

THE  
UNIVERSITY OF MINNESOTA

Announces Its

*March Commencement*

*1961*

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, MARCH 16

AT EIGHT-THIRTY O'CLOCK



## *University of Minnesota*

### THE BOARD OF REGENTS

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The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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As a courtesy to those attending functions, and out of respect for the character of the building, be it resolved by the Board of Regents that there be printed in the programs of all functions held in Cyrus Northrop Memorial Auditorium a request that smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms, and that members of the audience be not allowed to use cameras in the Auditorium.

## *This Is Your University*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and tenth birthday. As from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of physicians, lawyers, engineers, social workers, educators, journalists, dentists, veterinarians, farmers, businessmen—community and civic leaders in all fields—who have gone from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence the University has awarded more than 151,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to more than 28,000 students on its Minneapolis, St. Paul, Duluth, and Morris Campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members who are county agents, home agents, 4-H Club agents, and recreation and health consultants give effective assistance to citizens of the state in their very homes.

But the University of Minnesota, like all great universities, has expanded far beyond its early teaching and training programs. In the diverse research laboratories on its four campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Mayo Foundation at Rochester, the Hormel Institute at Austin, and at University Hospitals, University scientists at any one moment are working on countless research experiments of vital importance to the future health and welfare of us all. These projects deal with such matters as cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, nuclear energy, school surveys, and new varieties of grains, fruits, and flowers, to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the University Artists Course, Radio Station KUOM, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to

provide an endowed research professorship in heart disease. Further contributions have made it possible for the University to build the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the biological-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose thoughtful cooperation has made hundreds of scholarships and fellowships available each year to students of promise. Chiefly because of financial difficulties, only one-half of the Minnesota high school graduates of high ability enter any college or university. Because of this, the friends and supporters of the University are constantly trying to increase the number of scholarships and the amount of money available for such assistance.

Over recent years, much of the University's energy has gone into the necessary planning for the anticipated increases in future enrollments. At present about half of the students in Minnesota colleges and universities attend the University of Minnesota. If the other institutions continue to take this same percentage of these students, not less than 47,000 full-time, fully matriculated students will be attending the University in 1970. This means more teachers, more civil service staff members, more land, and more buildings.

THE 1959 LEGISLATURE granted the University \$49,068,181 for general maintenance during the 1959-61 biennium. In addition, the University will receive \$8,879,748 for University Hospitals; \$4,141,355.69 for special appropriations, including special extension and research activities; and \$14,457,150 for new buildings, land, and for the rehabilitation of existing buildings.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request as is a much more comprehensive and complete statement for those who wish to make a special study of the University's income and expenditures.

The summary financial statement of 1959-60 showed that the University received \$90,177,067.15 and spent \$90,177,626.52. This includes a total of \$16,228,815.94 received from student tuition and fees, hospital and other department receipts; \$1,254,107.29 from intercollegiate athletics; \$15,243,194.78 from such services as dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, the University Theater, and the Health Service, and from the revolving funds; and \$20,265,209.92 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research, prizes, scholarships, and the care of the sick. Also, \$2,659,035.91 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$90,177,067.15 which the University received for 1959-60, \$34,526,703.31, or 38.3 per cent, came from the state.

All students at the University, their families and friends are invited to continue their enthusiasm and interest in the University of Minnesota. Graduates are especially urged to identify themselves with the Minnesota Alumni Association and the Greater University Fund and to return as frequently as possible to visit us here at the University.

## Order of Events

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:45 to 8:15 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Miss Helen Garvey, Carillonneur. Admission to the March commencement exercises is by guest card only.

