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THURSDAY, DECEMBER SEVENTH

NINETEEN HUNDRED AND SIXTY-ONE

The
Fall
Commencement
of
Michigan
State
University

UNIVERSITY AUDITORIUM



EAST LANSING

The Fall Commencement of Michigan State University

ACADEMIC COSTUME

The pageantry and color at commencement exercises reveal a record of academic achievement of the various individuals taking part in the exercises. The following brief description is given that the audience might more readily interpret such achievement.

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

Three types of gowns are indicated by the code. Those worn by the bachelors are made of black worsted material and have long, pointed sleeves. Those worn by masters may be made either of black silk or black wool and 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 made of black silk and 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. Art 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	Maize
Forestry	Russet
COLLEGE OF BUSINESS AND PUBLIC SERVICE	Drab
COLLEGE OF COMMUNICATION ARTS	Royal Blue
COLLEGE OF EDUCATION	Light Blue
COLLEGE OF ENGINEERING	Orange
COLLEGE OF HOME ECONOMICS	Maroon
COLLEGE OF SCIENCE AND ARTS	
Arts	White
Music	Pink
Science	Golden Yellow
COLLEGE OF VETERINARY MEDICINE	Gray

ORDER OF CEREMONIES

PROCESSIONAL

MARCH ET CORTEGE FROM "THE QUEEN OF SHEBA" *Gounod*
MICHIGAN STATE UNIVERSITY BAND — PROFESSOR LEONARD FALCONE, *Director*

AMERICA *Smith*

My Country, 'tis of thee,
Sweet land of liberty,
Of thee I sing!
Land where my fathers died;
Land of the Pilgrim's pride;
From ev'ry mountain side
Let freedom ring!

INVOCATION

THE RT. REV. MSGR. JEROME V. MACEachin.
Pastor, St. Thomas Aquinas Church, East Lansing, Michigan

ADDRESS

GEORGE ROMNEY, LL.D., L.H.D.
President, American Motors Corporation

CONFERRING OF DEGREES

JOHN ALFRED HANNAH, D.AGR., LL.D., L.H.D., D.Sc.
President, Michigan State University

ALMA MATER *Traynor*

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

BENEDICTION

THE RT. REV. MSGR. JEROME V. MACEachin

RECESSIONAL

CORONATION MARCH *Meyerbeer*

The escorts for the procession are members of Mortar Board, an honor society for senior women.
The audience is requested to remain seated while those in the procession are entering and leaving the auditorium.

BOARD OF TRUSTEES

Michigan State University operates under the jurisdiction of a constitutional body known as the Board of Trustees. The six elected members serve six-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 State Superintendent of Public Instruction is an ex-officio member of the Board.

THE HONORABLE CONNOR D. SMITH, <i>Chairman</i>	. . . . .	<i>Pinconning</i>
THE HONORABLE C. ALLEN HARLAN	. . . . .	<i>Detroit</i>
THE HONORABLE WARREN M. HUFF	. . . . .	<i>Plymouth</i>
THE HONORABLE FRANK MERRIMAN	. . . . .	<i>Deckerville</i>
THE HONORABLE DON STEVENS	. . . . .	<i>Okemos</i>
THE HONORABLE JAN B. VANDERPLOEG	. . . . .	<i>North Muskegon</i>

THE HONORABLE LYNN M. BARTLETT, <i>Ex Officio</i>	. . . . .	<i>Lansing</i>
JOHN A. HANNAH, <i>Ex Officio, President</i>	. . . . .	<i>East Lansing</i>
JACK BRESLIN, <i>Secretary</i>	. . . . .	<i>East Lansing</i>
PHILIP J. MAY, <i>Treasurer</i>	. . . . .	<i>East Lansing</i>

MICHIGAN STATE UNIVERSITY

As one of the leading land-grant universities and the first agricultural college in the nation, Michigan State University provides a technical, practical and cultural education for its student body, in addition to extensive research and extension services to the people of Michigan.

Now in its 107th year, Michigan State University has grown from three buildings and six faculty members to one of the ten largest universities in the nation. It has approximately 2,000 staff members engaged in teaching, research and public service, 325 permanent and 136 temporary buildings, and 4,250 acres of land, including 900 acres in the campus area proper.

Founded in 1855 to educate youth for the major occupation of that day—farming—Michigan State University has broadened its offerings as young people, preparing for other vocations, have sought the advantages of university training. Today, Michigan State University has eight colleges—Agriculture, Business and Public Service, Communication Arts, Education, Engineering, Home Economics, Science and Arts, Veterinary Medicine—and the School for Advanced Graduate Studies, and offers approximately 150 different courses of study at the undergraduate and graduate level. This excludes the curriculum of the University College, which has been recognized as one of the most progressive ideas for higher education in the nation today, and the Honors College established in 1957 as a unique program designed for the superior student. All students finishing their freshman year with a “B plus” average, or attaining this average in their sophomore year, have the option of entering the Honors College. Once a student is designated an Honors College scholar, all requirements for his graduation from Michigan State (other than total number of hours) are waived. He is assigned a

special adviser in his field of major interest and together they work out a program appropriate for the individual.

Michigan State University continually strives to expand its service to the people of the state through the Agricultural Experiment Station, the Cooperative Extension Service and the Continuing Education Service. The Agricultural Experiment Station conducts research on campus and at five off-campus substations. Through the Michigan Cooperative Extension Service, more than 333,000 families are reached with technical information on agriculture, homemaking and the 4-H Club program. The field staff, located in every county, extends M.S.U.’s campus into every township in Michigan. During the 1959-60 year, the Continuing Education Service reached more than 100,000 persons in programs conducted both on campus and in local communities.

Today, more than 22,500 students from Michigan and other states and from nations all over the world are attending the University at East Lansing—about 11,000 of whom are housed on the campus proper. With about 85 percent of these students coming from communities in every section of the state, Michigan State University is doing its part to fill the greatly increased demand of the younger generation for higher education.

In the agricultural, business and professional fields, Michigan State University has proved its worth to the people of the State of Michigan, paying dividends many times the appropriation for its maintenance each year by the state and national governments. Noted for its democratic and friendly spirit, the student body harmonizes with the University faculty to make Michigan State University one of the great educational institutions in America.

COLLEGE OF AGRICULTURE

The candidates will be presented by DEAN THOMAS K. COWDEN

HONORS COLLEGE

DEGREE OF BACHELOR OF SCIENCE

*Arthur Delmer Zdzieblowski *Forestry*

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

†Norman Allen Brown *Agricultural Education*

DEGREE OF BACHELOR OF SCIENCE

*John Eldon Alcock	<i>Forestry</i>	Dennis John Drumm	<i>Fisheries and Wildlife</i>
Lawrence William Allaben	<i>Animal Husbandry</i>	Robert Wroten Dubyne	<i>Agricultural Mechanics</i>
Neil Herbert Austing	<i>Packaging</i>	John Gates Eaton	<i>Fisheries and Wildlife</i>
Ronald John Blake	<i>Packaging</i>	Richard Dean Erickson	<i>Agricultural Mechanics</i>
James Bundy Blandford	<i>Ornamental Horticulture</i>	Gary Paul Farley	<i>Fisheries and Wildlife</i>
Edward Stuart Braid	<i>Agricultural Economics</i>	Eugene Carroll Fiegle	<i>Lumber and Building Materials Merchandising</i>
Neil Henry Bridge, Jr.	<i>Lumber and Building Materials Merchandising</i>	*Thomas Andrew Fulk	<i>Forestry</i>
James Arthur Clark	<i>Residential Building</i>	Harold Douglas Goodell	<i>Food Science</i>
Richard Allen Cleaves	<i>Fisheries and Wildlife</i>	Thomas Charles Healey	<i>Packaging</i>
James Martin Cohen	<i>Packaging</i>	Thomas John Heinowski	<i>Lumber and Building Materials Merchandising</i>
*William David Cook	<i>Agricultural Economics</i>	John Joseph Hora	<i>Floriculture</i>
†Neal Phelps Crosson	<i>Packaging</i>	Richard Merl Kerr	<i>Residential Building</i>
William Frederick Dorn, Jr.	<i>Residential Building</i>		

*With Honor

†With High Honor

COLLEGE OF AGRICULTURE

DEGREE OF BACHELOR OF SCIENCE (Continued)

David Burton Kristen	<i>Residential Building</i>	David Lee Roodvorts	<i>Packaging</i>
Frank Edlore LeFave	<i>Residential Building</i>	Le Vinh Qui	<i>Forestry</i>
Frank Donald Lessiter	<i>Dairy Production</i>	David Emil Rutila	<i>Mobile Homes</i>
Michael Collins Lorimer	<i>Lumber and Building Materials Merchandising</i>	Wayne Lyle Sawyer	<i>Packaging</i>
William L. Lowery	<i>Forestry</i>	David Ralph Simpson	<i>Forestry</i>
Philip Stuard McKersie	<i>Packaging</i>	Russell Duane Smith	<i>Forestry</i>
*Lewis Donald Meyer	<i>Dairy Manufacturing</i>	John Prentiss Somer	<i>Fisheries and Wildlife</i>
Thomas Lee Muir, Jr.	<i>Agricultural Mechanics</i>	John George Steinbauer	<i>Packaging</i>
Robert James Munn	<i>Fisheries and Wildlife</i>	William Grant Tomblinson	<i>Packaging</i>
Charles D. O'Hara	<i>Urban Planning</i>	John William Updegraff	<i>Packaging</i>
Jack Calvin Pentecost	<i>Residential Building</i>	Gerald Rye Wallis	<i>Agricultural Economics</i>
*Neil Lynn Powers	<i>Packaging</i>	Charles Andrew Wood	<i>Lumber and Building Materials Merchandising</i>
Wayne Earl Pynnonen	<i>Forestry</i>		

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Charles Enos Burkholder	<i>Agricultural Education</i>	Kenneth William Strong	<i>Agricultural Education</i>
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DEGREE OF MASTER OF SCIENCE

