis Romano, Associate Professor.  

Vedanand, Ph.D.  
B.S., M.S., University of Allahabad.  
Business Administration (Marketing). Major Professor: William J. E. Crissy, Professor.  

Harish Laxminarayan Verma, Ph.D.  
B. Tech., Indian Institute of Technology; M.S., M.B.A., Michigan State University.  
Business Administration (Management). Major Professor: Richard Gonzalez, Professor.  
Thesis. Development of a Joint Order Inventory Model.

James Gerald Vertrees, Ph.D.  
B.S., M.S., Purdue University.  
Agricultural Economics. Major Professor: Henry E. Larzelere, Professor.  

James Leonard Voogt, Ph.D.  
B.S., Michigan Technological University; M.S., Michigan State University.  
Physiology. Major Professor: Joseph Meites, Professor.  
Thesis: Effects of Exogenous Prolactin and Growth Hormone on Their Secretion by the Pituitary and on Other Hormones.

Oswaldo Voysest Voysest, Ph.D.  
Ing. Agronomo Agrarian, University LaMolina, Peru; M.S., University of California.  
Crop Science. Major Professor: M. Wayne Adams, Professor.  
Thesis: An Attempt to Overcome the Yield-Dampening Effect of Negative Correlations Among Yield Components in Beans (Phaseolus vulgaris L.).

Francis T. Wallace, Ph.D.  
B.A., M.A., University of South Florida.  
Education. Major Professor: Peter G. Haines, Professor.  
Thesis: Expressed Concerns and Expectations of Students, School Personnel and Businessmen in an Emerging Partnership Concept Among Business, Industry and Education.

Richard Gene Walter, Ph.D.  
B.S., M.S., University of Maryland.  
Business Administration (Finance). Major Professor: Roland I. Robinson, Professor.  
SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES — FALL TERM, 1970 (Continued)

SAMUEL LO-TUNG WANG, Ph.D.  
B.S., National Taiwan University; M.S., Michigan State University.  
Food Science. Major Professor: Clifford L. Bedford, Professor.  
Thesis: Glycoalkaloid and Demethyl Sterol Content in Some Potato Varieties and Clones.

CONSTANCE WALTZ WEAVER, Ph.D.  
B.A., M.A., Indiana University.  
English. Major Professor: William W. Heist, Professor.  

DOROTHY LOUISE WEST, Ph.D.  
B.S., M.Ed., Pennsylvania State University.  
Education. Major Professor: Henry Kennedy, Professor.  
Thesis: Unique Contributions of the Vocational Home Economics Teacher Educator to a Student Teaching Program Coordinated by Other Teacher Educators (An Exploratory Study).

BETTE C. WHITE, Ph.D.  
B.A., M.Ed., North Texas State University.  
Education. Major Professor: Laurine E. Fitzgerald, Professor.  

ROSS MAYNARD WHITMAN, Ph.D.  
B.A., M.A., M.S., California State College.  
Education. Major Professor: John E. Jordan, Professor.  
Thesis: Guttman Facet Analysis of Attitude-Behavior of Psychiatric Patients and Normals Toward the Mentally Ill: Content, Structure and Determinants.

LIEK WILARDJO, Ph.D.  
B.Sc., Gama University; M.S., Michigan State University.  
Physics. Major Professor: Paul M. Parker, Professor.  

LOIS QUICK WILLIAMS, Ph.D.  
B.A., University of Minnesota; M.A., Michigan State University.  
Education. Major Professor: J. Martin Clessen, Professor.  
Thesis: Reading Ability and the Effects of Perceptual Mode on Learning and Recall of Paired Associates with Acoustic or Graphic Similarity.

WILLIE SAMUEL WILLIAMS, Ph.D.  
A.B., University of Wichita; M.Ed., University of Cincinnati.  
Education. Major Professor: John E. Jordan, Professor.  

SUE ANN WISENBERG, Ph.D.  
B.S., Ball State University; M.A., Michigan State University.  
Education. Major Professor: Clessen J. Martin, Professor.  
Thesis: Initial and Delayed Retention of Relevant and Incidental Information From a Prose Passage Presented Aurally to Trainable Mental Retardates.

GENE C. H. YANG, Ph.D.  
B.S., Tunghai University; M.S., Northwestern State University.  
Microbiology and Public Health. Major Professor: Robert R. Brubaker, Assistant Professor.  
Thesis: Inhibition of the Synthesis of Deoxyribonucleic Acid in Yersinia pestis During Production of Virulence Antigens.
WALTER DONALD YODER, Ph.D.
B.A., M.A., Michigan State University.
Education. Major Professor: James L. Page, Professor.

CYRUS WILLIAM YOUNG, Ph.D.
B.A., Wayne State University; M.A., Michigan State University.
Geography. Major Professor: James O. Wheeler, Associate Professor.

RICHARD C. YOUNGS, Ph.D.
B.A., Bowling Green State University; M.A., University of Michigan.
Education. Major Professor: William J. Walsh, Professor.
Thesis: Creativity Materials for the Middle Grades: Their Development and Efficacy.

CANDIDATES FOR EDUCATIONAL SPECIALIST DEGREES — FALL TERM, 1970

DANIEL LEE BALLAST, Ed.S.
A.B., Calvin College; M.A., Michigan State University.
Education. Major Professor: Bob B. Winborn, Professor.

NILA JEAN DEGNER, Ed.S.
B.S., Andrews University; M.A., Michigan State University.
Education. Major Professor: Elaine F. Uthe, Assistant Professor.

ROBERT ERVIN DITTMAN, Ed.S.
B.S., M.A., Michigan State University.
Education. Major Professor: Harvey Clarizio, Associate Professor.

CHARLES PATRICK SILAS, Ed.S.
B.A., Duke University; M.A., Michigan State University.
Education. Major Professor: Charles A. Blackman, Professor.

EUPHA ELVIRA SKILLMAN, Ed.S.
B.S., Harding College; M.A., Central Michigan University.
Education. Major Professor: Norma Bobbitt, Professor.

MERRILL LEE SMITH, Ed.S.
B.S., M.A., Michigan State University.
Education. Major Professor: Harvey F. Clarizio, Associate Professor.

JOHN FRANCIS SPRINGER, Ed.S.
B.S., University of Michigan; M.A., Michigan State University.
Education. Major Professor: Dale V. Alam, Associate Professor.
# COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

**DEGREE OF MASTER OF SCIENCE**

**GRADUATED SUMMER TERM 1970**

<table>
<thead>
<tr>
<th>Agricultural Economics</th>
<th>Fisheries and Wildlife</th>
<th>Resource Development</th>
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<td>Scott Frederick Cristman</td>
<td>Kenneth Lee Stromborg</td>
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<td>Nair K. Damodaran</td>
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<td>Panida Jongputisiri</td>
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<td>David Eugene Swanson</td>
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<td><strong>Biochemistry</strong></td>
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<td><strong>Soil Science</strong></td>
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<td>Jeffrey Bryan Stevens</td>
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<td><strong>Building Construction</strong></td>
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<td>John Paul Bailey</td>
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<td>Bassam Ahmed Snobar</td>
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<td><strong>DEGREE OF MASTER OF SCIENCE</strong></td>
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<tr>
<td><strong>Crop Science</strong></td>
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<td><strong>CANDIDATES — FALL TERM, 1970</strong></td>
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<td>Wayne Leroy Haag</td>
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<td><strong>Agricultural Economics</strong></td>
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<td>David P. Martin</td>
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<td><strong>Horticulture</strong></td>
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<td>Gary Allen Anderson</td>
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<td>Cheryl Margo Harrington</td>
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<td>Eugene Albert Mielke</td>
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<td>Gregory Paul Pagano</td>
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<td>Vernon Arie Wittenbach</td>
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</table>

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**60**
COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

DEGREE OF
MASTER
OF SCIENCE

Packaging
Robert Max Fiedler
Daniel Lee Goodwin
Kevyn Mark Irving
Chiasiang Sam Lai
Gary Edward Morrison

Park and Recreation Resources
Ronald Kaiser
Darsan Wang

Agricultural Business
Raymond Gerald Blake
Kenneth Ignatius Koenigsknecht
Donald Otto Obrigkeit
H* Gene Alan Veliquette

Agricultural Economics
Gary Michael Gettel
Walter Jared Sperry
Earl Robert Wissman

Agricultural Mechanization
*Michael Francis Armstrong

Animal Husbandry
Penelope Kaye Freeman
Bruce Irving Holmes
Lonnie Lee Hopson
*Ralph Jarold Lipsey
Philip Edward Schmiege
*Lawrence Erving Stevens

Building Construction
Frank Thomas Howland
George Kimberly Kelch
Richard Allen Martin
Richard Alan Surato
Dennis Arthur Turbin

Dairy
Lyle Lester Eavy
Jay Charles Lemmermen
Brent Carleton Wilson

Fisheries and Wildlife
Phillip L. Casterton
David Alan Dobbs
Leon Lewis Fewlass
Janet Hentschel
*Thomas Vern Kreh
William Howard Lack

Poultry Science
Edward Arnold Cogger

Resource Development
Gordon Robert Anderson
Ralph Edward Christensen
Rodney Hans Despain
Douglas N. McEwen
Waldon Theodore Miller
Denis Cornelius Nelson
David Dennis Olson
Jan Herman Raad
Earl Phillip Updike

Soil Science
Dennis Byron Fenn

DEGREE RECOMMENDED
JOINTLY WITH THE COLLEGE OF ENGINEERING

Agricultural Engineering
Timothy Wendell Evans
Othman Mohammad Judah
Ismael Obwoya Uma

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

DEGREE OF
BACHELOR
OF SCIENCE

Agricultural Business
Raymond Gerald Blake
Kenneth Ignatius Koenigsknecht
Donald Otto Obrigkeit

Agricultural Economics
Gary Michael Gettel
Walter Jared Sperry
Earl Robert Wissman