**PRELUDE CONCERT:** From 8:00 to 8:30 p.m., the University Concert Band Ensemble, conducted by Instructor in Music and Bandmaster Frank Bencriscutto, D.M.A., will play:

<i>American Overture</i>	- - - - -	Jenkins
<i>Chorale and Alleluia</i>	- - - - -	Howard Hanson
<i>Academic Festival Overture</i>	- - - - -	Brahms

**PROCESSION:** The audience is requested to remain seated so that all can see the procession. At 8:30 p.m., Associate Professor W. Donald Beatty, Ph.D., College of Science, Literature, and the Arts, Faculty Marshal, will carry the Mace into the auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Beatty, as Mace Bearer, will present the Mace at the center of the stage. When all of those marching have taken their seats, he will put the Mace on the table, to signal the beginning of the ceremony. During the procession, the Concert Band Ensemble will play:

<i>American Scene</i>	- - - - -	Frank Bencriscutto
<i>Pageant</i>	- - - - -	Vincent Persichetti

**ON THE STAGE:** The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are: Associate Professor Forrest G. Moore, Ph.D., College of Education, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Associate Dean Huntington Miller, LL.B., General Extension Division; Colonel Roy K. Kauffman, USA, Professor of Military Science; Associate Dean J. William Buchta, Ph.D., College of Science, Literature, and the Arts; Associate Dean Theodore H. Fenske, D.Sc., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Vice President and Administrative Assistant Stanley J. Wenberg, M. A.; Dean Robert E. Summers, M.S., M.E.; Professor Chauncy D. Harris, Ph.D., University of Chicago, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Dean of Students Edmund G. Williamson, Ph.D.; The Reverend Alvin G. Lewis, Adviser to Lutheran students and staff members on the St. Paul Campus of the University; Vice President Laurence R. Lunden, LL.D., Business Administration; Dean Bryce L. Crawford, Ph.D., Graduate School; Dean Walter W. Cook, Ph.D., College of Education; Dean Horace T. Morse, Ph.D.,

## *Order of Events*

General College; Assistant Dean Richard J. FitzGerald, LL.B., Law School; Professor Stuart W. Fenton, Ph.D., Institute of Technology; Major Frederick D. Stockdale, USAF, Assistant Professor of Air Science; Professor Edwin L. Haislet, Ed.D., Executive Secretary of the Minnesota Alumni Association and Director of the Department of Alumni Relations; Instructor in Music Marcella Oja, M.A.; Assistant Professor Joseph V. Scaletti, Ph.D., College of Agriculture, Forestry, and Home Economics, Marshal; Professor George W. Mather, D.V.M., College of Veterinary Medicine, Marshal.

**PRESENTATION OF COLORS:** As the color guard, made up of University Army, Navy, and Air Force ROTC cadets and midshipmen, enters the auditorium, the Concert Band Ensemble will play:

*Fanfare* - - - - - Frank Bencriscutto

The audience will rise for the Presentation of Colors, and will remain standing for the National Anthem and the Invocation.

**THE NATIONAL ANTHEM:** The entire audience and Mrs. Oja, soloist.

Oh, say can you see, by the dawn's early light,  
What so proudly we hailed at the twilight's last gleaming,  
Whose broad stripes and bright stars, thro' the perilous fight,  
O'er the ramparts we watched, were so gallantly streaming?  
And the rocket's red glare, the bombs bursting in air,  
Gave proof thro' the night that our flag was still there.  
Oh, say does that star-spangled banner yet wave  
O'er the land of the free and the home of the brave?

**INVOCATION:** The Reverend Alvin G. Lewis.

**SPEAKING FOR THE UNIVERSITY:** President O. Meredith Wilson.

**COMMENCEMENT ADDRESS:** Professor Chauncy D. Harris, University of Chicago, *Your Years Ahead As an Educated Person*.

**CONFERRING OF ROTC CERTIFICATES:** Dean Summers will introduce Colonel Kauffman and Major Stockdale, who will present the candidates for commissions in their respective branches of the Armed Services. Certificates of ROTC completion will be presented by President Wilson.

**PRESENTATION OF CANDIDATES:** Dean Summers will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of

## Order of Events

their introduction: Associate Dean Miller for the General Extension Division; Dean Morse for the General College; Associate Dean Buchta for the College of Science, Literature, and the Arts, and for University College; Professor Fenton for the Institute of Technology; Associate Dean Fenske for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Cook for the College of Education; Dean Grambsch for the School of Business Administration; Assistant Dean FitzGerald for the Law School; Dean Howard for the College of Medical Sciences; Dean Crawford for the Graduate School.