Robert Ray Burr	<i>Agricultural Economics</i>	Robert Omer Herrmann	<i>Agricultural Economics</i>
Enrique Delgado Castillo	<i>Agricultural Economics</i>	Donald L. Jewett	<i>Agricultural Extension</i>
Charles Binkley Forney	<i>Agricultural Economics</i>	Frederick Benjamin Kaehler	<i>Agricultural Extension</i>
Philip Eugene French	<i>Soil Science</i>	Carson Daniel Keyes	<i>Agricultural Economics</i>
John Elwood Gilmore	<i>Horticulture</i>	Andrew Jackson Lambert	<i>Agricultural Engineering</i>

*With Honor

DEGREE OF MASTER OF SCIENCE (Continued)

Iqbal D. Malik	<i>Agricultural Extension</i>	Ronald Arthur Peterson	<i>Poultry Science</i>
Robert S. Manthy	<i>Forestry</i>	Jacob Pos	<i>Agricultural Engineering</i>
John Eugene Matthews	<i>Agricultural Economics</i>	Abdul Malik Safi	<i>Horticulture</i>
James Dobbin McNatt	<i>Forest Products</i>	Ramadhar Sing	<i>Resource Development</i>
Wesley Kenneth Mettert	<i>Soil Science</i>	Zinat Syed	<i>Agricultural Economics</i>
William Eldon Miller	<i>Forestry</i>	James Warren Throop	<i>Agricultural Engineering</i>
Ram Daur Misra	<i>Agricultural Engineering</i>	John Vondruska	<i>Agricultural Economics</i>
Norman Torkel Odden	<i>Agricultural Engineering</i>	Glen David Weber	<i>Resource Development</i>
Ernest Payne	<i>Cooperative Extension Education</i>		

COLLEGE OF ENGINEERING

The candidates will be presented by DEAN JOHN D. RYDER

HONORS COLLEGE

DEGREE OF BACHELOR OF SCIENCE

*William Vern Brewer *Mechanical Engineering* *Douglas Alfred Wagner *Mechanical Engineering*

DEGREE OF BACHELOR OF SCIENCE

Alfreda Abell	<i>Agricultural Engineering</i>	*Richard Ervin Hills	<i>Civil Engineering</i>
*Vilis Miervaldis Barevics	<i>Civil Engineering</i>	Albert Evard Jagger	<i>Mechanical Engineering</i>
David John Bennett	<i>Chemical Engineering</i>	Calvin Gene Lamoreaux	<i>Electrical Engineering</i>
Donald Ray Danklefsen	<i>Electrical Engineering</i>	Lynn Howard Peltier	<i>Electrical Engineering</i>
John Del Davis	<i>Civil Engineering</i>	Sterling Emmet Powell	<i>Agricultural Engineering</i>
John Norman Demarais	<i>Electrical Engineering</i>	Monroe Charles Pruetz	<i>Agricultural Engineering</i>
Floyd Orville Earl, Jr.	<i>Electrical Engineering</i>	Richard Reed Sheppard	<i>Agricultural Engineering</i>
Jerry Alan Gilbert	<i>Civil Engineering</i>	David Cornelius Spangenberg	<i>Civil Engineering</i>
John Franklin Gilg	<i>Civil Engineering</i>	Carl Joseph Weber	<i>Civil Engineering</i>
Lewis Richard Griffiths	<i>Metallurgical Engineering</i>	Joel Robert Wineman	<i>Electrical Engineering</i>

DEGREE OF BACHELOR OF SCIENCE AND BACHELOR OF ARTS

DEGREE GRANTED JOINTLY WITH COLLEGE OF SCIENCE AND ARTS

Harold Vernon Jacobs
Engineering for International Service

DEGREE OF MASTER OF SCIENCE

Fredric Charles Aldrich	<i>Applied Mechanics</i>	Hadley W. Davis	<i>Mechanical Engineering</i>
Joab Jacob Blech	<i>Mechanical Engineering</i>	Joseph David Eisenberg	<i>Civil Engineering</i>

*With Honor

DEGREE OF MASTER OF SCIENCE (Continued)

Albert A. Kalis	<i>Electrical Engineering</i>
Carl Henry Konkle	<i>Chemical Engineering</i>
Abraham Kwan-Yuen Loh	<i>Civil Engineering</i>
Virgilio Gamboa Mendoza	<i>Mechanical Engineering</i>
Donald Paul Ryan	<i>Civil Engineering</i>
Bhupendra Umedchand Shah	<i>Mechanical Engineering</i>

Jasvantrai Chunilal Shah	<i>Mechanical Engineering</i>
Piyush Chandra Sharma	<i>Civil Engineering</i>
William Frederick Shutler	<i>Electrical Engineering</i>
Alfred Lee Snow	<i>Applied Mechanics</i>
Man Hyong Yoo	<i>Applied Mechanics</i>

COLLEGE OF HOME ECONOMICS

The candidates will be presented by DEAN THELMA E. PORTER

DEGREE OF BACHELOR OF SCIENCE

Martha Ruth Burns	<i>Foods</i>	*Winifred Ann Lowsma	<i>Institutional Administration</i>
Linda Marie Kauppinen	<i>General Home Economics</i>	Grace E. Lyons	<i>General Home Economics</i>
Ruth Ellen Kiefer	<i>Foods</i>		

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Sue Dinwiddie	<i>General Clothing and Textiles</i>	Judy Ann Swartzbaugh	<i>Child Development and Teaching</i>
Doris Elaine Dobbs	<i>Home Economics Teaching</i>	*Dorothy Puotinen Tobiason	<i>Child Development and Teaching</i>
Susan Jane Doyle	<i>Home Economics Teaching</i>	Betty Estella Treen	<i>Home Economics Teaching</i>
Carolyn Alice Golchert	<i>Child Development and Teaching</i>	*Karen Elizabeth Vogt	<i>Child Development and Teaching</i>
†Carole Sachiko Nagata	<i>Child Development and Teaching</i>		
Audrey Beverly Reist	<i>Home Economics Teaching</i>		

DEGREE OF MASTER OF SCIENCE

Mary Louise Fisk	<i>Institutional Administration</i>	Bettie Suzanne Torrey	<i>Child Development</i>
Jean Ann McFadden	<i>Institutional Administration</i>	Letitia W. Warnock	<i>Institutional Administration</i>
Adelaide Rose Tirrell	<i>General Home Economics</i>		

*With Honor

†With High Honor

COLLEGE OF VETERINARY MEDICINE

The candidates will be presented by DEAN WILLIS W. ARMISTEAD

DEGREE OF BACHELOR OF SCIENCE

John Alan Crouter

Veterinary Medicine

DEGREE OF MASTER OF SCIENCE

Janet Louise Gehres

Anatomy

Willard Glenn Walter

Microbiology and Public Health

Lloyd Samuel Goyings

Veterinary Pathology

Robert James Niewenhuis

Anatomy

COLLEGE OF SCIENCE AND ARTS

The candidates will be presented by DEAN LLOYD C. FERGUSON

HONORS COLLEGE

DEGREE OF BACHELOR OF ARTS

*George Harry Demetrakopoulos	Humanities	*Gael Sisson	Social Science Divisional
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DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

†Mary Charlotte Decker	French	†Dolly McCarty Soddy	History
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†Janet Louise Rockafellar	German
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DEGREE OF BACHELOR OF SCIENCE

†Helen Louise Perrott	Nursing	†Carol May Smith	Nursing
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DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

†Mary Ellen Jones	Mathematics
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DEGREE OF BACHELOR OF ARTS

Bernard Ronceford Basham		Norman Robert Cohn	History
	Social Science Divisional		
Jean Frances Bastable	Social Science Divisional	*Christopher James Cummins	Social Science Divisional
Richard Emory Beyer	Social Science Divisional	Marla Marie DeGeer	History
*Martha Kay Billings	Music Therapy	Thomas Lee DeGoff	Art Practice
James Lyon Bonner	Social Science Divisional	James Alan Draves	Psychology
Kenneth Andrew Bott	Psychology	Mark Gelder Drucker	Social Science Divisional
David Francis Carpenter	History	Charles Franklin Engel	Philosophy
Richard William Champion		Edith Joyce Erno	English
	Social Science Divisional		
*John Joseph Clancy	Psychology	*Betty Grace Fahselt	Art
Ronald Lee Classon	History	Larry Joe Fayton	Social Science Divisional
James Lawrence Cohen	History	James Warren Frink	Social Science Divisional

*With Honor

†With High Honor

DEGREE OF BACHELOR OF ARTS (Continued)

Darrell Crawford Fuller	<i>Art Practice</i>	Jon Allen Nord	<i>Psychology</i>
Jack Douglas Gilbert	<i>Psychology</i>	Frederic Douglas Polkinghorn	<i>Psychology</i>
Frank Kanter Girardin	<i>Social Science Divisional</i>	John Bruce Raviolo	<i>Psychology</i>
Alison Hadley	<i>Social Science Divisional</i>	Helen Ray	<i>Art Practice</i>
Clarence George Hanley	<i>History</i>	Norman Emil Richter	<i>English</i>
Paul Brian Hogan	<i>History</i>	Barbara Marie Ruppert	<i>Social Science Divisional</i>
Jack Olin Horsley, Jr.	<i>History</i>	*Charles Richard Schuller	<i>Social Science Divisional</i>
Henry William Hunter	<i>Psychology</i>	Carol Lorraine Schutz	<i>Social Science Divisional</i>
John E. Kenealy	<i>History</i>	Terry Dennis Stuck	<i>Psychology</i>
Sanaullah Kirmani	<i>Philosophy</i>	George Edgar Svede	<i>Art Practice</i>
David Ralph Koons	<i>Social Science Divisional</i>	Thomas Andrew Taliaferro, Jr.	<i>History</i>
Gerald Owen Koop	<i>Social Science Divisional</i>	Edward D. Tillitson	<i>Humanities</i>
James Austin McCoy, Jr.	<i>Psychology</i>	Mary Catherine Vielmetti	<i>Art Practice</i>
Ervin Glen McLaughlan	<i>Art Practice</i>	Martin Lawrence Weiss	<i>Psychology</i>
John Leonard Meltzer	<i>Social Science Divisional</i>	Terry Clyde Whited	<i>Social Science Divisional</i>
Mary Ann Millon	<i>Social Science Divisional</i>	David Thomas Williams	<i>Psychology</i>
John Donald Miskew	<i>History</i>	Ralph Davis Wolfe	<i>Psychology</i>
Ned Bowman Newlin	<i>Social Science Divisional</i>	Francis Jude Wyborski	<i>Music Therapy</i>
Larry R. Nicodemo	<i>Philosophy</i>	†Franklyn Wedgwood York	<i>Social Science Divisional</i>