Agricultural Mechanization
*Michael Francis Armstrong

Animal Husbandry
Penelope Kaye Freeman
Bruce Irving Holmes
Lonnie Lee Hopson
*Ralph Jarold Lipsey
Philip Edward Schmiege
*Lawrence Erving Stevens

Building Construction
Frank Thomas Howland
George Kimberly Kelch
Richard Allen Martin
Richard Alan Surato
Dennis Arthur Turbin

Dairy
Lyle Lester Eavy
Jay Charles Lemmermen
Brent Carleton Wilson

Fisheries and Wildlife
Phillip L. Casterton
David Alan Dobbs
Leon Lewis Fewlass
Janet Hentschel
*Thomas Vern Kreh
William Howard Lack

Food Science
Cathy Ann Schafer

Forestry
*Melvin Jay Baughman
*Charles Martin Bright
Gary Norman Leinonen
Michael Robert Renwick
Larry J. Tessin

Horticulture Marketing
Walter Nicholas Karony, Jr.
William Ritchie Smith

Horticulture Science
Edward Ross Grant
Catherine Huff Hasselback
Daniel Karl Sell
Dennis William Strauss

Lumber and Building Materials Marketing
*Michael Edward Kessler

Packaging
Sanford Preston Ames
Robert Eric Anderson
Raymond Arthur Balbach
Thomas Michael Ball
James Allyn Bennett
Jeffrey Bien Block
Thomas James Brodie
Daniel Kent Bruce
Richard William Childress
Robert Bruce Crowe
Michael Owen Duvall
Charles Lee Frasier
David Crittenden Garland

Resource Development
*Susan Helen Maki

DEGREE RECOMMENDED
JOINTLY WITH THE COLLEGE OF EDUCATION

Agricultural Education
*Douglas Ray Davidson
*Craig Allen Edgerly
William K. Farmer
Ricky R. Rockwell

Fisheries and Wildlife
Fred Dalton Herring
GRADUATED SUMMER TERM 1970

Civil Engineering
Hyo Nam Cho
Khojasteh Farhang-Ardakani
Luiz Flavio Autran
Monteiro Gomes
Rodney W. Lentz

Computer Science
Chun-Teh Wu

Electrical Engineering
Bruce Edward McComb
Alexander Brisbane Murphy

Mechanical Engineering
Anwar Rahman Daudi
Arthur Thomas Morton, Jr.

Metallurgy
Richard Edward Schafer

Systems Science
David Harold Curtice
Forrest John Gibson
Leena Lian

CANDIDATES — FALL TERM, 1970

Chemical Engineering
Vinod Krishna Das
Dhirajlal Morarji Gosar
Ted Alan Kleinhenz
Mahendra J. Shah
Sureshchandra M. Sheth
Jagadeswara Rao Tipirneni

Civil Engineering
Abdola Lari Rastegar
Hakimuddin Shakir
Hossein Dormiani Tabatabac

Chemical Engineering
Fletcher E. Allen
James Eugene Cole
Arthur Albert Rasher
Harold Robert Weinhaus

Civil Engineering
Lawrence Joseph Doyle
Dwight Allen Hornbeck
Victor James Pilar
Jon Fordney Rice
Terry Louis Walkington

Computer Science
James Richard Krause
David Leo Leutz
David John Pallas
Donald William Porter
Fred David Rosenberg

Electrical Engineering
*Dallas T. Cushman

Mechanical Engineering
Falk Mehmet Arsever
Mirza Siddio Beg
Angelo Dimitriou
Shahrooz Fath-Azam
Carl Edward Grove
Donald Edward Livesay
Warren E. Snogren, Jr.

Mechanical Engineering
Suresh Ranganath Dahade
Deepak Gurunath Kanaglekar

Mechanics
Donald G. Baird
Joseph Francis Binkowski

Systems Science
Juris Arturs Uktins

Metallurgy
*A. Wayne Coursol

Mechanics
Don Armand Rousse

Systems Science
Michael Allen Hogle

Systems Science
*Donald Wayne Johns

Agricultural Engineering
R. Kent Collins

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

Agricultural Engineering
R. Kent Collins
COLLEGE OF HUMAN ECOLOGY

JEANNETTE LEE, DEAN

GRADUATED SUMMER TERM 1970

DEGREE OF
MASTER
OF ARTS
Child Development
Kristen Marie Anderson
Joyce Diane Bischoff
Shelley Joyce Bjorkman
Dixie Lee Hesler
Sandra Marie Jörgensen

Family Studies
Gayl Anne Alexander
Sister Christiana LeBlanc, S.S.J.
Judith Allen Moore

Home Management
Margaret Lorraine Bucklin
M. Charline Hatchett

Textiles and Clothing
Charlene Duch Allen
Shirley Jean Feuerstein

DEGREE OF
MASTER
OF SCIENCE
Foods
Sandra Lynn Smith

General Home Economics
Monica Mary Kim
Marian Milarch Zupin

Home Economics Extension
Audrey June Emery

Institution Administration
Carl Edward Davis
Sister Roseann M. Koskie

Nutrition
Constance Maxine Parks

CANDIDATES — FALL TERM, 1970

DEGREE OF
MASTER
OF ARTS
Family Studies
Rajwant Kaur Grewal
Dorothy Hibbs Riley
Susan Ferne Simmons

Home Economics Education
Erlinda Luz T. Demeterio
Susan Elizabeth Parrish

Textiles and Clothing
Patricia Jo Falardeau

DEGREE OF
MASTER
OF SCIENCE
Institution Administration
Shirley Beverly Markel
Ann Marie Messersmith

Sister Bernadette Mary Novack

Nutrition
Angela Kung-Abi Young
COLLEGE OF HUMAN ECOLGY

COMMUNITY SERVICES
*Tanya Darlene Bennett
Janet Louise Landry

DIETETICS
Janine Adele Renfrew

GENERAL HOME ECONOMICS
*Margaret Gail Anderson
*Helen Ruth Bartlett
Marie Josette Brinkman
Catherine Elizabeth McNelly
Kathleen Diane Rabbers
Sharon Anne Thompson
Melinda Anne Wallace

HOME ECONOMICS WITH COMMUNICATION ARTS
**Kathryn Marianne Kolasa

INTERIOR DESIGN
Marilyn Cummins
Roberta Ann Davidson

John Allan Eby
Jayne Elizabeth Grohman
Linda Johanna Hinchey
Evelyn Joey Owens

RETAILING OF TEXTILES AND CLOTHING
A. Pamela Argersinger
Patricia Ann Buckley
Mary Patricia Conkle
Lenna Diane Cummings
*Karen Rita Edquist
Carole Anne Hudenko
Donna Palango Lertola
Susan Diane Miechiels

H**Jannis Ann Mollenkopf
Betty Jane Pijut
Nancy Ellen Potter
Linda Catherine Studders
*LYNN Kay Wittenbach
Van Drie
Carol Ann Ziegler
Mary Louise Zimmerman

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

CHILD DEVELOPMENT AND TEACHING
H**Mary Lynn Allen
Joan M. Cunningham
Suzanne Claire Hanley
Marianne Wess
Frances Claire Wright

HOME ECONOMICS TEACHING
Cynthia Daroci
Cynthia R. Dible
Jeannette Halladay
Mary M. Harp
Carolyn Sue Hines
Stasia Harriet Kambos

H**Karen Kay Kuechenmeister
Kathleen Mary Phelan
Patricia Ann Thiel
Mary Lynn Truemner
Linda Louise Wood

H HONORS COLLEGE
* WITH HONOR
** WITH HIGH HONOR
COLLEGE OF VETERINARY MEDICINE

WILLIS W. ARMISTEAD, DEAN

GRADUATED SUMMER TERM 1970

DEGREE OF
MASTER
OF SCIENCE

Pathology
Kenneth Marshal Ayers
Ralph Lawrence Muhm

CANDIDATES — FALL TERM, 1970

DEGREE OF
DOCTOR OF
VETERINARY
MEDICINE

*Griffith George Acker
**Lance Edward Adams
*Robert Kenneth Anderson
*Paul Robert Bannow
William Rooney Bell
*Joel Jeffrey Beren
**Harry William Boothe, Jr.
*Robert Lee Boughner
*Peter Louis Brockman
Alan Phillip Davis
Russell James Dillon
John A. Eagling
Cynthia Eichman
Douglas Lynn Engers
Lester William Faremouth
Laurel Jeanne Ferris

Henry William Francisco
**Michael E. Hall
*William Russell Hare, Jr.
Noreen Virginia Harris
Drexel Kyle Hull
*Sharon Lee Jakubas
David Alan Komitor
Mark Watson Lanier
Terence Arnold Locke
**John Michael Losonsky
David Floyd Norton
*DuWayne Allen Penfold
*Patricia Ellen Price
*Thomas John Richter
Samuel V. Rowell

DEGREE OF
MASTER
OF SCIENCE

Anatomy
Robert Irvin Klingler

Large Animal Surgery
Kenneth Edward Gertsen

and Medicine

Microbiology and
Public Health
Boonchuay Dulyasukdi

Pharmacology
Joseph Edward LeBeau
Philip Friedrich

VonVoigtlander

Pathology
Jorge Antonio Villar
Frank Albert Voelker

DEGREE OF
BACHELOR
OF SCIENCE

Veterinary Medicine
James Karl Beebe
**Beverly Ann Gilroy

* With Honor
** With High Honor
COLLEGE OF BUSINESS

KULLERVO LOUHI, DEAN

GRADUATED SUMMER TERM 1970

DEGREE OF

Economics

Helmut Guenter Hauser

Mary Jo Watkowski

OF ARTS

Graduate School of Business Administration

Yusef Rabah Abu-Khadra
Carl Marvin Adema
John Robert Akers
Thomas Robert Anderson
Jose Alfredo Aranda
Inal Cem Askun
Mehdi Azimi-Talibrizi
Stephen Michael Bachand
Bruce Alan Baldwin
Robert E. Barton
Richard Edward Besse
James Harold Beeson
Richard Michael Blake
Michael Alan Bohannon
Laurent Joseph Rene Brunet
Semih Buken
Birol Bumin
Steven Burchik
Guillermo Santiago Burga
Eugene Ralph Burgess, Jr.
Richard Parker Butler
Jose Calderoni-Arroyo
Sara Jean Clemens
Michael Peter Croll
Donald DeWain Cross
Peter Cliffe Dahlberg
James William Damitio
Gregory R. Dietz
John Robert Ekey
Hasan Guler Erdonmez
Michael James Feeney
John David Felt
Kenneth G. Firehaw
Richard Stratton Geary
Robert Henry Gentzner
Erich Gross
Lawrence Linton Grover
Rudolph Elmer Gulstrand, Jr.
Neil Leslie Harmon
David L. Haslanger
H. Garrett Hayward
Gary Edward Heaphy
Robert Begele Heaps
Gary Alan Henriksen
Robert Charles Hodgson
Richard Allen Hoefer
Terrance Thomas Hoeflerle