**CONFERRING OF DEGREES:** President Wilson will confer certificates and degrees upon the members of this graduating class.

**SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION:** Professor Edwin L. Haislet, Executive Secretary of the Minnesota Alumni Association and Director of the Department of Alumni Relations.

**PRESENTATION OF DIPLOMAS:** With Dean Williamson presiding, members of the March graduating class will pass across the stage to receive their diplomas.

**CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY:** Candidates for this degree will be presented individually by Dean Crawford to President Wilson, who will confer the degrees.

**HAIL! MINNESOTA:** The University's Alma Mater song, sung by the audience and Mrs. Oja.

Minnesota, hail to thee!	Like the stream that bends to sea,
Hail to thee, our college dear!	Like the pine that seeks the blue,
Thy light shall ever be	Minnesota, still for thee
A beacon bright and clear;	Thy sons are strong and true;
Thy sons and daughters true	From thy woods and waters fair,
Will proclaim thee near and far;	From thy prairies waving far,
They will guard thy fame	At thy call they throng
And adore thy name;	With their shout and song,
Thou shalt be their Northern Star.	Hailing thee their Northern Star.

**RECESSIONAL:** The Concert Band Ensemble will play:

<i>Toccata for Band</i>	- - - - -	Frank Erickson
<i>Boston Commandery</i>	- - - - -	Carter

**THE AUDIENCE** is requested to remain seated until those in academic dress have left the auditorium.

## *Candidates for Commissions*

Subject to the completion of all curriculum requirements at the close of the winter quarter, commissions will be presented as indicated on those listed below and upon such others as may meet the requirements for Reserve Officers in the Armed Services.

### DEPARTMENT OF MILITARY SCIENCE AND TACTICS

#### **Second Lieutenant, Army Intelligence Corps**

John W. Schweitzer, St. Paul

#### **Second Lieutenant, Artillery**

Richard L. Hilliker, Madison, Wis.

#### **Second Lieutenant, Medical Service Corps**

Arnold E. Schribman, St. Paul

#### **Second Lieutenant, Transportation Corps**

DuWayne R. Kasma, Forest Lake

### DEPARTMENT OF AIR SCIENCE

#### **Second Lieutenant, USAF Reserve**

Patrick J. Gaffney, Minneapolis

# *Candidates for Graduation*

Subject to the completion of all curriculum requirements at the close of the winter quarter, degrees will be conferred as indicated on those listed below and upon such others as may meet the graduation requirements.

## GENERAL EXTENSION DIVISION

### Accounting Certificate

Richard Eugene Schroeder, St. Paul

### Business Administration Certificate

Leon George Bougie, St. Paul

Harvey Edgar Webb, Madison, Wis.