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Judith Ann Baker	<i>English</i>	William Dean Burgess	<i>History</i>
Dorothy Janet Barbish	<i>Art Education</i>	Gayle Ann Burkhart	<i>History</i>
Nancy Kay Boudrie	<i>Spanish</i>	Gary Donald Caltrider	<i>Social Science Divisional</i>
Elizabeth Ann Broucek	<i>Art Education</i>	Julia Faye Carraway	<i>English</i>

*With Honor

†With High Honor

COLLEGE OF SCIENCE AND ARTS

DEGREE OF BACHELOR OF ARTS (Continued)

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

John Philip Connelly	<i>History</i>	Phyllis Diana Plutzer	<i>Social Science Divisional</i>
Richard Eugene Crandell	<i>Art Education</i>	*Doris Ann Rantucci	<i>Music Therapy</i>
Allan Roy Dalzell	<i>History</i>	Peter Edward Robyns	<i>History</i>
†Robert Martin Farrington	<i>Spanish</i>	Merle Isabell Silver	<i>Social Science Divisional</i>
Janet Charylene Fauble	<i>English</i>	Patrick Byrnes Smith	<i>History</i>
Terry Lee Hallead	<i>History</i>	Peggy Irene Snyder	<i>French</i>
Jeanette Marie Hatley	<i>History</i>	Larry John Soronen	<i>Social Science Divisional</i>
Patrick Dennis Holland	<i>Social Science Divisional</i>	Ellen Joyce Stevenson	<i>Art Education</i>
Morris Henry Hunt	<i>Mathematics</i>	Frank Strahota	<i>History</i>
*Susan Kay Johnson	<i>Art Education</i>	Diane Sudora	<i>Mathematics</i>
Jacqueline Jean Kampfert	<i>English</i>	Beverly Arlin Taylor	<i>Art Education</i>
A. Vonalea Kitzman	<i>Social Science Divisional</i>	Leslie Howard Taylor	<i>History</i>
Magdalen Ann Loso	<i>Social Science Divisional</i>	Elizabeth Mellin Tillitson	<i>History</i>
Elizabeth Lucille Merriam	<i>Art Education</i>	Mabel Loreen Williams	<i>Social Science Divisional</i>
Barbara Rae Miller	<i>English</i>	Maxine R. Wolf	<i>English</i>
Kathleen Mary Ann Minor	<i>French</i>	†Barbara Rae Yanko	<i>French</i>
Sarah Alice Peck	<i>English</i>	Norman Lester Zona	<i>Mathematics</i>

DEGREE OF BACHELOR OF FINE ARTS

Margaret Anne Sheldon	<i>Art</i>
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*With Honor

†With High Honor

DEGREE OF BACHELOR OF MUSIC

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

*David Otis Cliffe	<i>School Music</i>	Janet Marie Lickfelt	<i>School Music</i>
Carl Joseph Eberhard	<i>School Music</i>	John Harding Parks	<i>School Music</i>
Bette Jean Ellwood	<i>School Music</i>	Lawrence Patrick Selby	<i>School Music</i>
*Jean Hittel Grof	<i>School Music</i>		

DEGREE OF BACHELOR OF SCIENCE

Robert Frederick Alati	<i>Mathematics</i>	Keith Gibson Franz	<i>Zoology</i>
John Alvin Anderla	<i>Statistics</i>	William Robert Gregg	<i>Mathematics</i>
Patricia Elaine Anderson	<i>Mathematics</i>	Anne Margaret Harrison	<i>Mathematical and Physical Science Divisional</i>
Douglas Stanton Bisbee	<i>Biological Science Divisional</i>	Richard Heath Holmes	<i>Mathematics</i>
John Richard Black	<i>Mathematical and Physical Science Divisional</i>	Ronald Eugene Holtz	<i>Mathematical and Physical Science Divisional</i>
James Dennis Butcher	<i>Mathematical and Physical Science Divisional</i>	K. Lee Howland	<i>Zoology</i>
Merrilyn Ann Childs	<i>Nursing</i>	Neil Arthur Kaltman	<i>Biological Science Divisional</i>
Clyde Morgan Claycomb	<i>Mathematical and Physical Science Divisional</i>	Richard Dale Keefer	<i>Physics</i>
David Lee Daniels	<i>Mathematical and Physical Science Divisional</i>	Russell Frederick LaBeau, Jr.	<i>Zoology</i>
Francis Delas Darling	<i>Zoology</i>	*Robert Edward Lewis	<i>Mathematics</i>
Claire Ann Day	<i>Mathematics</i>	Gerald Wayne Martin	<i>Zoology</i>
Margaret Ann Dundon	<i>Nursing</i>	Doris Faye Montgomery	<i>Nursing</i>
Thomas Karl Erber	<i>Statistics</i>	David James Neebes	<i>Mathematical and Physical Science Divisional</i>
Marilyn Ann Fellhauer	<i>Nursing</i>	Donald Joseph NeSmith	<i>Zoology</i>
		Richard Francis Rohlman	<i>Physics</i>

*With Honor

COLLEGE OF SCIENCE AND ARTS

DEGREE OF BACHELOR OF SCIENCE (Continued)

Edward John Ryan, Jr.	<i>Mathematics</i>	DuWayne Harry Watkins	<i>Mathematics</i>
Roger Kipp Waid	<i>Mathematical and Physical Science Divisional</i>	†Ievina Ziedins	<i>Nursing</i>

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Larry Robert Booth	<i>General Science</i>	Robert Frank Houghton	<i>Mathematics</i>
*Loralynne Burgett	<i>Mathematical and Physical Science Divisional</i>	*Donna Ruth Lafler	<i>Biological Science Divisional</i>
†Wayne Sidney Carpenter	<i>Mathematics</i>	Thomas Omar Maurer	<i>Mathematics</i>
Alton VanPatten Ferry	<i>Biological Science Divisional</i>	†James Albert VanNocker	<i>Mathematical and Physical Science Divisional</i>
Patricia Ann German	<i>Mathematics</i>	Loren Dale Wright	<i>Mathematics</i>
		*Richard Miller Zahn	<i>Mathematics</i>

DEGREE OF MASTER OF ARTS

Mary Elizabeth Bround	<i>English</i>	Theodore Demetrios Kazanis	<i>English</i>
Alicia May Brown Bendana	<i>Psychology</i>	William Barr Kemp	<i>Geography</i>
Albert Maurice Brunelle III	<i>Accounting</i>	Jerome Kossoff	<i>Psychology</i>
Marsha Harriet Eisen	<i>English</i>	David Wallace Macky	<i>Statistics</i>
Frieda Lillian Foote	<i>Sociology</i>	Richard Edward Manley	<i>Psychology</i>
Gerald Grubb Gard	<i>Art</i>	John Stephen Matthiasson	<i>Sociology</i>
Gary Theodore Gildner	<i>Comparative Literature</i>	John Wilson Palmer	<i>History</i>
Richard Foster Haines	<i>Psychology</i>	Roger Neal Parks	<i>History</i>
Werner Wilhelm Heine	<i>German</i>	Arthur Ta-Shiang Pu	<i>Mathematics</i>
Davidson Lincoln Heyburn	<i>Spanish</i>	Rodger Reid Rice	<i>Sociology</i>
Arthur Hunter Hills	<i>Art</i>	Jon Hill Rieger	<i>Psychology</i>
Benjamin Joseph Hodgkins	<i>Sociology</i>	Bruce Anthony Riley	<i>Art</i>

*With Honor

†With High Honor

DEGREE OF MASTER OF ARTS (Continued)

Francis John Rutkowski	<i>History</i>	Leif Gerner Terdal	<i>Psychology</i>
Charles Robert Scott	<i>Psychology</i>	Ted James Tetzlaff	<i>Psychology</i>
David S. Silkiner	<i>Psychology</i>	Wayne E. Tollefson	<i>Art</i>
Heraldo Pessoa Soutomaior	<i>Sociology</i>	Ronald Gary Weisman	<i>Psychology</i>
Alan Peter Spivak	<i>Psychology</i>	Harlan William Wellnitz	<i>History</i>
Ardith Marilyn Tait	<i>English</i>	Barbara Westinghouse	<i>Geography</i>
Joseph Alex Tanyi	<i>Geography</i>		

DEGREE OF MASTER OF ARTS FOR TEACHERS

Robert William Bucklin	<i>Zoology</i>	William Rhanz Isenogle	<i>General Science</i>
Thomas James Drummond	<i>Chemistry</i>	John A. Reidy	<i>English</i>

DEGREE OF MASTER OF MUSIC

Charles Fred Bunch, Jr.	<i>Music Education</i>	Betty Ann Pringle	<i>Applied Music</i>
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DEGREE OF MASTER OF SCIENCE

Edward Seth Kwasi Ansah	<i>Mathematics</i>	Basil Constantine Halkides	<i>Physics</i>
James Frederick Arnold	<i>Zoology</i>	Thomas Franklin Hopkins	<i>Physiology</i>
Warren Rasmus Bredahl		Gary Alan Houghtby	
	<i>Botany and Plant Pathology</i>		<i>Microbiology and Public Health</i>
		William Stephen Hudec	<i>Physics</i>
Richard Allen Dixon	<i>Geology</i>	Rusool Javahery	<i>Physics</i>

COLLEGE OF SCIENCE AND ARTS

DEGREE OF MASTER OF SCIENCE (Continued)

Gerald Charles Kettunen	Zoology	Gholam Sorrwar	Geology
John Henry Massengill	Zoology	William E. Steinkraus	Geology
Thomas Francis Mitchell	Zoology	Venkata Madhararad Tummala	Statistics
Robert Larry Shone	Chemistry	Jack Edward Weiler	Chemistry
Walter Alan Sisler	Microbiology and Public Health	David Lloyd Word	Statistics