Peter Charles Holman
Junying Huang
William Theodore Huebner
John Blaine Idema
Richard Allan Janz
Charles Timothy Jockwig
James Patrick Johnston
Tomas Bruce Johnstone
Thomas Joseph Juchniewich
Henry Leonard Kaminski
Joseph Aloysius Karle, III
Martin Ronald Kenealy
Manoutechekh Kla
Thomas Lorin King, Jr.
Dan Gene Kipping
James Walton Knight
James Edward Kosinski
Matthew Arthur Krakower
Jacques Jean Lacour
Madian Raj Lahlawi
David Edward Large
Jean-François Michel
Richard
Mark William Livermore
Stephen Kent Lonning
Donald Martin Lorton
Howard M. Mager
Maynard L. Mann
Victor Antonio Marcos
Kenneth Eugene Martin
James Jefferson McCleary
Robert Joseph McDonnell
John F. McLane, Jr.
George Gust Melios
Patsy Joan Mellott
Michael Leslie Mers
Timothy David Meskill
Ann Helen Michaels
Dennis Jack Moorhead
John Terence Moore
Joseph Edward Morgan
Mark Charles Morse
Richard William Norlander
Denis Carl Ohren
Patricia Ann Orsay
Frederick Alden Otto

Steven Henry Parker
Robert Andrew Pasanen
Donald Lee Pattengill
James Blair Patterson
Richard E. Peterson
Douglas Norman Pfaff
Robert James Pliska
Philip Eugene Poulsbo
Ward Stephen Behkopf
Leo Mark Renaghan
Vaughn Del Roller
Joseph Marcel Rougeau
Edward Channing Rouillard
Pedro Antonio De Los Santos
Horace Jay Savage
Richard James Seif
Richard Charles Shorkey
James Bullard Short
Lester C. Shu
Roy Jon Simon
Stephen Curtis Smith
George Samuel Steen, Jr.
Richard Howard Sterling
Earle H. Stevenson
Robert Marshall Stross, Jr.
Thomas Gerald Tarvis
Osman Telimen
Birol Tenekcioglu
James Jay Thompson
Stephen Lee Thompson
Willard Nelson Thompson
James Edward Turner
David Richard Vance
Paul E. Vliek
Charles Erik von Reis
Hang Fung Wang
Dennis Vincent Ward, Jr.
Richard Davis Weaver
James Robert Webster
Peter Whistance-Smith
Clifford Wayne Wilson
Bradley Deane Wilson
David Arthur Winkelman
Joseph Bitner Winthin, Jr.
Douglas Robert Wright
Ibrahim Yazici
## CANDIDATES — FALL TERM, 1970

### DEGREE OF

**Master of Arts**
- Economics
  - Jonathan Hervey Francis
  - Norberto Frigerio
  - Edmund Emerson Gray
  - Evan Jones
  - Charles Stanley Mason
  - Brigitte Helene Sellekaerts
  - Phisit Setthawong
  - Barbara Ruth Spannaus
  - Eric Frans Tollens

### GRADUATE SCHOOL OF BUSINESS ADMINISTRATION
- Robert Hervey Aldrich
- John Raymond Anderson
- Ole Nelson Anderson
- Jose Carlos E. Arena
- Bintug Aytek
- Lloyd S. Baird
- John Eldon Ball
- William Wallace Ballantyne
- Douglas Allen Barclay
- John Walter Bauchman
- Zelma Josie Bennett
- Philippe Michel Brasseur
- Dennis Jack Brieske
- David B. Brower
- William J. Brown
- Terry Allan Buller
- Mehmet Kemal Burat
- Huseyin Kamil Buyukmirza
- Wesley Forrest Byloff
- Patrick Gregory Fox
- Sergio Topacio Goquiolay
- Stanley Edward Guiski
- Victor Guillermo Gutierrez
- James Hugh Hartl
- Werner Paul Hauer
- Norman Rhodes Haynie
- Thomas Marshall Hein
- Zach Ervin Holmes
- John Stephen Horner
- Kevyn Mark Irving
- John A. Jacobs
- William Harlan Jakad
- Miguel Tovar Jarero
- Russell Kaminski
- Kevin John Kelly
- Michael Ralph Killian
- Theodore Walter Kinkel
- Robert Jackson Kleine
- George Marion Kolasa
- Robert Dan Lamoreaux
- Ronald M. Larsen
- Raymond Lehey
- Janusz Tadeusz Leja
- Michael James Littlefield
- Michael Paul McConnell
- Wataru Nagata
- Oscar Cabahug Noble
- Michael Edward O'Neill
- Lutfu Oner
- Thomas James Peckham
- Edwin Stevens Perry
- Gary Richard Peterson
- Joseph John Phillips
- Calvin James Pratt
- Larry Wayne Reed
- Gerard Anthony Reidy
- Dale Vincent Reiner
- Randall Earl Rennpage
- Jay Calvin Ritchie
- Timothy Edward Roddy
- Lauro Rodrigues
- Miguel Enrique Rojas
- William Rowland Russell
- John George Russo
- Telmo Schoeler
- William Joseph Scothorn
- Mack William Seney
- V. P. Shanmugum
- Ural Sozen
- Manfred Anton Staab
- Roger Andrew Strang
- James Alton Stroup
- Chachavan Sukitjavanich
- Luis Jose Tarazona-Cote
- George Edwin Tilden
- Richard Arthur Tjarksen
- Michael Donald Tuttle
- Gerd A. Ueberra
- Mehemet Selcuk Uslu
- Jon J. Vander Zouwen
- Kanchana Vearasilp
- James Curtis Welch
- Judd Craig Wellard
- David DoWayne Wesselink
- Keum Hak Whang
- Bay Neville Wrisley
- John E. Yoder

### DEGREE OF

**Bachelor of Arts**
- Accounting
  - John Richard Bell
  - Vincent Joseph Cesarz
  - Wilma Jean Chapman
  - Bernard Thomas Dare
  - Karl Frederick Dreier
  - William Aaron Evans
  - William Sheldon
  - Gladstone, III
  - Robert Earl Hagedorn
  - Gary Norman Hooper
  - Michael John Hoy
  - Thomas Stephen Jaskolski
  - Philip Eldon Kline
  - John J. Lauffer
  - Peter Rochford Devine
  - Bettina Echt
  - Thomas P. Freismuth
  - James Michael Heukels
  - Roger Paul Klee
  - James Otto Kopietz
  - Cheryl Diane Lalk
  - John Anthony Myers
  - Ronald Mark Ossipove
  - Leslie C. Ravitz
  - John Patrick Spencer
  - Stuart Moulton Vaughan, Jr.
  - Michael Hugh Ward
  - George William Zimmerman
### Financial Administration

- J. Edward Day
- Douglas Willard DeLeeuw
- William George
- Frederick, II
- Alvin Junior McChester
- Donald Paul Pleva

**H** Thomas George Welsh

### General Business Administration

- Peter Michael Agnone, Jr.
- Larry Duane Applegate
- H. Michael Barbee
- John Begtoz, Jr.
- Ronald Bruce Borngesser
- Jack Donald Brown, Jr.
- Ronald Lynn Brownlow
- James Kerry Burd
- David Warren Cautkett
- John Daniel Collins, III
- Brian D. Converse
- Peter Slade Damon

* Dennis Ronald Doyle
* William James Frantz
* E. Bruce Gillespie
- Robert Steven Graham
- William Kirkland Greene, Jr.
- Louis S. Haas
- William Robert Hart
- Robert Paul Hockman
- Michael H. Honold
- Marvin James Howle
- Daniel M. Hubbard
- James Joseph Jablonski
- Patrick Allen Jacobs
- Eric Lynn Johnson
- Michael Richard Knoblock
- Barry Michael Kudrick
- John Hunter Lapelle
- Carolyn Ann Larabell
- Michael David Marks
- Alexander Campbell Maul
- D. Bruce McCormick
- Henry Charles Miller
- Charles Reginald Moore
- William John Nunn
- Patrick Joseph O'Keefe
- James Bryce Orr
- Larry Frank Reisner
- Michael Louis Remondino
- Terence Vincent Roberts
- Robert John Rowling
- Ronald Burck Sambaer
- Jeffrey F. Savery
- Thomas Allen Schildhammer
- Dennis Wayne Schoenrock
- Charles Jacob Selbert
- Dean Linwood Spangler
- Thomas John Tacket

### Hotel and Restaurant Management

- Roger Bruce Tallman
- Van Patrick Thornton
- Gary Alan Walter
- John William Wetzel
- David William Zimmerman

### Hotel, Motel, and Club Management

- Rodman Elder Harris

### Hotel and Restaurant Management

- James Nelson Adduci
- Mark Fisher Blinder
- Thomas Adair Correll
- John Richard Farris
- Smith Davis Hayward, Jr.
- Terry Lee Heidtman
- Michael Pope Higgins
- Gary Jon Kaiser
- Darel D. Lantz
- Jeremy P. Lumianski
- Carla Sue Marsik
- Donald Ross Mendum
- Lon Millstone Orenstein
- John Baker Parker
- Ernest James Scott
- Gary A. Severn
- John Edward Uhrick
- James Neal Vogt
- Michael Joseph Ziolkowski