Laurence Anthony Hildreth, Minneapolis

### General Engineering Certificate

John Louis Scheurich, Excelsior

## GENERAL COLLEGE

### Associate in Arts

Edward Michael Abramson, St. Paul

Stuart Ehrlich, St. Paul

Richard Joseph Albrecht, St. Paul

Dale Allen Elstad, Minneapolis

Ann Gail Allison, Minneapolis

Bruce Melker Engstrand, Minneapolis

Bruce Frederick Bacon, Anoka

Thomas Eugene Field, Minneapolis

William Duane Barnes, Mora

Robert Turner Ford, Bloomington

John Arthur Berge, Minneapolis

Gregory T. Frantzen, St. Paul

Richard Henry Blum, Minneapolis

Bradford Russell Frisk, Minneapolis

Richard Herbert Boogren, St. Paul

Keith Ray Gage, Minneapolis

Gary Lee Buesgens, Minneapolis

David Dexter Getsch, Edina

Gordon Allen Buesgens, Minneapolis

Calvin Dean Glockzin, Grey Eagle

Gordon Francis Campbell, St. Paul

Thomas Gregory Goduto, St. Paul

Lawrence Lowell Carlson, Minneapolis

James Robert Goodrich, Champlin

Rurick Daniel Carlson, Minneapolis

Jon Philip Gray, Minneapolis

John Raymond Chudek, Columbia Heights

William Joseph Green, New Ulm

Nathan Allen Cobb, Jr., Mound

Gary Kenneth Gustafson, Excelsior

Roger Roy Davidson, Minneapolis

Paul Wayne Hagemester, Dodge Center

Vernon Alfred Haglund, Minneapolis  
 Leslie Ann Hanson, Minneapolis  
 Phyllis Ann Harris, Wayzata  
 Robert Edward Helwig, South St. Paul  
 Gordon Russell Hemming, St. Paul  
 John Otto Hildebrandt, Hastings  
 William George Hogg, New Ulm  
 David John Idstrom, Minneapolis  
 Royal Conrad Johnson, Minneapolis  
 David Ralph Jongeward, Crystal  
 Darlene Marie Karvonen, Minneapolis  
 Craig Benson Kaul, South St. Paul  
 John Leonard Kromhout, St. Paul  
 William Augustus LaCore, St. Paul  
 Lawrence Henry Langer, St. Paul  
 Michael Gregory Langer, St. Paul  
 Edward Joseph Lanz, St. Paul  
 Douglass Peter Joel Larson, Minneapolis  
 John Kevil Lau, Minneapolis  
 Myrnalee Levitan, St. Paul  
 Dale Allen Lindstrom, Minneapolis  
 Michael Lawrence Livingston, Minneapolis  
 Arden Lowell Lundquist, Minneapolis  
 Gary Keith Mayer, Minneapolis  
 Terrence John McLean, Dayton  
 Alexander Hamilton Metcalfe, Minneapolis  
 Donald Reinhold Miller, Minneapolis  
 John C. Mittelstaedt, St. Louis Park  
 Donald Lawrence Montgomery, St. Paul  
 Richard Warren Moreus, Minneapolis  
 Robert Louis Morin, Minneapolis  
 Gerald Herbert Nord, Minneapolis  
 Donald Kay Olson, Minneapolis  
 Warren Howard Peterson, Minneapolis  
 Allen Junior Pinnix, St. Paul  
 Bruce Alfred Potthoff, St. Paul  
 David Marvin Prass, Minneapolis  
 John Vincent Rimarcik, Minneapolis  
 James Burton Ringbloom, Minneapolis  
 Martin James Rosen, Minneapolis  
 Velma Joy Rydholm, St. Louis Park  
 Peter John Sarafolean, Jr., South St. Paul  
 Jack Bernard Skala, Minneapolis  
 John Raymond Skarda, St. Paul  
 Anthony Clifton Skjold, Minneapolis  
 Frank Smisek, Jr., Minneapolis  
 Barry L. Snyder, Hopkins  
 David Orton Soderholm, Minneapolis  
 Jerome John Stiffler, South St. Paul  
 Judith Helen Sundeen, Minneapolis  
 David Elwood Tabis, Minneapolis  
 Edward Joseph Ulmaniec, Jr., Minneapolis  
 Norbert George Ulmen, Mankato  
 William B. Van Dusen, Minneapolis  
 James Michael Warren, St. Paul  
 Kenneth J. Washick, West St. Paul  
 James Albert Williamson, Bloomington  
 Dale Franklin Winch, Anoka  
 Juris Andris Zankevics, Minneapolis  
 Joseph Henry Zimlick, St. Paul

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

Jeanette Ruth Anderson, Minneapolis  
 Merle Alan Cummings, Minneapolis  
 Nancy Lee Dorr, Minneapolis  
 Linda Carol Heine, St. Paul  
 Marilyn Jean Hooper, St. Paul  
 Constance Irene Hugg, Lancaster  
 Marguerite Lucille Jorgenson, Plummer  
 Woodbury Allen Palmen, Wabasha  
 Janis Terry Saltzman, Minneapolis  
 Karen Rochelle Tesler, Duluth  
 Barry Walter Wold, Robbinsdale