COLLEGE OF BUSINESS AND PUBLIC SERVICE

The candidates will be presented by DEAN ALFRED L. SEELYE

HONORS COLLEGE

DEGREE OF BACHELOR OF ARTS

†Leo Franics Rademacher *Accounting*

DEGREE OF BACHELOR OF SCIENCE

†Raymond Milton Runnel *Law Enforcement*

DEGREE OF BACHELOR OF ARTS

Reid Lincoln Ashton
Hotel, Motel and Club Management

Loyd C. Austin *Production Administration*

Gerald Howard Babcock
General Business Administration

John Stanley Beall *Personnel Administration*

John Henry Belleghem
Hotel, Motel and Club Management

Gerald Raymond Bellrichard *Accounting*

James Sharer Bentley
Hotel, Motel and Club Management

James O. Bibbler *Accounting*

Richard William Boss *Accounting*

Brent Arthur Bremer *Economics*

Edward Lee Briscoe *Economics*

Donald William Brown
Hotel, Motel and Club Management

Robert Michael Brown
General Business Administration

Joseph Matthew Bryan
General Business Administration

William Everett Burch
General Business Administration

Thomas Allan Burgoon *Economics*

James Douglas Burnham *Personnel Administration*

Allan Russell Cairns *Economics*

Gordon Douglass Cameron *General Marketing*

Warren Joseph Carr *General Marketing*

David Nicholas Chapman
Production Administration

John Robert Ciesco
General Business Administration

Anthony Lafayette Clark *Economics*

Janice Marilyn Cohn *Political Science*

†With High Honor

COLLEGE OF BUSINESS AND PUBLIC SERVICE

DEGREE OF BACHELOR OF ARTS (Continued)

James Brainard Crawford III
General Business Administration

David Eldon Cristman *Production Administration*

Michael William Cygan *Accounting*

Lawrence Lee DeMorrow, Jr.
Hotel, Motel and Club Management

*David Alan Dougherty
Hotel, Motel and Club Management

Michael Paul Doyle *Restaurant Management*

Stephen Charles Duncan *Financial Administration*

†Eriks Eglitis *General Business Administration*

Walter Joseph Engel *Personnel Administration*

Robert Nelson Feldman *Political Science*

James Neville Firestone, Jr.
Personnel Administration

Judith LaVon German
Hotel, Motel and Club Management

Gregory Gowan Gillmor *Economics*

Donald Roy Halling *Economics*

Marlaine Elisabeth Hanrath *Social Work*

David Edwin Harmon
General Business Administration

Jack Dean Harris *Political Science*

James Stewart Hedley *Accounting*

Thomas William Henson *Accounting*

Craig Hendricks Holmes
Production Administration

Walter Weinhausen John
General Business Administration

Edward Eugene Johnson *Economics*

Robert Arthur Josephson
Hotel, Motel and Club Management

Daniel E. Kampfschulte
Institutional and Hospital Management

James R. Keaton *Economics*

Michael Vasil Kelingos *Restaurant Management*

Norma Irene Keppel *Social Work*

*Edwin Casimir Koldras *Economics*

Emerson Alan Ladd *Accounting*

Dennis Alan LaVercombe *General Marketing*

Paul Edgar Lindow *Accounting*

John Michael Lipnitz *Political Science*

James Edward Marquardt *General Marketing*

Ronald Joseph Maxheimer *Accounting*

*Omar Mazzei *Economics*

*John Palmer McCaskill *Accounting*

Denise Elizabeth McLaurine *Social Work*

Edward Frederick Meyer
Hotel, Motel and Club Management

*Lawrence G. Meyer *Economics*

Richard Roy Milligan *Production Administration*

Linden Frederick Mills
Hotel, Motel and Club Management

*With Honor

†With High Honor

COLLEGE OF BUSINESS AND PUBLIC SERVICE

DEGREE OF BACHELOR OF ARTS (Continued)

Richard Lee Milock	<i>Accounting</i>
Timothy George Moore	<i>General Marketing</i>
Theodore Carl Mortenson	<i>Accounting</i>
Donald Leonard Myers	<i>Personnel Administration</i>
*Charles Clement Ollila	<i>Food Marketing Management</i>
Hans Peter Olsen	<i>General Business Administration</i>
Steve Peter Panos	<i>General Business Administration</i>
*Richard Frederick Pershinske	<i>Accounting</i>
Clarence Harmon Peters	<i>Hotel, Motel and Club Management</i>
Victor Rimvyoas Petrauskas	<i>General Business Administration</i>
Richard Douglas Petty	<i>General Business Administration</i>
Arthur Harry Pyrros	<i>Economics</i>
Terryl Clive Rockwell	<i>Production Administration</i>
Allen Neal Schmelter	<i>Accounting</i>
Myron William Schroeder	<i>Purchasing Administration</i>
Lee Dwight Searcy	<i>General Business Administration</i>
Harold Dean Shorr	<i>General Business Administration</i>

Bert Junior Smith	<i>Accounting</i>
Carl Philip Stellin	<i>Economics</i>
Jack Nelson Stenberg, Jr.	<i>General Business Administration</i>
Gerald Kenneth Swain	<i>General Marketing</i>
Abraham Tomio Takahashi	<i>Institutional and Hospital Management</i>
*George William Tatu	<i>Accounting</i>
Tyler Townley	<i>Restaurant Management</i>
John L. Trumble	<i>Economics</i>
Richard Lee Vandebark	<i>Accounting</i>
Robert Elliot Van Peenan	<i>General Business Administration</i>
William Craig Van Sciever	<i>General Business Administration</i>
Fredric Kramer Waalkes	<i>Institutional and Hospital Management</i>
Kenneth Elmer Walsh	<i>Food Distribution Administration</i>
Everett Lee Williams	<i>General Business Administration</i>
Ronald Frederic Willis	<i>Accounting</i>
Gerald Carl Winkler	<i>General Business Administration</i>

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Dorothy Marie Schwab	<i>Business Education</i>	Ruth Ann Wheatley	<i>Business Education</i>
Beatrice Genevieve Smith	<i>Business Education</i>		

*With Honor

COLLEGE OF BUSINESS AND PUBLIC SERVICE

DEGREE OF BACHELOR OF SCIENCE

Robert Joseph Borghi	<i>Law Enforcement</i>	Edward Thomas Meehan	<i>Urban Planning</i>
Robert Earl Brumback	<i>The Prevention and Control of Delinquency and Crime</i>	Donald Everett Merrill	<i>Law Enforcement</i>
Thomas David Carey	<i>Urban Planning</i>	Malcolm James Palmer	<i>Law Enforcement</i>
Anthony Bernard Char	<i>Urban Planning</i>	*Glenn Elden Persons	<i>Law Enforcement</i>
Michael Leon Cluff	<i>Law Enforcement</i>	James Lawrence Roach	<i>Urban Planning</i>
†Roger Dwight Counts	<i>Law Enforcement</i>	Harvey William Ross	<i>Law Enforcement</i>
Robert Sergeant Dunsmore	<i>Correctional Administration</i>	Daniel Lee Roy	<i>Industrial Security Administration</i>
Gerald Thomas Geouque	<i>Law Enforcement</i>	Robert Richard Ruszala	<i>Law Enforcement</i>
Ronald J. Grudzinski	<i>Urban Planning</i>	*Danny Clifford Schafer	<i>Law Enforcement</i>
Lawrence Rex Hill	<i>Landscape Architecture</i>	Richard Emerson Schlosser	<i>Industrial Security Administration</i>
Frederic Carlton Hobus	<i>Industrial Security Administration</i>	Gerald Mark Schroeder	<i>Industrial Security Administration</i>
Peter Hotis	<i>Industrial Security Administration</i>	Marshall Douglas Slagle	<i>Urban Planning</i>
John Joe Howlett	<i>Law Enforcement</i>	Lawrence Joseph Slamons, Jr.	<i>Law Enforcement</i>
Frederick George Ihrig	<i>Industrial Security Administration</i>	Gerald Lee Smith	<i>Urban Planning</i>
Gilbert Harold Kleinknecht	<i>Law Enforcement</i>	Richard Glen Smith	<i>Law Enforcement</i>
†Larry Ross Lang	<i>Accounting</i>	James Maurice Stinson	<i>Law Enforcement</i>
Walter Robert McAdow	<i>Industrial Security Administration</i>	Mary Lou True	<i>Urban Planning</i>
		Robert William Van Hengel	<i>Law Enforcement</i>
		Joseph Harold Watkins	<i>Landscape Architecture</i>

DEGREE OF MASTER OF ARTS

Braulio Jesus Adarmes Perez	<i>Economics</i>	John Paul Casbergue	<i>Restaurant Management</i>
Faisal Micheal Arabo	<i>Business Administration</i>	William Frederick Cottrell	<i>Political Science</i>

*With Honor

†With High Honor

DEGREE OF MASTER OF ARTS (Continued)

Gaylord Emerson Gardner	<i>Economics</i>
James Pervin Gork	<i>General Business Administration</i>
Kiyoshi Hara	<i>Economics</i>
Marjory DeLila Hath	<i>Business Education</i>
John Washburn Kinsey	<i>General Business Administration</i>
Jorn Mike Kreke	<i>Economics</i>
William Edward Metsker	<i>General Business Administration</i>
Suzanne Murray	<i>Political Science</i>

Thomas Wood Robinson	<i>General Business Administration</i>
Carl George Sander	<i>Food Distribution</i>
Paul Marvin Sengpiehl	<i>Political Science</i>
James Leon Shrier	<i>General Business Administration</i>
Joseph Robert Stratman	<i>General Business Administration</i>
David Francis Wallace	<i>General Business Administration</i>
John Joseph Weger	<i>General Business Administration</i>

DEGREE OF MASTER OF BUSINESS ADMINISTRATION

John Quincy Adamson	<i>Accounting</i>
Martin Joseph Allen, Jr.	<i>Marketing</i>
S. John Archer	<i>Production Management</i>
Walter Ronald Barnes	<i>Business Administration</i>
Robert James Bishop	<i>Accounting</i>
Gary Barton Bylsma	<i>General Business Administration</i>
Richard Hays Byrd	<i>Marketing</i>
Reginald Cote	<i>Accounting</i>
Wayne Cameron Currie	<i>Marketing</i>
Robert Andrew Emerson	<i>Financial Administration</i>
John Dennis Field	<i>Marketing</i>
Robert Eric Hanson	<i>Food Distribution</i>
William Stewart Jacobson	<i>Marketing</i>
Joseph Carl Kopf, Jr.	<i>Marketing</i>