### Industrial Administration

- Eugene Fred Backer
- Richard William Heitman
- Theodore Alfonse Jacques
- Lloyd Angelo Kimbrell, Jr.
- Donald Eugene Loreman
- David Charles Lyiynen
- Kenneth Charles Merritt
- David Roy Moore
- Robert Allen Nelson

* James L. Sanford

### Marketing

- Wellington R. Burt, II
- Peter R. Chapman
- Jonathan Ames Dempster
- Gary Robert Dodd
- Calvin Jay Fox, Jr.
- William David Bankish
- Donald Grant Gardner
- Robert Burns Guyot, III
- Gerald Peter Holmes
- Thomas R. Jennings
- Martin Paul Kravitz
- Bruce Gregory Krieger
- Jack Allen Leemgraven

* Theodore Dean Lasley

### Office Administration

- Leslie Sue Carman
- Betty Ann Kronemeyer

### Personnel Administration

- Ronald R. Alderson
- Duane James Bazzett
- Francis Raymond Butler
- Gary John Dayton
- James Edward Flood
- Terry Eugene Fulbright
- Terry Alan Gowen
- Edward Warren Hollister
- Terrence David Rivard
- Henry Allen Sachs
- William Allan Safko

### Transportation Administration

- Glenn Thomas Muncie

### DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

### Business Education

- Barbara Ross Barnum
- Joan Nancy Franczek
- Marilyn Lorena Hinderer
- Thaddeus L. Prokopowicz
- Marianne Patricia Rehmann
- Jane Lou Warner

### Business and Distributive Teacher Education

- George Joseph Gembis
- Douglas Clay Smith

### Distributive Education

- George Edward Jones, III

### Economics

- Gordon Jack Light
DEGREE OF
MASTER
OF ARTS

GRADUATED SUMMER TERM 1970

Education
Mary Angela Abel
Dean Adams
Abraham Ralph Albenda
Donna Mae Ambis
Richard Thomas Arpin
Patsy Francis Arpino
Margo Susan Averbach
Jonathan Paul Bacon
Robert Raymond Bailey
Pamela Jeanne Bakeman
Jack Rodney Baker
Sue Jo Bakita
Martin Henry Bakken
Virginia Borglin Barber
William Jerome Barnes
David J. Bartels
G. William Bartow
Jane Ophelia Bass
Mary Elaine Bassil
Phyllis Arlene Bayer
Gary Melvin Beebe
James Allen Bennett
Rosamary Bennett
Nancy Ann Benson
Norma Lou Berry
Siestre Joseph Marie Biddle
Dorothy W. Bird
Sandra Leona Birdsall
Mary Ellen Bizzi
Thomas Richard Blackford
Joyce Marie Blackmore
Willie Ray Blair
Bert R. Bleke
Francis S. Blom
Christiana S. Blume
Linda Kay Bode
Marcia Ann Boheme
John Walter Bogue
Jacques Bouchard
Robert James Bouck
Walter Lylle Bowman
Jean Marie Boyian
John H. Braccio
John Winship Braidwood
Mary L. Brazee
Judith Ann Brien
Charlie Richard Brigham
Paul Allen Briner
John Andrew Brooks
Bonnie Marjory Brown
Virginia Van Pelt Brown
William Albert Browne
Robert Keith Bryant
Richard James Budden
Nancy Alma Burkle
William Farrell Burns
Dale Giles Bynum
Lloyd Enoch Campbell
John E. Carney
Janet Marie Carr
Donnard Castle
Bethel Grace Chadwick
Marilyn Ruth Cheney
James Douglas Christie
George Clarke
James Daniel Cochran
Elizabeth Kay Coggins
Sandra Beatrice Cohen
John Harris Collins
Stephen Paul Connolly
Ola Marie Cook
Suzanne Cook
Bonnie Lynn Corwin
Neil Robert Coté
Margaret J. Hornby Courtney
Martha Hill Covert
Carol Clement Cox
Shirley Arlene Crawford
Cunningham
Maria Angela Cuoco
Donna Marie Czubinski
Kathleen Ann D'Alessandro
Sumitra Dangubutra
Karen Sue Danley
John Raymond Dantuma, Jr.
Chris Gordon Davenport
Robert Dwight Davidson
Mary Ann Davis
Ernest Frederick Dawson, Jr.
Patricia Ann Dearbaugh
Rosemary Anne DeHoog
Brian Beryl Delbridge
Bryan Edward DeLeo
Mary Rose Denney
Andrew Raymond Desetto
Marion Y. Deviney
Marjorie Louise Dilley
John Wesley Donaldson
Thomas Anthony Dooman
Joanne Lynne Downer
Howard Wayne Drew
Condit Drury
Billie Anne Dugan
James Laurence Dunn
Karen Ann Dykstra
Sue Ann Edlin
Joseph Olugbemiro Efuntade
Mary Ann Egnatuk
John Virgil Ellis
Elvin L. Ellison
Thomas William Elsey
Kenneth Charles Erickson
Robert Carl Erickson
Daniel Edward Ernst
Robert Wayne Ervin
Michelina Falcettelli
Kathryn Ann Ferguson
Sandra Kipp Ferguson
Alice Gail Fidler
Madeline Frances Flaster
L. Kathleen Fleming
David Berl Foerch
David John Fogarty
Alice Gertrude Foster
Bonnie Lee Fox
Patsy Ann Fox
Katharine Elizabeth Frakes
Detlef Johann Frank
Judith Anne Frank
Ronald Sanford Freeland
William Harold Freeman, Jr.
Christine Teresa Fugiel
Mary Angela Russo Fuller
Robert William Gagninuk
Dorothy Jean Kay Gardner
Nancy Karen Gardner
Ellen Terry Gass
Phyllis Jean Gehl
Robert Arthur Genke
Herbert D. Gibbs, Jr.
Frances Laura Gibney
Garth Edward Gillet
Louse Hidecker Gilman
Doris Elaine Goad
Fred Joseph Goers
Waleed Kael Goyamie
William Henry Greene
Lynne Robert Gregory
Ann C. Gross
David Lyle Grove
Mary Gettings Gruber
Gerald Charles Gruelke
Edgar E. Haase
Ann Marie Hackel
H. Marion Hake
Benjamin Edgar Hall
Linda Anne Hall
Zack Earl Hamlett
Thomas C. Hammond
Janet Lucille Harris
Hilda Marie Harvey
Barbara Rolfs Haas
Jeffrey Wayne Hatter
Wayne Lewis Haupt
Pamela Sue Hawkins
Sharon Lynn Hawley
Frances Austin Haynes
Ronald Lee Haynes
Robert Wayne Heacock
John C. Healy
Mark Albert Hector
Iva Jeanne Hendershot
Marilyn Pearl Hennon
Wayne Bernard Herman
Sandra Neely Herndon
Edward Robert Herzberg
James Kenneth Hill
Richard Dale Hillaker
Margaret Grace Hillier
Mary Katherine Hilton
Philip Wayne Hollar
Dolores Anne Hood
Mary Joanne Howard
George Allan Hubka
Jeffrey William Hudson
John Sidney Huhn
Steven Tye Hurtt
Susan Ruth Ironside
Randall Mark Isaacson
Richard A. Jackson
Barbara Jean Johnson
Jean Carole Johnson
Earl F. Jones
Pauline A. Jones
Wallace Alexander Juall
Carol Edith Kasworm
Arlene Mae Katerberg
John Phillip Kaus
Anne Marie Keaney
William John Keller
Jerry J. Kelley
Hope Meredith Kenerson
Malissa Kengchon
Michael Earl King
Roberttha Beth Klein
Jean Louise Krauff
Mabel Verda Knicol
George R. Koski
Sue Cass Koziol
Richard Harding Krager
Helen Collins Kramer
Sheila Joy Krauss
Victor Roger Krawczyk
Janet Ann Kreichelt
Nancy Carol Kresko
Sharon Sue Krantz
John Frederick Kroon
Marjorie Ann Kropf
Nguyen Thi Xuan Lan
Nancy Ann Landers
Shelby Smith Larsen
Stephen Victor Laske
Truong Thi Le Khanh
Victoria Rosemary Lepisto
Karen Lillian Linden
Thomas Randle Little
Robert Lee Lloyd
Mary-Margaret Lopushinsky
Jennie Lynn Loudermilk
Kirk Bryan Louis
Dennis Martin Loy
Barbara Jane Lyon
John Ernest Lyon
LeRoy A. Mabry
Betty Marie MacDonald
Linda Jean MacDonald
Michael James MacDonald
Lynn Anne MacIntosh
Jessie Mae Mack
Dorothy Olga Majors
Elinar Annetta Manley
Margaret Lucile Mantke
Ann Brutschy Martin
Louis Martin
James Burnham Martin
Sandra Lee Mason
Robert Michael Matsko
Felix Joseph McCarron
John Terrence McCauley
Marcia Lee McCollum
Linda Belle McDonald
J. Donald McDougall
Earl Eugene McKee
Charles D. McKenzie
Carla Jane Evans
McLaughlin
James Paul Medeiros
Janet Lee Melville
Ronald Lewis Merilliat
Frederick William Meyers
Susan Lyons Miller
Donald Robert Mitchell
Julia M. Mitchell
Patricia Anne Mitchell
Judith Anna Moline
John Monoma
Ruth M. Hoyt Montney
Prachoom Mookdee
Brenda Ann Morad
Louis J. Morgan
George Ventress Morris
Susan Carolyn Morris
Donald Robertson Mosher
Edward Roy Munger
Callie Miller Murphy
Mary Catherine Murphy
James Russell Muskopf
David Merton Neese
Patricia CreeCree Neff
Andrea Salzwell Nelson
Bernard Edward Nelson
Marilyn Carol Neuburger
Sharón Emily Nichols
Charles Kenneth Niles
Robert John Nyquist
Carl Thomas Nystrom
Thomas Joseph O'Brien
Carolyn Gertrude Olsen
Robert Clarence Olson
Cynthia Ann Omans
Pearlene H. O'Neal
Donna Jean O'Ryon
Samuel R. Osborn
Howard Jones Osborne
John Keith Ostien
Melton Douglas Owen
Lucille Gaffney Oxendine
Frederick Robert Pamentier
Monty Oliver Parker
Robert Wallace Passi
Merilee Griffin Pearson
Roger Lee Perkins
Barbara Jane Perles
John Joseph Peters
Betty Rae Petersen
Arthur Ward Peterson
Jo-Alyce Karen Peterson
Lee Ellen Phillips
Kanit Phomchusri
Mary Margaret Pike
Resa Susan Plattner
Robert Manford Poland
Ruth Horn Pool
James Henry Poppink
Donald Lee Porter
Eddie Porter
Terry Lee Post
Charles Jack Potts
Charlene Anne Pryor
David Lee Quinn
Mary Ann Ramisch
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Jacqueline Annette Resh
Creta Ellen Rey
Kenneth Lee Rhodes
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George Edwin Riebs
Lynne Marie Rieck
Mary Frances Riemersma
Wayne Alvin Rietberg
Marylín R. Ristevich
James Dwight Rohr
George Randy Robbins
Alyce Yvonne Robey
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Ronald Kent Roettger
Ronald Neal Rosen
Douglas N. Rowley
Myra Joy Rozeeboom
Arthur William Ruddy
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Lynn Saroni
Barbara Jeanne Sawyer
Gerald Leroy Schaffer
Charles Raymond Schindler
Freida Willis Schneeberger
Joseph Anthony Schubert
Merton Charles Schuler
Pamela Ann Schuler
Judith Anne Scripere
Frederick Henry See
Karen Marie Sefek
Richard Anton Sgarlotti
Margaret M. Shaub
Lanny Gates Shepard
Karen Louise Shutta
Rosemary Skehan
Roger Lee Smart
Alfred Allen Smith
Gordon Clark Smith
Mary Ann Smothers
Mary Louise Sokoloski
Penelope Nicki Soter
George Royal Spencer
Jack Francis Spring
Nancy Ree Staal
Ellen Elizabeth Stauffer
John Allen Steege
LeRoy Dale Steginka
Elaine Stephens
Russell Jay Sterenberg
Robert Duane Stob
CANDIDATES — FALL TERM, 1970