## Bachelor of Arts

- Leo Duane Abbott, Maple Plain,*  
 CUM LAUDE  
*Yossef Aelony, Minneapolis, MAGNA*  
 CUM LAUDE  
*Pauline Ann Alberg, Alexandria*  
*Allen Milton Anderson, Minneapolis*  
*Gregory John Arko, Virginia*  
*Peter Deane Army, St. Paul*  
*Robert Gillman Atwood, Edina*  
*Matthew Posnick Baskin, Minne-*  
*apolis*  
*Karl Warner Beaty, Grand Rapids*  
*Barbara J. Beck, Minneapolis*  
*Richard D. Berens, Rochester*  
*Wilton John Berger, Winona*  
*William John Bergstrom, Minneapolis*  
*Clinton Frank Bliss, Minneapolis*  
*Peter James Boardman, St. Paul*  
*Earl Allen Bogen, Glenwood, CUM*  
 LAUDE  
*Rachel Ann Bonney, St. Paul, CUM*  
 LAUDE  
*Betty L. Hoffard Bourne, St. Paul,*  
 MAGNA CUM LAUDE  
*Robert Edward Burt, Duluth*  
*Rita Mae Cawley, Waseca, MAGNA*  
 CUM LAUDE  
*Vergie Marie Cederberg, Barrett*  
*Roger Gerald Christenson, St. Paul*  
*Kenneth Elmer Clingman, St. Paul*  
*John Paul Clinton, Minneapolis*  
*Roger Cook, Grand Marais*  
*Ronald Gordon Cornwell, Minne-*  
*apolis*  
*Le Roy Adolph Dahl, Brainerd*  
*Patricia Ann Dahlstrom, Minneapolis,*  
 MAGNA CUM LAUDE  
*Laura Jane Davies, Storden*  
*Darrell Charles De Villiers, Jr.,*  
 Minneapolis  
*Muriel Loretta Dieteman, Minneapolis*  
*Theola May DuBois, St. Paul*  
*John Charles Duck, St. Louis Park*  
*Kenneth Robert Ellis, Minneapolis*  
*David Gene Engelbret, Hopkins*  
*Richard Lawrence Engen, Hopkins*  
*Dale Lamont Epland, Minneapolis*  
*David Robert Evans, Minneapolis*  
*Carol Meyer Filipczak, Wayzata*  
*Brenda L. Baumann Flynn, Winona*  
*Dan Ray Fox, Minneapolis*  
*Nancy Judd Frederiksen, Winona,*  
 MAGNA CUM LAUDE  
*Eva Anna Kaslova Fritz, Prague,*  
 CZECHOSLOVAKIA, CUM LAUDE  
*John Frederick Gardner, Edina*  
*Frederick Eugene Gilbert, Minne-*  
*apolis, CUM LAUDE*  
*Thomas Allan Gordon, St. Louis Park*  
*Norman K. Gurstel, St. Louis Park*  
*Harold Albert Hagen, Wayzata*  
*Ruth Karen Hammar, Minneapolis,*  
 CUM LAUDE  
*Jerry Jake Hanenburg, Mora*  
*Harvey Henry Havir, Minneapolis*  
*Dale Lewis Heffron, St. Paul*  
*William John Hiebert, Mountain Lake*  
*Bradford Thomas Hoffmann, St. Paul*  
*LaVonne Rhea Sandeen Howley,*  
 Minneapolis  
*Barbara Jean Hursh, St. Paul, MAGNA*  
 CUM LAUDE  
*Roger Paul Husemoller, Austin*  
*Janice Diane James, Marshall*  
*George Marvin Johnson, Cloquet*  
*Jerome Gordon Johnson, International*  
 Falls  
*Thomas Stuart Kalbrener, Cloquet*  
*Bruce Keenan Ketola, International*  
 Falls  
*Nancy Conner Klein, Pittsburgh, Pa.,*  
 CUM LAUDE  
*Robert Kent Knowlton, Austin*  
*Judy Mary Koll, Winona, CUM LAUDE*  
*Suzanne Margaret Kuehn, Minne-*  
*apolis*  
*Louise Brunson La Londe, Minne-*  
*apolis*  
*Dean Richard Larsen, Minneapolis*  
*William Anker Larsen, Minneapolis*  
*Brons Michael Larson, Minneapolis*  
*David Burton Larson, Minneapolis*  
*Earl Raymond Larson, Minneapolis*  
*Hazel Lodmill Larson, Minneapolis,*  
 CUM LAUDE  
*John Lee Lavalier, Robbinsdale*