Franco Lucca	<i>Marketing</i>
Gary Andre Marple	<i>Marketing</i>
Hirofumi Matsusaki	<i>Marketing</i>
Charles Joseph Meagher, Jr.	<i>General Business Administration</i>
Daniel Lewis Popoff	<i>Accounting</i>
Cornelius Henry Quist	<i>Production Management</i>
Gary Junior Raterink	<i>Accounting</i>
James Robert Sullivan	<i>Marketing</i>
Alfred Arden Tanck	<i>Marketing</i>
John Anthony Vanna	<i>Production Administration</i>
Antonio Carlos Vitiello	<i>Financial Administration</i>
James Edward Wilkes	<i>Personnel Administration</i>
Robert Michael Wood	<i>Accounting</i>

COLLEGE OF BUSINESS AND PUBLIC SERVICE

DEGREE OF MASTER OF SCIENCE

Somboon Limsong

Police Administration

DEGREE OF MASTER OF SOCIAL WORK

Menona Evelyn Logan

Gerald Joseph Nowakowski

COLLEGE OF EDUCATION

The candidates will be presented by DEAN CLIFFORD E. ERICKSON

HONORS COLLEGE

DEGREE OF BACHELOR OF ARTS—*Elementary Education*

†Janice Elaine Riggs

†Joy Rita Sherman

DEGREE OF BACHELOR OF ARTS—*Elementary Education*

Barbara Ann Benedix

Darlene Marie Mieden

Georgia Wilma Bergman

Susan Ann Mitchell

Virginia Ann Christman

Lue Allie Mixon

Sharon Inez Ebersole

Gloria Murphy

Judith Diane Fedorinchik

Sue Ellen Perranoski

Patricia Margaret Freeman

*Frances Marie Pierson

Sara Gleason Harness

Kathryn Lucille Fox Porter

Alda Louise Henderson

Diane Patricia Reed

Ted Eugene Hull

Margo Miller Reed

Janet Kay Hussey

Vivian E. Rittenhouse

Judy Lynne Ingraham

Susan Kay Rosenbaum

Cora Lee Jaenichen

Fred Stevens Rozell

June Lapinski

*Goldia Pauline Schiefer

*Janet Elizabeth Littell

Barbara Ann Sly

Sandra Ellen Mackle

Jill Alice Stiltner

Jeanette Elizabeth Mange

Gene Swan Ulen

Carolyn Janet Marmion

Robert Carrol Walker

Mary Hassler McConnell

Donald Duprey Watson

Nancy Diane McKenzie

*With Honor

†With High Honor

COLLEGE OF EDUCATION

DEGREE OF BACHELOR OF SCIENCE

Kenneth Wayne Avery	<i>Physical Education</i>	Marjorie Elaine Miller	<i>Physical Education</i>
Mable Ann Boughner	<i>Physical Education</i>	Susan Jane Montgomery	<i>Physical Education</i>
Dennis Brian Brooks	<i>Industrial Arts</i>	Thomas Robert Mustonen	<i>Physical Education</i>
Bernard Henry Burke	<i>Industrial Arts</i>	Arthur Eugene Parsons	<i>Industrial Arts</i>
†Mary Jean Campbell	<i>Physical Education</i>	Robert Herman Ross	<i>Physical Education</i>
Brenda Cooney	<i>Physical Education</i>	Roseanne Jean Sabatine	<i>Physical Education</i>
Larry Merritt Dorow	<i>Physical Education</i>	William Harold Schudlick	<i>Physical Education</i>
Harriett Ellen Graham	<i>Physical Education</i>	Mary Jeanette Scott	<i>Physical Education</i>
Robert Irwin Guenther	<i>Physical Education</i>	Mickey Gordon Sinks	<i>Physical Education</i>
Judith Ann Hamilton	<i>Physical Education</i>	Franklin Morrell Smith	<i>Physical Education</i>
Helen Joye Hughes	<i>Physical Education</i>	Angeline Margaret Spieles	<i>Physical Education</i>
Edwin Bruce Johnston	<i>Physical Education and Health Education</i>	Steve Edward Varriale	<i>Physical Education</i>
Georgt Joseph Kapler	<i>Industrial Arts</i>	Donald Frank Vreeland	<i>Recreation-Youth Organization Leadership</i>
Cornelius Herbert Kennedy	<i>Recreation-Youth Organization Leadership</i>	Horace Lawrence Walker	<i>Physical Education</i>
Donald Joseph Messing	<i>Physical Education and Health Education</i>	Beverly Jean Wills	<i>Physical Education</i>

DEGREE OF MASTER ARTS—*Education*

Gerald William Alkema	Lauris Jean Barr
Darlene Frances Allen	Michael Vincent Bell
Helen R. Anderson	Walter James Bennett
Jane Anne Peters Antone	Nina Mary Ann Berger
Ned Ramon Ash	Arthur Lee Berkey
John Perry Barber	Jack C. Bignall

†With High Honor

DEGREE OF MASTER OF ARTS—*Education* (Continued)

Lloyd Vincent Bishop	Dennis Raymond Jensen
Anthony Wayne Blagg	Virginia Lee Kohr
Joan Boand	Norman Dale Kreager
Harold George Bowden	Robert John Kritzer
Margaret Rorick Brewer	Robert Emmitt Kromer
John Lawrence Briggs	Sadie Murphy Liskum
Helen Minkoff Burke	Ford E. Longendyke
Joan Lauretta Carne	Lucille P. MacArthur
Robert John Church	James Francis McNeal
Richard Jerrold Clark	Bernice S. Mead
Gladys Marie Collier	Edna Volier Medley
Marian Osmun Denby	Leroy Ward Melzow
Helen Alice Doyle	Thomas William Mercer
Albert Roland Elwell	Dale Harvey Messerschmidt
Barbara A. Enyard	Harold Norton Murphy
Oral M. Esch	Kenneth Charles Nesseth
Harley Ambrose Franks	Rebecca Riddick Neuman
John Gelmisi	Raymond Charles Osborne
Gerald Wylie Gervais	George Clark Overstreet
Dale Robert Hansen	Cleo Downing Piercefield
Gilbert Allen Hansen	Robert James Piersma
Florence Beatrice Hill	Elliott Rankin Reum
Jacob Roy Hudson	John Herbert Richardson
Allen Jackson	Ruth Dalman Roos
Wallace Marshall Janowiak	Margaret Mary Rubenstein
Robert Francis Jemilo	James Raymond Ryan
	Inez Maria Savage

COLLEGE OF EDUCATION

DEGREE OF MASTER OF ARTS—*Education* (Continued)

Phylis Jean Sawdey

Vivian Knauss Sears

Helen M. Shafer

Darrell F. Sheridan

John Leslie Silvernale

Thomas Robert Smith

Donald Grant Speer

E. John Spindler

Milo D. Squire

Marilyn Esther Starr

William Emanuel Stokes

James Frank Stoll

Walter Leroy Stump

Robert Edward Swett

Joanne Louise VanSyckle

G. Ronald Vaughan

Archie Eugene Watson

Richard Clare Way

Hugh Arthur Whitmer

Jon Nicholas Whorley

David William Williams

Richard Gary Woudstra

Theodora Helen Zavell

COLLEGE OF COMMUNICATION ARTS

The candidates will be presented by DEAN FRED S. SIEBERT

DEGREE OF BACHELOR OF ARTS

Walter Berwill Archer, Jr.	<i>Advertising</i>	Samuel Chu Lin	<i>Television, Radio and Film</i>
Dixie Dee Bates	<i>Journalism</i>	Robert Wencil Neumann	<i>Journalism</i>
Charles Emory Conway	<i>Television, Radio and Film</i>	*Sidney Ben Phillips, Jr.	<i>Television, Radio and Film</i>
Janice Kay DeMeester	<i>Journalism</i>	Allen Jackie Pyle	<i>Television, Radio and Film</i>
Robert Littlewood Fienberg	<i>Journalism</i>	Richard Vernon Ramsdell	<i>Television, Radio and Film</i>
*James Dwight Gibson	<i>General Communication Arts</i>	Charles Herbert Richards	<i>Journalism</i>
Jean Elizabeth Hagan	<i>Advertising</i>	Jerry W. Sanford	<i>Advertising</i>
*Roger Paul Hansen	<i>Speech Pathology and Audiology</i>	Elizabeth Mildred Shahan	<i>Speech</i>
Edward Kolenda	<i>Television, Radio and Film</i>	Robert Lewis Spangler	<i>Television, Radio and Film</i>
James Conrad Lau	<i>Television, Radio and Film</i>	Theodore James Thompson	<i>Advertising</i>
		Donald Carleton Will	<i>Television, Radio and Film</i>

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

Richard Gabriel Beaudry	<i>Speech</i>	Jane Rachel Penna	<i>Speech</i>
Deirdre Sutphen Circle	<i>Speech Pathology and Audiology</i>	*Ruth Anne Schlotter	<i>Speech</i>
Jennifer Ann Kennedy	<i>Speech</i>		

DEGREE OF MASTER OF ARTS

Jack Byrel Frank	<i>Television, Radio and Film</i>	Ivan L. Preston	<i>General Communication Arts</i>
Elke Koch-Weser	<i>General Communication Arts</i>	Ila Mae Roback	<i>Speech</i>
James Leonard Mayfield	<i>Speech</i>	William Benjamin Stutler	<i>Advertising</i>
Karen Marie Nielsen	<i>Speech</i>		

*With Honor

SCHOOL FOR ADVANCED GRADUATE STUDIES

The candidates will be presented by DEAN MILTON E. MUELDER

CANDIDATES FOR THE DOCTORAL DEGREES

- Jagan Nath Ahuja, Ph.D. B.S., M.S., Agra University.
Chemistry. *Major Professor:* G. L. Kilgour, Assistant Professor.
Thesis: Studies on the Biosynthesis of Phytic Acid.
- Kenward Louis Atkin, Ph.D. B.A., M.A., University of Michigan.
Communication Arts. *Major Professor:* P. J. Deutschmann, Professor.
Thesis: Images, Reference Groups, and Communications Patterns in Food Store Choice.
- Edwin Reynolds Bailey, Ph.D. A.B., B.S., M.A., Western Michigan University.
Education. *Major Professor:* F. G. Parker, Associate Professor.
Thesis: A Theory of Creative Human Relations Implications for Educational Administration.
- Carl Theodore Bergstrom, Ph.D. B.B.A., M.A., University of Michigan.
Education. *Major Professor:* D. J. Leu, Professor.
Thesis: An Analysis of the Impact of Program Change on School Buildings.
- Naser Georges Bodiya, Ph.D. B.S., M.B.A., University of Detroit.
Business Administration. *Major Professor:* J. L. Hazard, Professor.
Thesis: An Analysis of Factors Underlying the Recent Decline of American Automobile Exports to Selected Latin American Markets.
- Allan R. Broadhurst, Ph.D. B.A., Denison University; B.D., Drew University.
Speech. *Major Professor:* D. H. Ecroyd, Associate Professor.
Thesis: A Thematic Analysis and Rhetorical Study of the Sermons of Dr. Norman Vincent Peale.
- Leonard D. Brown, Ph.D. B.S., Western Kentucky State; M.S., University of Kentucky.
Dairy. *Major Professor:* C. A. Lassiter, Professor.
Thesis: Hay and Silage Studies with Dairy Cattle.