Education (Continued)

DEGREE OF
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OF ARTS

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Jerry Arnold Strawderman
Penchan Supachit
Larry Gordon Sutton
Chareonnop Suvanachot
Bruce Everett Tanner
Phyllis Joella Terrian
Otho Pence Thompson
Scott Raymond Thompson
William Harry Thompson
Jean Helen Tipton
Jacqueline Lou Trancik
Cora Ann Troy
J. David Turner
Suellen Eve Usiak
Antonio S. Valbuena Paz
Cornelia H. Van Dyk
Warren Ray Van Tongeren
Nancy Lee Mercaldo
VanWagner
John David VanWinkle

Lolis Yvonne Veal
Gerald Michael VerHeek
Dragica Dada Vurdalja
Leonard Paul Waclawski
Christopher Ross Wagner
Harriet Hollies Walkowski
James Donald Walters
Thomas Jerry Wandrey
John D. Ward
Ronald Floyd Warren
James Thom Weaver
Clifford Paul Weber
Robert Alexander Wegner
Allen Weinberger
Carl Leon Western
Charles Edward White
Dennis Valentine Whitehead
Pauline Jean Wiese
David Lynn Will
Jean Anne Williams
Maxine Eleanor Williams

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Corinne Lockwood Worden
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Frank Grider Young
Patricia Williams Youstra
Joseph John Zaborowski
Sharon Ann Zaleski
Carol Jean Zaremba
James Allen Zeedyk
RuthAnn Tennant Zeigler
Richard Benjamin Ziglar
Connie Ann Zimmer
Bennie Zukowski, Jr.

Education

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Alice Dotson Bates
Judith Ann Battenschlag
Gerald Gilbert Battle
Newton Dwight Becker
Howard Gene Belton
Zola E. Boone
Carlton Thomas Boutwell
Charles Edward Brown
Richard Bryant
Annabelle Winfrey Buckers
Judith Ann Buffenbarger
Hugh Earl Burkett
Stephen Jon Bushouse
Lee Duncan Cameron
Gary James Castonia
Margery Ellen Caughey
Margaret Mencenberg Chase
Thomas Ernest Chisholm
Larry L. Cole
Carol Morgenstern Conn
Sheryl Lynn Avery Cook
Rita Costick-Ward
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Stella Ruth Courtney
Norma Jean Craig
William R. Dahm
Roselle Wilson Davenport
Judith Lane Davidson
Nancy Ann Dawson
Leroy Walter DeLisle
Linda Jean Dittmer
Mabel Alice Duch
Barbara R. Edgington
Leon Everett Fassett
Susan Ann Fedorchak
Donald Charles Fingal
Charles Peter Fortunato
Marilyn McLintock Francis

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Mary Joanne Grime
Diane Simons Hammerman
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Katherine Anna Hawks
Richard Arland Hill
Kwok-wai Ho
A. Joseph Hollerback
Mary Frances Hopkins
Ann Morgan Hunemorder
A. Virginia Huntlo
Barbara Hessel Jackman
Virgil Louis January
Sally Gordon Johnson
Alan Edward Kaczanowski
Lois Jeanne Kelly
Ann S. Kennedy
Withaya Khantawichai
Jo-Ann O'Neill Killinger
Duratat Koovisal
Kenneth Kenji Kumasawa
Lucille Picciano Kushner
David Allen Lauridsen
Soo San Lee
Pamela Joy Leonard
Patricia Yvonne Leonard
Jane Marie Lewis
Lina Centollella Love
Charles Lewis Lucia
Martha Yahnka Luneke
Trudie Ann Marks
Sri Muljani Martanah
Robert Eugene Mehoke
Jacqueline M. Meier
Jerome Peter Middgard
William Curtis Mitchell

Donald Stanley Morrill
Kathleen Moses
Linda Sue Moxley
Georges Andre Nadeau
James N. Nevels
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David Nathaniel Oegema
John Alton Ormand, II
Wayne Douglas Parker
Gerald Foster Peaks
Charles Fredrick Pegg
Martha Mary Picchette
Alice R. Platt
Martha Michele Poorman
Patricia Marie Prichard
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Ondra Theophilous Robinson
Anselmo Landin Rodriguez
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George Harry Rosingana
Sylvia Bly Ross
Avraham Scherman
Tommie Sue Schindler
Verne Gordon Schmickley
Lawrence F. Schmida
Janice Barnes Schmitt
Thomas James Schrauben
Janet Louise Schuch
Michael J. Senzig
Mary Joanne Shea
David Leahy Smith
Margaret Joanne Smith
Joyce Andrea Soule
George L. Spear
Robert Edward Steele
Gerald L. Stone
Henry Albert Stoutenburg
Alberta L. Strang
### College of Education

#### Degree of Bachelor of Arts

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<td>J. C. Williams</td>
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#### Elementary Education

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#### Health, Physical Education and Recreation

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<td>Thomas Alan Kutskinski</td>
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<td>Dianne Kaye Spero</td>
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<td>John Anthony Schneider, II</td>
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<td></td>
<td>Edwin Terry Shellhorn</td>
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*H Honors College

**With Honor

**With High Honor
COLLEGE OF COMMUNICATION ARTS

JACK M. BAIN, DEAN

GRADUATED SUMMER TERM 1970

DEGREE OF MASTER OF ARTS

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Linda Sue Pemberton
William Dennis Williams
Upton Donald Woodyard

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Carol Ann Cascais
Lynda Faye Cotter
Daun Christine Dickie
Kathleen Marie Donahue
Nancy Jill Epstein
Mary Agnes Garrity
Lisa Nell Holstead
Connye Yvette Lilly

Rosemary Lucinda Maxem
Cynthia Anne McQueen
Elia Singh
Kenneth G. Smith
Jane Eileen Wittkopp
Michael Edward Zenz

Communication
Robert Toombs Dixon, Jr.
Richard Reynold Goerz
Alfred Everett Wilson

Journalism
Elizabeth Ann Lewis

Television and Radio
Charles Garo Ashjian

Raymond Weldon Ashley
Donna Anne Brevak
Stephen A. Caine
David Otis Cliffe
Nancy Seidman Dempsey
Thomas U. Foster
Carol Ann Koffarnus
Henry Grider Lackey
Adonna Frances Lowe
Marilyn Joyce McCarthy
Douglas Kent Mehlhaff
Herbert Ralph Smith
Carl Douglas Windsor

Theatre
Elizabeth Rose Orlik

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Charles Richard Copley, Jr.
Sara Louise Kirk
Richard David Theis
Margaret Mary Walsh

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Gary Don Trimble

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Juan Ricardo Braun
Chitra
Kathleen Gertrude Conway
Saundra Elaine Crispin
Michael David Peretz
Richard Alan McMaster Scott

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René Emile Pelissier
Alexandra Remelgas

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Jerrold David Beckman
James Leslie Bond
Laurence Martin Gill
Charles Warren Larsen
Allan David Larson
David Rich Sleeper
Craig R. Stilwell
Deborah Ruth Wilkes

Theatre
Harvey Gunard Beach
Michael David Champagne
Michael Mark Vogas
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*Joseph J. Czarnik
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Timothy Jon Drexler
*Robert Shaw Fellows, II
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Corliss Lee Henderson
Gahan James Herman
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Timothy Ovlotis Kinney
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Michael John O'Connor
*Sheila Marie Pauly
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Beverly Jeanne White

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H**Douglas Edward Tyler, Esq.
*Sarah VanAntwerp

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*Kathleen L. Burke
Michael Terry Cody
John Elliott Gilbert
Hope Bunting Major
H**Carol Corriere Nelson
H**Linda B. Owen
Cheryl Ann Parker
Ray James Smith
John David Trafelet
Thomas William VanHowe