Dennis John Leary, St. Paul  
 Bruce Stewart Levin, St. Paul  
 David Harrison Lund, Mankato  
 Norma Caldwell Madsen, Minneapolis  
 Glenn Christian Mc Allister, Minneapolis  
 John Field McCaffrey, Minneapolis  
 Kathleen Mary Mc Cully, St. Paul  
 John Peter Metzдорff, New Albin,  
 Iowa  
*Kathleen Shane Michels, St. Paul,*  
 MAGNA CUM LAUDE  
 John Campbell Mithun, Wayzata  
 Ian Clark Modelevsky, St. Paul  
 Richard Lee Moore, Minneapolis  
*Joseph Wood Moyle, Excelsior, cum*  
 LAUDE  
 Marion Namenwirth, New York, N.Y.  
 Sharon Elaine Nelson, St. Paul  
*Judith Ann Nemeec, Minneapolis,*  
 CUM LAUDE  
 Benhart Earl Niemi, Minneapolis  
 Pearl Mitsuko Nishioka, Hakalau,  
 Hawaii  
 Thomas Richard Osberg, St. Paul  
 Jerrold Edward Patterson, St. Paul  
 Thomas Lloyd Peterson, Minneapolis  
*Ferdinand Joseph Plourde, Minne-*  
*apolis, cum LAUDE*  
 James Bruce Regan, St. Paul  
 Harry Wolfe Rocklin, Minneapolis  
 Gary Thomas Ronning, Minneapolis  
 Anton Wheeler Rosenlund, Clinton  
*John Michael Roue, Fosston, MAGNA*  
 CUM LAUDE  
 Thomas Gerald Schaedler, St. Louis  
 Park

Susan Gail Scheiner, Minneapolis  
 John Mark Schipke, Minneapolis  
 John Michael Schmidt, Hutchinson  
 Arnold E. Schribman, St. Paul  
 Donna Marie Jenia Schulberg,  
 Virginia  
 John William Schweitzer, St. Paul  
 Ellen Carole Sigdahl, Litchfield  
 Roberta Lee Silverstein, Chicago, Ill.  
 Douglas Edgar Sinclair, Le Sueur  
 Clarice Mayonne Skaug, Clarkfield  
 Eileen Ann Spande, Minneapolis  
 Charles Ray Stedman, Williston, N.D.  
 Barbara Joan Swanson, Minneapolis  
 Willard Norton Swanson, Jr., Minne-  
 apolis  
 Betsey Jones Tollefson, Mabel  
*Patricia Marie Gawboy Turner, Ely,*  
 MAGNA CUM LAUDE  
 Peter E. Van Zanten, Jr., Minneapolis  
*Kay Marie Vine, Minneapolis, MAGNA*  
 CUM LAUDE  
 David William Wagner, St. Paul  
 David Sand Warden, A.A., Minne-  
 apolis  
 Bruce Andrew Warmuth, Minneapolis  
*Jeanne Elizabeth Wasson, Alexandria,*  
 CUM LAUDE  
 Carolyn Rose Weir, Excelsior  
 William Warren Wennen, Virginia  
 John Curtis White, Ruthton  
 David Donald Wiggins, Minneapolis  
*Matt Theodore Wikstrom, Minne-*  
*apolis, cum LAUDE*  
 James Jerome Williams, Robbinsdale

## UNIVERSITY COLLEGE

### Bachelor of Arts

Mary Catherine Jeske, St. Paul  
 Donald Paul Klenzman, Minneapolis

Marjorie Eileen Meaney, A.A.,  
 Mahtomedi

### Bachelor of Science

Howard Thomas Orr, Jr., Minneapolis

# INSTITUTE OF TECHNOLOGY

## Bachelor of Science

Henry Raymond Radosевич, Minneapolis

Jon La Folet Schasker, Elbow Lake

## Bachelor of Agricultural Engineering

George Henry Carlson, Cambridge  
David Vernon Nelson, Pelican Rapids

James Arthur Reese, Marshall

## Bachelor of Architecture

Mario Abraham Averbuj, Santa Fe, Argentina  
Richard Elliot Cottle, B.A., St. Paul,  
WITH DISTINCTION  
Bruce Peter Larson, B.A., St. Paul

Michael Rounds Metcalf, Wisconsin Rapids, Wis.  
Jon Robert Redmond, Green Bay, Wis.