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Don Marvin Carlson, Ph.D. B.S., North Dakota Agricultural College; M.S., University of Illinois.
Biochemistry. *Major Professor:* R. G. Hansen, Professor.
Thesis: The Isolation and Synthesis of Guanosine Diphosphate Glucose.
- Lois Ann Cheney, Ph.D. B.A., Muskingum College; M.A., Kent State University.
Speech. *Major Professor:* K. G. Hance, Professor.
Thesis: A Rhetorical Study of Selected Speeches of Dr. Albert Schweitzer.
- Frank James Chloupek, Ph.D. B.S., Illinois Institute of Technology.
Chemistry. *Major Professor:* H. Hart, Professor.
Thesis: Products and Rates of Decomposition of Some Bicyclic Diacyl Peroxides.
- Jerome Francis Chmielewski, Ph.D. B.S., M.S., Michigan State University.
Mechanical Engineering. *Major Professor:* R. T. Hinkle, Professor.
Thesis: Design Calculation for Four Bar Linkage Function Generators.
- Harold Edwin Christen, Ph.D. B.S., University of Connecticut; M.F., Yale University.
Forestry. *Major Professor:* L. M. James, Professor.
Thesis: A Survey of the Capabilities of Lake States' Forests to Support an Expanding Pulp and Paper Industry.
- Harold Bernard Davis, Ph.D. B.A., New York University; M.A., Teachers College, Columbia University.
Psychology. *Major Professor:* A. I. Rabin, Professor.
Thesis: Some Symbolic Meanings of the Rorschach Inkblots.
- Johannes Delphendahl, Ph.D. Diplomlandwirt, Landwirtschaftliche Hochschule Hohenheim; M.S., University of Massachusetts.
Agricultural Economics. *Major Professor:* R. Barlowe, Professor.
Thesis: Expenditure Patterns and Services Rendered by Michigan Townships, 1945-1958.
- Marie Eunice Dubke, Ph.D. B.S., M.B.A., University of Buffalo.
Accounting. *Major Professor:* J. D. Edwards, Professor.
Thesis: Department Store Expansion, 1945-1959: Certain Aspects of the Extent, Means and Results of Expansion in Selected Publicly Owned Firms.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- George M. Gentry, Ph.D. B.A., M.S., University of Oklahoma.
Education. *Major Professor:* W. F. Johnson, Professor.
Thesis: Some Behavioral Concomitants of Time Orientation.
- Savita Gupta, Ph.D. B.A., M.A., Agra University, India.
Sociology. *Major Professor:* J. A. Beegle, Professor.
Thesis: Net Migration in Michigan 1950-1960: A Study of Population Change in Relation to the Functional Variables.
- Anthony John Guthrie, Ph.D. B.A., M.A., University of Notre Dame.
Education. *Major Professor:* W. W. Farquhar, Associate Professor.
Thesis: Traits of Discipline Cases at Michigan State University.
- Don J. Heinz, Ph.D. B.S., M.S., Utah State University.
Farm Crops. *Major Professor:* F. C. Elliott, Professor.
Thesis: Improvement of Grasses Through Induced Chromosomal Recombinations.
- Gerald Daniel Jacobs, Ph.D. B.A., Bowling Green State University.
Chemistry. *Major Professor:* R. H. Schwendeman, Assistant Professor.
Thesis: Studies of the Molecular Structure of Ethyl Chloride, Chloromethylsilane, and Cyclopropyl Chloride by Microwave Spectroscopy.
- Dennis Charles Kuzma, Ph.D. B.S., M.S., Michigan State University.
Applied Mechanics. *Major Professor:* J. E. Lay, Professor.
Thesis: A Theoretical Investigation of Annular Magnetohydrodynamic Flow with a Moving Boundary.
- Benjamin Tillman
Lanham, Jr., Ph.D. B.S., Clemson College; M.S., University of Tennessee.
Agricultural Economics. *Major Professor:* L. W. Witt, Professor.
Thesis: Financial and Personnel Resources in and Recruiting and Training of Personnel in Agricultural Economics at Land-Grant Institutions.
- Vely Michel Leroy, Ph.D. B.A., University of Notre Dame; Master of Commerce., Ecole des Hautes Etudes.
Economics. *Major Professor:* T. Mayer, Professor.
Thesis: The Demand For Money, Income and Employment.

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Jacques M. Levy, Ph.D. B.A., City College of New York; M.A., Michigan State University.
 Psychology. *Major Professor:* A. I. Rabin, Professor.
Thesis: Regression in the Service of the Ego and Its Relation to Creativity.
- Siepkow Hendrik Lok, Ph.D. B.S.A., M.S.A., University of British Columbia.
 Agricultural Economics. *Major Professor:* R. Barlowe, Professor.
Thesis: An Enquiry Into the Relationships Between Changes in Over-all Productivity and Real Net Return Per Farm and Between Changes in Total Output and Real Gross Return, Canadian Agriculture, 1926 to 1957.
- Abdulla M. Lutfiyya, Ph.D. B.A., William Penn College; M.A., Michigan State University.
 Social Science Divisional. *Major Professor:* J. Useem, Professor.
Thesis: Baytin: A Jordanian Village. A Study of Social Institutions and Social Change in a Folk Community.
- John Nelson Marr, Ph.D. B.A., University of Michigan; M.A., Michigan State University.
 Psychology. *Major Professor:* S. C. Ratner, Associate Professor.
Thesis: Varying Stimulation and Imprinting in Puppies.
- J. Paxton Marshall, Ph.D. B.S., University of Kentucky; M.A., Michigan State University.
 Agricultural Economics. *Major Professor:* G. L. Johnson, Professor.
Thesis: The Close Corporation as a Form of Business Organization for Michigan Family Farms.
- John McKeever, Ph.D. B.S., Bowling Green State University; M.B.A., University of Denver.
 Business Administration. *Major Professor:* B. C. Lemke, Professor.
Thesis: An Investigation of the Allocation of State Highway Construction Expenditures in Ten States and Recommendations of a System of Financial Planning and Control for Such Expenditures.
- Ramzi Hanna Misho, Ph.D. B.S., College of Science, Baghdad; M.S., Colorado State University.
 Physics. *Major Professor:* D. J. Montgomery, Professor.
Thesis: Effect of Isotopic Composition on Infrared Absorption of Thin Films of Lithium Fluoride and Lithium Hydride.
- John Hoffman Nordin, Ph.D. B.S., University of Illinois.
 Biochemistry. *Major Professor:* R. G. Hansen, Professor.
Thesis: Heterogeneity of Glycogen.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Jack Ivan Ohms, Ph.D. B.S., Iowa State College; M.S., Michigan State University.
Dairy. *Major Professor:* M. J. Gordon, Assistant Professor.
Thesis: The Immunological Response of the Bovine and Rabbit to Pregnant Mare Serum Gonadaltrophin.
- Braxton Irvine Patterson, Ph.D. B.S., M.A., Bradley.
Economics. *Major Professor:* T. Mayer, Professor.
Thesis: Studies in the Operation of Financial Intermediaries.
- Harold Powell, Ph.D. B.S., M.S., North Carolina State College.
Chemistry. *Major Professor:* R. M. Herbst, Professor.
Thesis: Tetrazole Derivatives: Tetrazolopyrimidines.
- Lawrence P. Quinn, Ph.D. B.S., Franklin and Marshall College.
Chemistry. *Major Professor:* C. H. Brubaker, Professor.
Thesis: The Catalytic Effect of Some Organic Acids of the Oxidation of Uranium (IV) by Thallium (III) in Perchloric Acid.
- Robert Roland Rafos, Ph.D. B.A., The College of Wooster.
Chemistry. *Major Professor:* H. Hart, Professor.
Thesis: Dipositive Carbonium Ions.
- Ernest Paul Riedel, Ph.D. B.E., Cornell University; M.S., University of Wisconsin.
Physics. *Major Professor:* R. D. Spence, Professor.
Thesis: The Application of Shubnikov Groups to the Determination of Antiferromagnetic Structures.
- John Phillip Riehm, Ph.D. B.S., Ontario Agriculture College.
Chemistry. *Major Professor:* J. C. Speck, Associate Professor.
Thesis: Proteolysis and Inhibition of a B-Amylase.
- Saulo Jose Rodriguez-Ortiz, Ph.D. A.B., Puerto Rico College; M.A., Rutgers University.
Horticulture. *Major Professor:* A. L. Kenworthy, Professor.
Thesis: The Chemical Composition of Green Coffee Beans and Coffee Leaves as Related to Soil and Foliar Applications of Secondary and Minor Elements.