Television and Radio
Robert Sean Beehan
Michael Lee Benner
Ann Marie Blaine
Marsha Ann Boozer
David James Brown
*Nerussia Chism
Riste D. Cisler
Diane Faye Croisant
Peter William Croisant
Steven Robert Denton
Jerry Duane Dunklee
Judith Marlan Geib
Philip George Haka
*Merle Willis Heath
Roger David Jozef
Eugene Michael Klemens
Ralph Eric Kyro

Charles Dennis Lindsley
Larry Thomas McLennan
Edward Patrick McNally
Mark Thomas Palmer
*Kenneth H. Parr
Frank John Pluta
Richard Lee Sanford
Randall George Sirko
James G. Squibb, Jr.
Lawrence William Trinka
Martin Douglas VanSickel
Frederick Radford Wenzel

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Kenneth Oren Beckman
*Cherry G. Hamrick
Holly Holdman
Mary Margaret Mathews
**Anita L. Ratner

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*Nancy K. Gosline
*Susan Eileen Nathan
Jane Anne Willmeng

Communication
Christine Reinert Goedert
George Arthur Goodchild
Phillip Floyd Grant
Barbara J. McCurdy
Harold Roger Rice
Brenda L. Webster
Annette Paulette Wisne

Theatre
Robin M. Fraser
*F. Georgann Wing

H Honors College
* With Honor
** With High Honor
COLLEGE OF ARTS AND LETTERS

RICHARD E. SULLIVAN, DEAN

GRADUATED SUMMER TERM 1970

Art Education
Rebecca Gracada Beeson
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Peggy J. King
Marlene Carol Potvin

Art History
Sarah Jo Davis
Ellen Augustus Dietrich

Art Practice
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Maryanne Helen Wier

English
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Sue Ann Brooks
Susan Helen Case
Carol Ann Costello
Cynthia Courts
Michaelene Rzepecki Farrell
Evelyn M. Fieseler
Edward John Hara
Nancy Rathjen Hayles

Maureen Elizabeth Honey
Ellen Louise Jarvis
Angela Marie Leonard
Donald Arthur Maxwell, Jr.
Joanna Louise Mcmaster
Gary Bruce Roelofs
Richard Dennis Walters

History
Dennis William Baird
Margery Nell Beal
Joseph William Bendersky
 Mildred Patterson Brown
John Kesley Ditiberio
Edward John Gaffney, Jr.
Russell Mark Horton
Michael Vincent Namorato
William Frank Neumann
Richard Earl Nye
John Joseph O’Neill
Duane James Ross
Michael Lynn Slootmaker

English-Secondary
Myrna Lynn Ash
Nancy Louise Buffenbarger
Collen Elizabeth Koziolek
Janice L. Sargent
Kay Ellen Simons

School Teaching
Sonia Gill Figler
Ronald Richard LeBlanc
Maria Alexandra Sayers

French
Edith C. Bonawitz
Audrone Marija Virkus

German

Linguistics
Timothy Gerald Williams

Spanish
Juan Jose Gonzalez
Eulalia Dolores Coytizolo

DEGREE OF
MASTER OF
OF ARTS

DEGREE OF
MASTER OF
FINE ARTS

Art Practice
Jean S. Borofsky

Susan Jo Graeber
William Robert Johansen

Applied Music
David F. Holwerda
Paula Jean Huber
David Charles Klinger
Ellen Elizabeth Mosher

Music Education
Richard Winston Blackford

Catherine D. Chernick
James Edward Curnow
Harold Dunbar House
Sister Esther Marie Humbert
Raymond Joseph Lacina
Elizabeth Anne Longo
Michael Shayne Miller
Sister Mary Alice Naour

Ronald James Perrote
Lawrence Bruce Reynnells
Ronald Phillip Saska
Timothy Dean Schrader
Charles Douglas Seybold
Thomas Ernest Tucker
Barry James Wentz
Mary Krueger Wentz
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### Art Education
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- William Goodwin Potter, III
- Janice Lynne Rhodes
- David Lester Rozelle

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- School Teaching
- Paul Albert Chaffee

### French
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- Priscilla Darlene Mefford
- Jean Ellen Purves

### German
- Mary Ellen Brennan
- Priscilla Darlene Mefford
- Jean Ellen Purves

### History
- Noel Virginia Haegen
- Christine Ann Hartmann
- Albert Joseph Hauser
- Eric Philip Hilberg
- Forest H. C. Holman
- Donald Chester Maness

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- MASTER
- OF ARTS

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- Fredrick Jon Wilcome

### Music Education
- Paulette Suzanne Butler
- Janice Lynn Darling

### American Studies
- Randolph Earl Rogers

### Art History
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- Carolyn M. Shanks

### Art Practice
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- *William Lankford Graham, Jr.
- Kathleen Anne Hart
- Baymond James Howard
- David Walter Laetz
- Constance Lee Okwumabua
- Janet Louise Pushby
- Gregory Tyler Smith
- Allen James Woelzlein

### English
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- Marcia Diane Cook
- Catherine Irene Devoe
- Lois Evelyn Dodway
- Patty Jo Dyer
- James Vincent Gibney
- Lorraine Gintner
- Nancy Mary McMillon
- Mary Louise Scala
- James Theodore Schaefer

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- MASTER
- OF MUSIC

### Philosophy
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- Dennis Allen Bird
- Susan Cope Ekstrom
- Joe Keith Slaughter
- Roger Marcel Starr
- Donald William Werner

### Spanish
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### DEGREE OF
- BACHELOR
- OF ARTS

### DEGREE RECOMMENDED
- JOINTLY WITH THE
- COLLEGE OF EDUCATION

### Art Practice
- Barbara Jean Dedo
- *Marilyn Virginia Green
- **Joy Deborah Meighen
- *Ruth Ellen Sheldon
- Kathryn Ann Slaghuis
- Elaine Ann Wilson
- Tina Leah Wolfe

### English
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- Diane Carel
- Corrine Lucille Claus
- Gerald Allen Cross
- Josephine LeBrah Cross
- Barbara Cronk Daggett
- Jeannine Alexis Gagarin
- Mary Louise Jewett

### Humanities
- Helen Sue Brandt
- Lee Bigg Penwell
- Zofia Wiltoria Sylwanowicz
- **Howard Lee Tonkin
- Jane Charlotte Warner

### Humanities Pre-Law
- Thomas Edward Anderson

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*H* Honors College
* With Honor
** With High Honor
§ Posthumously
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<td>Daniel Francis Wozniak, Jr.</td>
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<table>
<thead>
<tr>
<th>Language</th>
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<tbody>
<tr>
<td>French</td>
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<tr>
<td>German</td>
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</table>

### DEGREE OF BACHELOR OF FINE ARTS

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<tr>
<td>James Edward Berry</td>
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<tr>
<td>Robert Arthur Bullock</td>
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<tr>
<td>William Michael Casnovsky</td>
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<tr>
<td>Priscilla Ann Dowler</td>
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<tr>
<td>Jane Ellen Grover</td>
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<tr>
<td>Nancy Suzanne Raisanen</td>
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<td>Nicholas Clare Rhynard</td>
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<tbody>
<tr>
<td>Art Practice</td>
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### DEGREE OF BACHELOR OF MUSIC

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<tr>
<td>Carole Ann Bryant</td>
</tr>
<tr>
<td>Judith Ann Rohr</td>
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<thead>
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<tbody>
<tr>
<td>Music Therapy</td>
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<td>School Music</td>
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### DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Betty Riley Padgett</td>
</tr>
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<table>
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<tbody>
<tr>
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---

**Honors College**

* With Honor
** With High Honor
§ Posthumously
# COLLEGE OF NATURAL SCIENCE

**RICHARD U. BYERRUM, DEAN**

## GRADUATED SUMMER TERM 1970

### DEGREE OF MASTER OF ARTS FOR TEACHERS

<table>
<thead>
<tr>
<th>Biological Sciences</th>
<th>Denton Kormburger</th>
<th>James Victor Brandt</th>
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<tr>
<td>Nora Estelle Graham</td>
<td>Curtis Andrew McKenrick</td>
<td>James E. Dobias</td>
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<td>Warren Neil Hannig</td>
<td>Michael Eugene Quigley</td>
<td>Lynda Joy Jakolat</td>
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<tr>
<td>Vivian H. Redmond</td>
<td>Harry Eugene Rainigh</td>
<td>Donald Eric Lovejoy</td>
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<tr>
<td>General Science</td>
<td>Donald Lee Richmond</td>
<td>Donna May Quidort</td>
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<tr>
<td>James Joseph Cornelio</td>
<td>John Addink</td>
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### DEGREE OF MASTER OF SCIENCE

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<th>Biological Sciences</th>
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<th>Physics</th>
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<td>Sister Maureen Elizabeth Fox</td>
<td>Norman Thomas Baker</td>
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<td>Earl Duane Hatinger</td>
<td>Dang Trung Phuuoc</td>
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<tr>
<td>Marcia Louise Leek</td>
<td>Horst Fritz Brauner</td>
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<tr>
<td>Peter John Ligor</td>
<td>Robert Reid Dearing</td>
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<tr>
<td>Mark Alden Mabry</td>
<td>Robert Gormley</td>
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<td>Henry David Nichamin</td>
<td>Joseph Jao-Tseu Ho</td>
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<td>Harry F. Oyer</td>
<td>Lynne Howard Holley</td>
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<td>Therese Ann Porcella</td>
<td>Joseph R. Pernicone</td>
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<td>Marianne Jacqueline Schabacker</td>
<td>George Z. Sionakides</td>
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<td>Deborah Susan Seltz</td>
<td>Physics</td>
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<td>Frances Ware Smith</td>
<td>Dennis Arnold Baeyens</td>
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<td>Sister Bernadette Catherine Tourtual</td>
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### DEGREE OF MASTER OF SCIENCE

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<tr>
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<th>Geology</th>
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<td>Chiang Shan Tai</td>
<td>Arthur George Aldrich, Jr.</td>
<td>Herman J. Arends</td>
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<td>Chemistry</td>
<td>David James Krause</td>
<td>Dale Russel Doty</td>
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<td>Robert Ernest Botto</td>
<td>Howard Lynn Richter</td>
<td>Bruce Glastad</td>
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<td>Helen Marie Klimisch</td>
<td>Mathematics</td>
<td>Larry Michael Hopkins</td>
</tr>
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<td>Chukwumeka Onwubu</td>
</tr>
<tr>
<td></td>
<td></td>
<td>John Vincent Sweeney</td>
</tr>
<tr>
<td>Microbiology</td>
<td></td>
<td>Sandra Jeanne Ugel</td>
</tr>
<tr>
<td>Melba Jean Beine</td>
<td></td>
<td>Daniel Van Haften</td>
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### CANDIDATES — FALL TERM, 1970

<table>
<thead>
<tr>
<th>Mathematics</th>
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<tr>
<td>Douglas Paul Hattrem</td>
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</table>
DEGREE OF MASTER OF ARTS FOR TEACHERS

Chemistry
Luis Beltrán Mata Guevara

General Science
Charles Henry Lowery
Dale John Rosene

Biological Sciences
Richard Earl Fitzner
Jacqueline Perkins Meyers
Malin Muangchinda
Frank C. Reed

Biophysics
William Lee Weller, Jr.