## Bachelor of Chemistry

Robert John Cedergren, Delano, WITH DISTINCTION  
William Adolph Cordes, West St. Paul

Roger Douglas Johnson, St. Paul  
Roger William Leinen, Kinbrae

## Bachelor of Civil Engineering

Robert William Cheatham, Jr., St. Paul  
Alden Grant Christianson, Pelican Rapids  
Richard Scott Dutcher, Minneapolis  
Gary Lee Erickson, Westbrook  
Glenn Lowell Evavold, Battle Lake,  
WITH DISTINCTION  
Lawrence Richard Fenske, Bemidji,  
WITH DISTINCTION  
James William Fischer, St. Paul  
David Edward Jankowski, South St. Paul

DuWayne Raymond Kasma, St. Paul  
Wayne Richard Long, White Bear Lake, WITH DISTINCTION  
Calvin Marjamaa, Menahga  
Frederic Floyd McConnell, St. Cloud  
James Clinton Olson, Granite Falls  
William H. Rabe, Jr., Minneapolis  
William Vernon Tiemens, Motley  
Lyle Thomas Tomlin, Duluth  
Lynn Albert Winter, Detroit Lakes

## Bachelor of Electrical Engineering

Richard Ray Cheeseman II, Minneapolis

John Neill Crow, St. Paul

## Bachelor of Geological Engineering

John Paul Bricher, River Falls, Wis.

Robert Jerome Porthan, Ely

## Bachelor of Mechanical Engineering

Jerry Frank Andrs, Minneapolis  
*Kenneth Dwight Barnes, St. Paul,*

WITH HIGH DISTINCTION

John Favero, Minneapolis  
Richard Gordon Lindinan, Minneapolis  
Harold Eugene Manthey, Newport  
Ronald Fred Mattson, Hibbing  
Wendell Ronald McKibben,  
Rochester

John Godfrey McMillan, Minneapolis  
Thomas Lyle Murnan, Fairfax  
Wallace Wayne Parmenter, St. Paul  
Norman Henry Sunness, St. Paul  
Francis Gerhard Torborg, Richmond  
Richard Earle Tweten, Hibbing  
Baruch Balfour Weissman, Minneapolis

## Bachelor of Mining Engineering

William Thomas Boies, Lakefield  
Allan Douglas Hager, Gibbon

Thomas Joseph Sedor, Cloquet

## Bachelor of Physics

*Glenn Stanley Ballard, White Bear Lake, WITH DISTINCTION*

## COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

### Bachelor of Science

Thomas Ronald Aufenthie, Redwood Falls, Forestry  
Robert Henry Bartz, St. Paul, Forestry  
Norman Dale Beckman, A.A., Reading, Agriculture  
*Charles Michael Berigan, Minneapolis, Agriculture, WITH DISTINCTION*  
James John Dee, Rochester, Agriculture  
*George Frederick Derscheid, Kenyon, Agriculture, WITH DISTINCTION*  
Dale LeRoy Dinger, Rothsay, Agriculture

*Wesley Winfred Ebert, Osseo, Agriculture, WITH DISTINCTION*  
*David Loren Eggen, Minneapolis, Forestry, WITH DISTINCTION*  
*David Allen Etnier, Watertown, Agriculture, WITH DISTINCTION*  
*Walter Ronald Fehr, St. Paul, Agriculture, WITH HIGH DISTINCTION*  
James Lyle Freeman, Fairmont, Agriculture  
Richard Edwin Goff, Minneapolis, Agriculture  
Gerald Ray Haasl, Park Falls, Wis., Forestry