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Roland J. St. Arnaud, Ph.D. B.S.A., M.S., University of Saskatchewan.
Soil Science. *Major Professor:* E. P. Whiteside, Professor.
Thesis: The Pedogenesis of a Black-Grey Wooded Sequence of Soils in Saskatchewan, Canada.
- Peggy Kester Schomaker, Ph.D. B.S., M.S., Pennsylvania State University.
Home Management. *Major Professor:* A. C. Thorpe, Professor.
Thesis: Financial Decision-Making As Reported by 100 Farm Families in Michigan.
- Denny A. Silvestrini, Ph.D. B.S., University of British Columbia; M.S., University of Toronto.
Food Science. *Major Professor:* L. E. Dawson, Associate Professor.
Thesis: Some Physical and Chemical Aspects of Mottled Egg Yolks.
- Hari Mohan Singh, Ph.D. B.S., Bihar Agricultural College; M.S., Michigan State University.
Soil Science. *Major Professor:* A. R. Wolcott, Associate Professor.
Thesis: Correlation Studies With Corn Using Seasonal Soil and Tissue Tests.
- James S. Skelcey, Ph.D. B.S., University of Detroit.
Chemistry. *Major Professor:* R. N. Hammer, Associate Professor.
Thesis: Siloxy-Bis (cyclopentadienyl) Titanium (IV) Compounds.
- Mildred Beatty Smith, Ph.D. B.S., South Carolina State College; M.A., Michigan State University.
Education. *Major Professor:* G. R. Myers, Associate Professor.
Thesis: The Influence of Teachers' Behavior on Students' Educational and Vocational Expectations.
- Roy William Snyder, Ph.D. B.S., Pennsylvania State University; M.S., University of Southern California.
Microbiology and Public Health. *Major Professor:* D. E. Schoenhard, Associate Professor.
Thesis: The Production of Mutants, Generalized Transduction, and the Lytic Reaction in *Salmonella Gallinarum Pullorum*.
- John Junior Solomon, Ph.D. B.S., M.S., Michigan State University.
Microbiology and Public Health. *Major Professor:* C. L. San Clemente, Professor.
Thesis: Phage Typing of Staphylococci of Bovine and Biochemical Characterization of Basic Phage Propagating Strains.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Willard Robert Sparks, Ph.D. B.S., M.S., Oklahoma State University.
Agricultural Economics. *Major Professor:* C. Hildreth, Professor.
Thesis: Estimates of the Demand for Food from Consumer Panel Data.
- William Stielstra, Ed.D. B.A., Calvin College; M.A., University of Michigan.
Education. *Major Professor:* W. F. Johnson, Professor.
Thesis: A Study of the Beliefs and Academic Behavior of Freshman Engineering Students at Purdue University.
- Ellwyn R. Stoddard, Ph.D. B.S., Utah State Agricultural College; M.A., Brigham Young University.
Sociology. *Major Professor:* W. H. Form, Professor.
Thesis: Catastrophe and Crisis in a Flooded Border Community: An Analytical Approach to Disaster Emergence.
- Thomas Robert Trabasso, Ph.D. B.S., Union College; M.A., Michigan State University.
Psychology. *Major Professor:* F. Restle, Associate Professor.
Thesis: The Effect of Stimulus Emphasis on Strategy Selection in the Acquisition and Transfer of Concepts.
- Robert Benton Trader, Ed.D. B.S., Indiana University; Litt. M., University of Pittsburgh.
Education. *Major Professor:* P. L. Dressel, Professor.
Thesis: A Study of the Relationship of Scheduled Contact Hours to Credit Hours in Eight Publicly Supported Colleges and Universities in the State of Michigan.
- Michele Albert Tucci, Ph.D. B.A., M.A., Michigan State University.
Education. *Major Professor:* G. A. Miller, Associate Professor.
Thesis: The Relationship of School Maladjustment to School-Drop-Outs.
- Ruth Schweigert Tukey, Ph.D. B.A., Ithaca College; M.A., Michigan State University.
Education. *Major Professor:* B. R. Corman, Professor.
Thesis: A Study of Differences Found Between Intellectually-Oriented and Socially-Oriented Superior Girls.

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Paul Arthur Van Dreal, Ph.D. B.S., Calvin College.
 Botany and Plant Pathology. *Major Professor:* G. B. Wilson Professor.
Thesis: Mitotic Activity and Respiration in the Pea Root Meristem.
- Heinrich von Moltke, Ph.D. B.A., Wayne State University; M.A., University of Wisconsin.
 Speech. *Major Professor:* D. C. Ralph, Associate Professor.
Thesis: Paul Joseph Goebbels—Spokesman for the Third Reich.
- Jervis Winn Wacasey, Ph.D. B.S., M.S., Texas Technological College.
 Zoology. *Major Professor:* M. M. Hensley, Associate Professor.
Thesis: An Ecological Study on Two Sympatric Species of Salamanders, *Ambystoma maculatum* and *Ambystoma jeffersonianum*, in Southern Michigan.
- John Halbert Wakeley, Ph.D. B.A., College of Wooster; M.S., North Carolina State College.
 Psychology. *Major Professor:* C. F. Frost, Professor.
Thesis: The Effects of Specific Training on Accuracy in Judging Others.
- Terry Allen Welden, Ph.D. A.B., West Virginia University; M.A., University of Pittsburgh.
 Speech. *Major Professor:* K. G. Hance, Professor.
Thesis: The Effect of Message Order in Controversial Material on Attitudes and Retention.
- Joseph Lewis White, Jr., Ph.D. B.A., M.S., San Francisco State College.
 Psychology. *Major Professor:* A. I. Rabin, Professor.
Thesis: Attitudes Toward Child Rearing as Related to Some Psychodynamic Factors in Mothers.
- Robert Mack Williams, Ph.D. B.S., Texas Technological College; M.S., Michigan State University.
 Dairy. *Major Professor:* T. I. Hedrick, Professor.
Thesis: Store Merchandising of Cheese and Consumer Reactions.
- Eugene Zukowsky, Ph.D. A.B., New York University; M.A., City College of New York.
 Psychology. *Major Professor:* A. I. Rabin, Professor.
Thesis: Measuring Primary and Secondary Process Thinking in Schizophrenics and Normals by Means of the Rorschach.

SCHOOL FOR ADVANCED GRADUATE STUDIES

GRADUATES AS OF SEPTEMBER 1, 1961

DIPLOMA FOR ADVANCED GRADUATE STUDY

Lyle Morse Chenoweth B.S., Western Michigan University; M.A., University of Michigan.
Education. *Major Professor:* W. H. Roe, Professor.

CANDIDATES FOR THE DOCTORAL DEGREES

Sister Mary Teresita Austin, Ph.D. B.A., Western Michigan University; M.A., Notre Dame University.
History. *Major Professor:* M. E. Gesner, Assistant Professor.
Thesis: The Political, Economic, and Social Aspects of Edward VI's
Reign as Viewed Through the Sermons and Letters of Hugh Latimer.

Gurwant S. Bajwa, Ph.D. B.V.Sc., Punjab University; M.S., University of Maryland.
Veterinary Pathology. *Major Professor:* R. D. Barner, Professor.
Thesis: Bovine Mucosal Disease in Michigan.

John M. Ball, Ph.D. B.A., Central Michigan University; A.M., University of Michigan; S.M.,
University of Chicago.
Geography. *Major Professor:* P. C. Morrison, Professor.
Thesis: The Urban Geography of Tepic, Nayarit, Mexico: A Study of
Changing Functions.

Sidney C. Bell, Ph.D. B.S., M.S., Alabama Polytechnic Institute.
Agricultural Economics. *Major Professor:* G. L. Johnson, Professor.
Thesis: Derivation of Estimates of Marginal Factor Costs Function for
Credit for Cash Crop, Dairy and Beef Cattle Farmers in Selected
Areas of Michigan, 1960.

Don LeRoy Bisdorf, Ph.D. B.M., McPhail Minneapolis College of Music; B.A., Northwestern Col-
lege; M.M., Michigan State University.
Music Education. *Major Professor:* W. R. Sur, Professor.
Thesis: A Study of Administrative Problems Effecting the Development
of Instrumental Ensembles in Selected Small Colleges.

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Earl R. Brown, Ph.D. B.S., M.S., University of Minnesota.
 Agricultural Economics. *Major Professor:* V. L. Sorenson, Associate Professor.
Thesis: An Economic Analysis of Bantams and Conventional Convenience Food Stores.
- John H. Bushnell, Ph.D. B.A., Vanderbilt University; M.S., Michigan State University.
 Zoology. *Major Professor:* T. W. Porter, Professor.
Thesis: The Bryozoa of Michigan—Taxonomy, Ecology and Distribution (Part I) Growth, Mortality, and Longevity of *Plumatella Repens* (Part II).
- Alvin Jay Bytwork, Ph.D. B.A., Calvin College; M.A., Michigan State University.
 Marketing. *Major Professor:* W. J. Crissy, Professor.
Thesis: The Effectiveness of Alternatives to Purchase in the Marketing of Construction Equipment Through Distributors.
- Doris C. DeHardt, Ph.D. B.A., M.A., University of Missouri.
 Psychology. *Major Professor:* S. H. Bartley, Professor.
Thesis: An Investigation of Tactual Apparent Movement.
- Samuel L. DeLeeuw, Ph.D. B.S., M.S., Michigan State University.
 Applied Mechanics. *Major Professor:* G. E. Mase, Professor.
Thesis: Behavior of Viscoelastic Plates Under the Action of In-Plane Forces.
- Arleigh R. Dodson, Ph.D. B.A., Kalamazoo College; M.S., Michigan State University.
 Chemistry. *Major Professor:* R. D. Schuetz, Professor.
Thesis: The Synthesis and Properties of Polythiophenes.
- Mary Patricia Faber, Ph.D. B.S., Bowling Green State University.
 Chemistry. *Major Professor:* J. L. Dye, Professor.
Thesis: The Conductances of Zinc Perchlorate and Potassium Octacyanomolybdate (IV) and the Transference Number of Zinc Sulfate in Aqueous Solution at 25°C.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Harold Edward Fearon, Ph.D. B.S., M.B.A., Indiana University.
Business Administration. *Major Professor:* J. H. Hoagland, Associate Professor.
Thesis: Purchasing Research in American Business.
- Marie Ferguson, Ph.D. A.B., Friends University; B.D., Hartford Theological Seminary.
Education. *Major Professor:* B. Steffle, Professor.
Thesis: Psychological Group Counseling with Socially Isolated Seventh Grade Girls—An Exploratory Study.
- Harold F. Goldsmith, Ph.D. Ph.B., M.A., University of Chicago.
Sociology and Anthropology. *Major Professor:* J. A. Beegle, Professor.
Thesis: The Meaning of Migration: The Study of the Migration Expectations of High School Students.
- John D. Graham, Ph.D. B.S., Providence College.
Chemistry. *Major Professor:* M. T. Rogers, Professor.
Thesis: Proton Magnetic Resonance of Some Cyclopropane Derivatives and Fluorine Magnetic Resonance of Some Perfluoroalkyl Derivatives of Sulfur Hexafluoride and Some Fluorocarbon Nitrogen Compounds.
- James Perry Harkness, Ph.D. B.A., M.A., Michigan State University.
Sociology and Anthropology. *Major Professor:* D. L. Gibson, Professor.
Thesis: Hospital Organization in Transition: A Sociological Analysis of Interlocking Social Systems.
- Hajime Hayashi, Ph.D. B.S., M.S., Michigan State University.
Microbiology and Public Health. *Major Professor:* W. N. Mack, Professor.
Thesis: Studies on the Viral Etiology of Verruca Vulgaris in Tissue Cell Culture.
- Peter Wing Hemingway, Ph.D. A.B., Stanford University; M.A., Michigan State University.
Psychology. *Major Professor:* J. S. Karlake, Professor.
Thesis: Multiple Agreement Analysis.