Botany
Sumalee Pichyangkura
Edward Martin Scharrer
Richard E. Stuckey
Kathleen Anne Wilson

Chemistry
Esther Yu-Hsuan Chao
Warde Thomas Collins

Entomology
David Henry Krause
Dang Trung Phuoc

Geology
Jeffrey John Daniels
Milton A. Gere, Jr.
Imnahal Pothacumury

Mathematics
Nancy Ann Cole
Kenneth Raymond Fruit
Yee Yee Tung

Microbiology
Doris Jean Beck
Donna Young Muirhead
William Lawrence Muth
Sheri Eckerling Simon

DEGREE OF MASTER OF SCIENCE

Chemistry
Luis Beltrán Mata Guevara

Biological Sciences
Richard Earl Fitzner
Jacqueline Perkins Meyers
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Yee Yee Tung

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Donna Young Muirhead
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Sheri Eckerling Simon

DEGREE OF BACHELOR OF ARTS

Biophysics
William Lee Weller, Jr.

Botany
Sumalee Pichyangkura
Edward Martin Scharrer
Richard E. Stuckey
Kathleen Anne Wilson

Chemistry
Esther Yu-Hsuan Chao
Warde Thomas Collins

Mathematics
**Harold Colonna Watkins

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Mathematics
Janet Lynn Haas
**John Edmund Radke

DEGREE OF BACHELOR OF SCIENCE

Biophysics
William Lee Weller, Jr.

Chemistry
Esther Yu-Hsuan Chao
Warde Thomas Collins

Mathematics
**Harold Colonna Watkins

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Mathematics
Janet Lynn Haas
**John Edmund Radke

Biology
Joel Steven Mann
David Joseph Milam
Gayl Lynn Miller
Larry John Nemeth
Michael John Pasichnyk
Roslyn Elizabeth Wofford

Entomology
Ralph James Gorton

Geology
James Louis Eichorst
Peter Charles Leidlein

HONORS COLLEGE

H** Bruce David Ray
Jerry Scopel
H** Stephen Roger Sizemore
Charles C. Warner

DEGREE OF BACHELOR OF ARTS

Biophysics
William Lee Weller, Jr.

Chemistry
Esther Yu-Hsuan Chao
Warde Thomas Collins

Mathematics
**Harold Colonna Watkins

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Larry John Nemeth
Michael John Pasichnyk
Roslyn Elizabeth Wofford

Entomology
Ralph James Gorton

Geology
James Louis Eichorst
Peter Charles Leidlein

HONORS COLLEGE

H** Bruce David Ray
Jerry Scopel
H** Stephen Roger Sizemore
Charles C. Warner

Mathematics
Aloysius Michael Bierut
*Kevin Maurice Hollenbeck
James Thomas Maples
Priscilla Sandra Prophet
H** Robert J. Rietz
John E. Schneider
H** Beth Anne VandeMheen
Roger Carl Wolf

Nursing
Martha Lee Christensen
H** Ann Fenley Minnick
*Vera Jean Veldman
Susan Jo Weil
** Marjorie Todd Weisgerber

Physical Sciences
Lon Alan LeBlanc

Physics
Dennis E. Csondar
Robert Edward Lasocki
H* Ames Duane Ray
Norman Leo St. Pierre

Zoology
Gregory Charles Alfen
Ronald James Barrette
Erik Nelson Breden
Martin Raymond Cirulis
* Aurora Kathy Dunstan
Daniel Ross Farra
Robert George Goodwill
H** Jacqueline Kay Harrison
COLLEGE OF NATURAL SCIENCE

Zoology (Continued)

H**Martin James Francis Hrynick
   Douglas Allen Klee
   William Chester Monschau
   Alan Bruce Morrison

H**Helene Mary Nagy
   Robert Wayne Nicklas

H**Dana Dee Panknin
   David Nelson Pugh
   James McNeily Roy, III
   Yvonne Jenkins Sharpe
   Christy Lynn Wuerfel

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Biological Sciences
*Scott N. Gardner
   Gary William Gray
   Raymond John Gustafson
   Suzanne M. Kirk
   *William Lennon McKeand
   Karen F. Newton

Earth Science
   Catherine Ann Kitcho

General Science
   Bruce Meier Sherbeck

Mathematics
   Scott Alan Billman

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** With High Honor
COLLEGE OF SOCIAL SCIENCE

CLARENCE L. WINDER, DEAN

GRADUATED SUMMER TERM 1970

Anthropology
Edward Oscar Henry
Ruth Caroline Kohl
David Jay Minderhout

Geography
John Anthony Bivins
Freda Lee Brown
Mary F. Cochrane
Tamara Jane Collins
James L. DeForest
Walter Cornelius Farrell, Jr.

Political Science
Martin Donald Levine
Willoughby George Sheane, Jr.

Psychology
Francis Henry Barron, Jr.
Jack E. Dawson
Jane Ruth Dickie
Alan Lee Evans
Jennifer Gray Fidura
Edwin Alan Hartman
Gregory T. Loftus
Elek John Ludvigh, III
Gary H. Mendelsohn
Ronald Lewis Michelini
Riffat Moazam

Jean Apperson Pope
Earl Donald Walker
Elizabeth Ann Walker

Social Science
Linda Elaine Easley

Sociology
Margaret Johnson Adams
Carlin Paige Holden
Margaret M. Plumridge
Michael Harris Schneiderman

DEGREE OF
MASTER
OF ARTS
FOR TEACHERS

DEGREE OF
MASTER
OF ARTS

Geography-Secondary
School Teaching
Michael Anthony Pirrone

Social Science-Secondary
School Teaching
Mary D. Buchko

GERARD FRANCES FIALA
BENJAMIN NKEM OKWUMABA
GEORGE E. PARKER
MICHEL ENE PASTEUR
ROBERT THOMAS PENDLETON
WILLIAM LUCAS SOULTS
RAYMOND JOSEPH ZIGMONT

Criminal Justice
James Ronald Avery
Bakri Mohammed Noor Basha
Dan Graham
Jack Warren Gundrum

Walter Calvin Lunsford
Jimmy Ray Mason
Robert Griggsby May
Forrest Mayo Moss

Robert Williamson Pryor
Clarence Henry Arlan Romig
James L. Shaffer
Scott Marion Tippin
COLLEGE OF SOCIAL SCIENCE

DEGREE OF
MASTER OF
SOCIAL WORK
Sari B. Anderson
Sue Anne Billings
Peggy Mae White

DEGREE OF
MASTER IN URBAN PLANNING
David Alan Casciotti
Renato Nocon Rivera
Walter William Wilkman, Jr.

CANDIDATES — FALL TERM, 1970

Anthropology
Evelyn H. Barchi
Arthur Wesley Helweg

Geography
Abdulaziz A. Al-Sheikh
John Stuart Crossman
Charles Ipcar
John Sebiyam Nabila
Noritaka Nakamura

Political Science
Carola La Rosa Luque
Jose Luis Luque de Lara
Rolf Marshall
James Francis McClure

Psychology
Lawrence Peter Moore
Sellok Ozgediz
Mark Steven Rhodes
Alfred Anthony Santosuosso

Political Science
Martha L. Aldenbrand
Terry Walter Allen
Karen Crover Duffy
Jerry Carl Eyer
Jack Vincent Ferrara
Allen Goodman
Sandra Elaine Graham
Daniel Choda Gutkin
Robert Norman Harris, Jr.
Frank Fred Holly
Javon Albert Jackson
Aaron Karnilow
Barry Marshall Lester
George Marshall Opsincs
Kay Alice Schlappe
Larry Dean Smyth
Susan Marie St. Pierre
Henry Allen Vieth
Alice Madeline Wolfe

Social Science
Marvin Dennis Studinger
James R. Thomas

Sociology
Peter Craig Bishop, S.J.
Malka V. Karpin
Beth Janet Shapiro

Criminology
Martin Prosper Carso, Jr.
Lynnette Cartee
Stephen Michael Gerovsky
Kenneth Edward Christian
Raymond John Gutknecht
William Kieth Hanson

Psychology
William George Hegarty
James Joseph Hennessy
Donald Matthew Holmes
Marson Harry Johnson
Zigmund Stanley Kryszak, Jr.
Alan Lee Lawson
Jo Ellen Mann
Merlyn Douglas Moore
David Michael Oberle
Kenneth Phillip Ott
Bruce Alan Sokolove
Frank Richard Tomascik
Daniel Bruce Trudell