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Gerald L. Hershey, Ph.D. A.A., University of California at Los Angeles; B.A., M.A., Michigan State University.
 Education. *Major Professor:* L. V. Shepard, Professor.
Thesis: An Experimental Study of the Relative Effectiveness of Classroom Observation and Simulated Teaching in an Introductory Educational Psychology Course.
- Francis Xavier Hodgson, Ph.D. B.A., University of Philippines; M.S., Cornell University.
 Business Administration. *Major Professor:* D. G. Moore, Professor.
Thesis: Cross-Cultural Conflict: An Illustration of the Implications for American Business Management Overseas.
- William C. Holm, Ph.D. B.S., M.S., Michigan State University.
 Electrical Engineering. *Major Professor:* M. B. Reed, Professor.
Thesis: Power Output and Efficiency of Pulse Duration Modulated Amplifiers.
- Justin C. Huang, Ph.D. B.S., University of Washington; M.S., Michigan State University.
 Physics. *Major Professor:* J. S. Kovacs, Assistant Professor.
Thesis: Final State Interactions in Strange Particle Production.
- William E. Inniss, Ph.D. B.S., M.S., Ontario Agricultural College.
 Microbiology and Public Health. *Major Professor:* C. L. San Clemente, Professor.
Thesis: Biochemical Studies on Staphylocoagulase with Emphasis on Associated Phosphatase Activity.
- Marvin S. Kaplan, Ph.D. B.S., M.S., City College of New York.
 Education. *Major Professor:* W. F. Johnson, Professor.
Thesis: An Investigation of the Anxiety Levels of Mentally Handicapped Child with Special Consideration of the Effect of Special Education Classes.
- Frank W. Kearns, Ph.D. B.S., Utah State University; M.S., Michigan State University.
 Forestry. *Major Professor:* L. M. James, Professor.
Thesis: An Economic Appraisal of the State Forests of Michigan.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Adrian J. Klaasen, Ph.D. Ph.B., University of Chicago; M.A., Michigan State University.
Marketing. *Major Professor:* D. A. Taylor, Professor.
Thesis: A Conceptual Framework for Determination of the Optimum Marketing Mix.
- Myron Kuczmak, Ph.D. M.S., Lwow Technical University, Poland.
Biochemistry. *Major Professor:* N. E. Tolbert, Professor.
Thesis: Metabolism of Glycolic Acid.
- C. James Lafkiotes, Ed.D. B.M., University of Michigan; M.A., Columbia University.
Education. *Major Professor:* D. J. Leu, Professor.
Thesis: The Relationship of Perceptual Classification to Principal-Teacher and Principal-Pupil Interaction in Selected High Schools.
- Bernard J. LaLonde, Ph.D. B.A., University of Notre Dame; M.B.A., University of Detroit.
Marketing. *Major Professor:* T. A. Staudt, Professor.
Thesis: Differentials in Supermarket Drawing Power and Per Capita Sales by Store Complex and Store Size.
- Richard G. Leffler, Ph.D. B.A., Emmanuel Missionary College; M.S., Michigan State University
Physics. *Major Professor:* D. J. Montgomery, Professor.
Thesis: The Effect of Isotopic Composition on the Electrical Resistance of Lithium.
- John David Loerch, Ph.D. B.S., Michigan State University.
Chemistry. *Major Professor:* J. L. Fairley, Professor.
Thesis: Ribonucleic Acid Metabolism During Beta-Galactosidase in Non-Growing *Escherichia Coli*.
- Joseph H. MacNeil, Ph.D. B.S., McGill University, Quebec; M.S., Michigan State University.
Food Science. *Major Professor:* L. E. Dawson, Associate Professor.
Thesis: A Calorimetric and Histological Method for Studying Freezing Rates in Turkeys.

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Harold R. Marquardt, Ph.D. B.A., M.A., Michigan State University.
Education. *Major Professor:* W. W. Farquhar, Associate Professor.
Thesis: The Role of the Resident Assistant in the Men's Residence Halls at Michigan State University.
- R. Clyde McCone, Ph.D. B.A., Wessington Springs College; M.S., South Dakota State College.
Sociology and Anthropology. *Major Professor:* I. Ishino, Associate Professor.
Thesis: Mirror for Anthropology: A Cultural Analysis of the Study of Man and Culture.
- Pat N. McLeod, Ed.D. B.S., M.S., North Texas State College.
Education. *Major Professor:* B. Steffire, Professor.
Thesis: Doctoral Program in the School of Education at North Texas State University and Other Selected Institutions.
- Everett Perkins Merrill, Ph.D. B.S., M.S., University of Vermont.
Food Science. *Major Professor:* J. M. Jensen, Associate Professor.
Thesis: Detergency of Chlorinated Trisodium Phosphate on Milk Protein Soils from Stainless Steel and Glass.
- Paul Raymond Messier, Ph.D. B.S.Ed., Lowell State Teachers College; M.A., Columbia University.
Education. *Major Professor:* F. G. Parker, Associate Professor.
Thesis: Social Interaction Patterns and Occupational Aspirations of Selected High School Students.
- Ronald Gene Rex, Ph.D. B.S., Ball State Teachers College; M.A., Western Michigan University.
Education. *Major Professor:* W. V. Hicks, Professor.
Thesis: A Theory of the Internship in Professional Training.
- Jeung Rhee, Ph.D. B.A., M.A., Seoul National University, Korea.
Education. *Major Professor:* D. J. Leu, Associate Professor.
Thesis: An Analysis of Selected Aspects of Public Financial System in Michigan.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Con H. Schallau, Ph.D. B.S., Iowa State University; M.S., Michigan State University
Forestry. *Major Professor:* L. M. James, Professor.
Thesis: An Investigation of Private Forest Landownership in the Southernmost Thirty-Seven Counties of the Lower Peninsula of Michigan.
- Donald A. Schmidt, Ph.D. B.S., University of Wisconsin; D.V.M., Michigan State University; M.S., University of Minnesota.
Veterinary Pathology. *Major Professor:* C. C. Morrill, Professor.
Thesis: Some Micromorphologic Features of the Intestinal Tract of the Young Pig. I. Mitotic Activity of the Epithelium II. A Micromorphologic Comparison of Gnotobiotic and Airm-Raised Pigs.
- Carl I. Shafer, Ed.D. B.S., M.A., Western Michigan University.
Education. *Major Professor:* L. Borosage, Professor.
Thesis: A Study of the Evaluative Practices in Management Education and Development Programs in Selected United States Companies.
- C. Alex Shivers, Ph.D. B.S., M.A., George Peabody College.
Zoology. *Major Professor:* J. R. Shaver, Professor.
Thesis: Immunobiological Studies of the Species-Specificity of Egg Jellies of the Frog.
- Paul P. Sidwell, Ph.D. B.S., M.S., Purdue University.
Education. *Major Professor:* M. S. Smith, Professor.
Thesis: A Case Study of Selected Factors Relating to Continuance or Withdrawal of Full-Term Freshmen at Grand Rapids Junior College.
- Stuart Duane Sleight, Ph.D. D.V.M., M.S., Michigan State University.
Veterinary Pathology. *Major Professor:* R. F. Langham, Professor.
Thesis: The Effects of *Leptospira Pomona* Hemolysin on Pregnant Ewes, Cows, and Sows.

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

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| H. Daniel Stillwell, Ph.D. | <p>B.S., M.F., Duke University.</p> <p>Geography. <i>Major Professor:</i> D. H. Brunnschweiler, Associate Professor.</p> <p><i>Thesis:</i> A Geography of Itatiaia National Park, Brazil.</p> |
| Charles J. Sylvester, Ph.D. | <p>B.S., University of Detroit; M.S., Michigan State University.</p> <p>Microbiology and Public Health. <i>Major Professor:</i> H. L. Sadoff, Associate Professor.</p> <p><i>Thesis:</i> A Comparison of Certain Salivary Properties from Specific Major Salivary Glands of Caries-Resistant and Caries-Susceptible Rats.</p> |
| Glenn Lee Waxler, Ph.D. | <p>B.S., D.V.M., University of Illinois; M.S., Michigan State University.</p> <p>Veterinary Pathology. <i>Major Professor:</i> C. K. Whitehair, Professor.</p> <p><i>Thesis:</i> Studies on Gnotobiotic Pigs: I. A Technique for Rearing Gnotobiotic Pigs, II. A Comparison of Body Weights, Organ Weights, and Some Histological Features of Gnotobiotic and Farm-Raised Pigs.</p> |
| Sie-Byung Yoon, Ph.D. | <p>M.D., Medical College, Seoul National University.</p> <p>Zoology. <i>Major Professor:</i> A. S. Fox, Associate Professor.</p> <p><i>Thesis:</i> Studies of the Effects of X and Y Chromosomes on Protein Synthesis and Spermatozoal Development in <i>Drosophila melanogaster</i>.</p> |

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