Geography
Sherman Keith Hollander
COLLEGE OF SOCIAL SCIENCE

DEGREE OF
MASTER OF
SOCIAL WORK

DEGREE OF
MASTER
IN URBAN
PLANNING

Anthropology
Edward William Hahn
**Pamela Jean Kepford
Barry Latoszewski
Robert Michael Ross

Political Science
William Ray Bishop
William Price Bryson
James Michael Dorr
Robert Donald Houtman
Robert Holmes Jones
Thomas James Koob
Glenn Earl Marshall
Harry Bonné Meersma
Thomas Robert Mickey
**Lon A. Miller
Susan L. Patnode
Robert Alan Patzer
Richard Henry Ridings
James Neal Schubert
William Robert Storey
Roderick James Swartz
James Dimitri Xenakis

Psychology
Paula Marlene Andrasi
Susan N. Beard
Alan Howard Bokor
Dennis Ivan Borinstein
Dale Alan Camillo
Wesley Alan Guset
Mark William Huntington
Timothy Lirving McDonough
Mary Margaret Quinn
Carol Ann Risley
Mary Warkowski Santerre
Kenneth Stanley Talaska
Barbara Allen Zeh

Social Science
William Michael Atchison
**JoAnn Stephanie Balassone
**Cynthia Ann Bereznoff
George William Bondie, Jr.
Gary Warren Bredahl

H John Edward Brey
Andrea Oldham Byloff
Royal H. Calley, Jr.
**Barbara Jean Carrick
Joseph Catanesi
Rosalie Angesta Clavez
William Paul Courtwright
**Jonathan Ariel Cross
**Anne S. Epstein
**Philip Neal Fulton
**Daniel Francis Gillis
Larry Paul Hammond
Jain Elizabeth Hayes
Thomas Earle Hoener

H Renard James Kolasa
Gary Reid Lazar
Gloria P. Litos

H Robert Edward Logeman
David Lamont Mattson
Janet Mary Matuscak
Ann L. McCaslin
Douglas Charles McNiven
Mark Edward Miller
Rodger Lee Montgomery
Maureen Joyce Murtagh
Stephen Donald Reynolds
Arnold Stuart Schaefer
Robert Joseph Sheiko
Michael David Sickels
John Michael Spigarelli
John S. Stoppyra, Jr.
**Dwayne LeRoy Tarwater
Harry Steven Terrill
Dana Watson Toussay
**Sara Sabina Ulrey
Ernest Cecil Winmerley

Social Work
Sally Aitch
Julie Ann Bacon
Craig Marshall Dean
Alaine Frances Depner
Carolyn JoAnn Edwards
Judy Lynn Essebagger
**Justo Daniel Fajardo
Ronnie Norbert Fox

DEGREE RECOMMENDED
JOINTLY WITH THE
COLLEGE OF EDUCATION

Sociology
Alfred Henry Baume, II
Earl Dowayne Collins, Jr.
Carolyn Jean Gustafson
Patricia Ann Jordan
Leslie Earl Leff
Carol Elizabeth Lindsey
Judith Paule Macdonald
June Cheralyn Manning
Thomas Robert Pattinson
Lamar Nathaniel Richmond, Jr.

Social Science
Gilbert Elliott Apps
Carol Jean Collister
Alexander Dimitrijevic
David Lynn Donaldson
Barbara Jean Dotson
Mary Irene Edens
Anne Teresa Gage
Jerry Van Grant
James Lee Gromak
Michael McClelland Hunter
Robert Lyle Loerke
Janet R. Mackey
Kay Lynne Madsen
Kathleen Lorain Martel
Jane Elizabeth O'Sullivan
Robert Bruce Seal
Carole Lee Tennant
Fred William Youngman
Lawrence Edwin Zielinski

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** With Honor
** With High Honor
COLLEGE OF SOCIAL SCIENCE

DEGREE OF BACHELOR OF SCIENCE

Criminal Justice
Gail Patricia Brown
Curtis Gordon Caterer
William Keith Denslow
Robert Bruce Ebersole
Steven A. Egger
Harold Fredrick Eppley
Michael John Hodge
John Wesley Ingersoll

H Albert Gerald Isaac
Thomas George Johnson
Dale Victor Kaucher
Robert Vanest Kelly
Walter Frederick Kreitlow, II
Barbara Lantto
Donald M. Mapley
Carol Ann Martin
Gregory Dale McPherson

°Ruthann Miller
Brian La Roue Peters
Allen Brodow Presser
Ernest Scott Smith

Ray Clare Valley
Susan Marie Vassar
Dave G. Vequist III
Robert Trent Walsh
Raymond Lester Walters

Joseph Gerald Weinberg
William Leonard Wells
Richard F. Wilsie

Geography
Peter Lee Anderson
William Scott Hanneman
Les Owen Jørgensen
Louis Anthony Kozial
Terrence John Stoeff

Landscape Architecture
Thomas Howard Armstrong
Stephen Richard Cefalo

Victor Richard Neihiebel
John Daniel Ruesink

Psychology
Roy Alfred Bachman
Laura Jeanne Chrest
Robert Alan Cook
Marc Del Mariani
William Patrick Durkin

Sharyn Arlene Erickson
Lawrence Joseph Grayheck
Dale Garand Jamros

Sharon Elizabeth Kahn
Louis Alan Kaufman

Norman Larry Kelley
Gail Christine Kraft
Carol Lynn Larsen
Ann Louise McLean

George Downall Mitchell, Jr.
Randall Arthur Root
Jay G. Schneider
Gregory Karl Schenaut
David A. Shutes

Teresa Marie Smith
S. Lynne Taylor
Linda Ann Truant
Antoinette Louise Tsacoumages
Allan Gary Weiss
William Charles Willing
Steven Neil Young
George Juris Zumburs

Social Science
Paul Abbo
William Carpenter Acheson, Jr.
Craig Maxwell Adams
Ross Pierce Ander
Michael M. Anderson
James Henry Berry
Cecil Francis Boyle, Jr.
Phil B. Brittan

Norman S. Charles
Douglas Albert Downey
Ted Sheldon Freeland
James Michael Gibbons
Robert Brian Gilroy
Gregory Thomas Haley

Terry Lee Harper
Alec Lynn Harshey
Richard W. Henlottor

Linda Diane Henney
Richard H. Huneke
Kenneth Claude Inman

John Russell Jouppi
Frederick Jack Kemp
Thomas Lyle King
William Lawrence Kiser

Thomas Herman Kleene, Jr.
Mary Catherine Kramer

James F. Lear
Stuart Lee Leslie
Robert Joseph Lopker

Terrance Frank Loznaak
Michelle Bennet-Alder

Meanders
Peter B. Merker
Frederick Robert Mulhauser
Jeffrey Glenn Mull
Sue Ellen Naczycz

David Clyde Newland
Peary Anthony Pearson

Roger Warren Peters
John Peter Randolph

John Robert Riedl
George Lannon Ringstad III

Robert Earle Robinson
Ronald F. Romellhardt
Philip M. Rupp
George Edward Schindewolf
Robert Lee Sherburn

Bennett Charles Smith
Michael Sholem Surnow
Randy Lee Tahvonen
Frederick Francis

Timper III
Barrett Carl Vance

James Hedley van Ravensway
Mary Virginia Vincent

Dennis Deen Weddington
Ernest Allen Wenger
Charles Paul Werner
James Calvin Williams
John Richard Winn

John Daniel Wood
Frederick Dean Ziegel

Sociology
John Farrington Dean

Christine Marie Dunnig

Suzzanne Marie Genix
Anne Marie Greenwood
Kent Douglas Harder
Kenneth Charles Marlow
Gregory Gene Peron

Urban Planning
Charles Frederick Pscholka
Anthony Louis Tominac

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Social Science
Robert Greig Anderson
Richard Lyon Basso
Linda Kay BeDell

Thomas Arthur Borin
Frank Ernest Conklin
James Allen Dickinson

James J. Hilgendorf

Raymond Paul Howe
Jane Lesley Johnston

Georganne Lark
David Thomas Lowrey
Mary Theresa McIntyre
LaVern Keith Nygren

William Frank Rollinski
Albert John Schertzinger

Larry Douglas Smith
Rex B. Smith

Michael James Tanguay

H Honors College
* With Honor
** With High Honor
# JUSTIN MORRILL COLLEGE

D. Gordon Rohman, Dean

## CANDIDATES — FALL TERM, 1970

<table>
<thead>
<tr>
<th>Degree of</th>
<th>Candidates</th>
<th>Degree Recommended</th>
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</table>
COLLEGE OF HUMAN MEDICINE

ANDREW D. HUNT, JR., DEAN

GRADUATED SUMMER TERM 1970

DEGREE OF MASTER
OF SCIENCE
Anatomy
Diane Carol Jordan
Pharmacology
Henry Michael Bowman

CANDIDATES — FALL TERM, 1970

DEGREE OF BACHELOR
OF SCIENCE
Medical Technology
H**Martha Christine Garrels
James Dean Sigler

H Honors College
** With High Honor
JAMES MADISON COLLEGE

HJERTBER GARFINKEL, DEAN

CANDIDATES — FALL TERM, 1970

DEGREE OF BACHELOR OF ARTS

*M Meredith Lynn Alexander
Martha Rachel Cohen
Rebecca Jo Grime

Diane Lee Horn
*Peter Christian Mason
**Trudy U. Meltzer
H**Teresa Ann Sullivan

H Honors College
* With Honor
** With High Honor
RESERVE OFFICERS
TRAINING CORPS

CANDIDATES — FALL TERM, 1970

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
Kenneth C. Inman
Louis A. Kaufman
*James R. Krause
Bruce G. Krieger
Lon A. LeBlanc
George D. Mitchell, Jr.

MILITARY SCIENCE
Field Artillery
Stephen Richard Cefalo
Medical Service Corps
Edward Joseph Masters
Signal Corps
Richard Lee Sanford
Infantry
Ernest Scott Smith
Ordnance Corps
Thomas Allen Schildhammer
Transportation Corps
David Eugene Decker

* Distinguished Graduate