- Keith Jerome Halverson, Beaver Creek, Agriculture  
 Warren Chester Hanson, Benson, Agriculture  
 Richard E. Hayes, Mountain Lake, Agriculture  
 Gary Lee Heidebrink, Rushmore, Agriculture  
 Betty Joan Hellberg, Brainerd, Home Economics  
 Paul Randolph Henry, Jr., Sedgwick, Kan., Agriculture  
 Donald Lawrence Hess, Jr., Marshall, Agriculture  
 Richard Leigh Hilliker, Madison, Wis., Forestry, WITH HIGH DISTINCTION  
 Warren Alexander Illi, St. Paul, Forestry  
 Graham Russell Johnson, St. Paul, Forestry  
 Marvin Lloyd Johnson, Minneapolis, Agriculture  
 John Calvin Kivi, Minneapolis, Agriculture  
 David Robert Moe, Minneapolis, Agriculture  
 Harrison Leon Morton, St. Paul, Forestry  
 Kenneth Edward Neeser, St. Cloud, Agriculture  
 Melvin Raymond Neyers, Gibbon, Agriculture, WITH DISTINCTION  
 Lores Ruth Nichols, Milaca, Home Economics  
 Darrel Lee Peterson, Fairmont, Agriculture  
 Noreen Fay Phillips, Eveleth, Home Economics  
 Harold Howard Rickert, Mountain Lake, Agriculture  
 William Lloyd Roberts, Lake Crystal, Agriculture  
 Camille Kay Mattson Wendland, Vernon Center, Home Economics

## COLLEGE OF EDUCATION

### Bachelor of Science

- Nancy Ellen Almquist, Gary, Ind., WITH HIGH DISTINCTION  
 Dean Alfred Anderson, St. Paul  
 Marlys Ann Marie Anderson, Minneapolis  
 Mary Alice Anttila, Crosby  
 Karen Mary Aunan, Duluth  
 Mervyn Owen Bergman, Cook, WITH DISTINCTION  
 Philip Hillman Black, A.A. Minneapolis  
 Martha Lynn Urseth Brown, Minneapolis, WITH DISTINCTION  
 Rodney Sheldon Brutlag, Minneapolis  
 Frederick Peter Burke, Lakefield  
 Frances Fleming Chapin, B.A. cum laude, St. Paul  
 James Norman Christopherson, St. Louis Park  
 Richard Thomas Coughlin, A.A., Minneapolis  
 Edward Richard Dunn, Delano  
 Perl Lawrence Dunn, B.A., St. Paul  
 Barbara Martin Eggen, Minneapolis  
 Bonnie Barbara Ekbohm, Aitkin  
 Ann McGrath Fiedler, B.B.A., Minneapolis  
 Patrick Jean Gaffney, Minneapolis  
 Helen Catherine Galvin, Waverly  
 Elaine Sylvia Geretz, Minneapolis, WITH DISTINCTION  
 JoAnne Dee Gleason, Dundee  
 Nancy Gilson Gollnick, Wautoma, Wis., WITH DISTINCTION  
 Robert Romaine Griggas, Rockford, Ill.  
 William Richard Guidarelli, Buhl  
 Michael Anton Halleen, Lake City, WITH DISTINCTION  
 Lowell Eugene Hammer, Anoka  
 Marlow Douglas Hanson, Minneapolis

Salome Ann Jonas Heurung, St. Cloud  
 Gary Earl Holliday, Worthington  
 Yeo Shin Hong, Seoul, Korea, WITH DISTINCTION\*

Robert James Hulet, B.A., Austin  
 Lois Elizabeth Jensen, Northfield  
 Audrey Valoise Johnson, A.A., Otisco  
 Sandra Dell Johnson, Minneapolis  
 William Joseph Kaiser, A.A., St. Paul  
 Marie Ann Karlson, Minneapolis, WITH DISTINCTION

Jeanne Helen Koivula, Minneapolis  
 Karen Virginia Kulenkamp, St. Paul  
 Karen Mildred Lading, Pine Island  
 Theodore Wayne Landburg, B.A., Erhard

Franklin Bruce Lash, Minneapolis  
 Marilyn Dorthea Laukka, St. Paul  
 Helen Frances Levin, Danville, Ill., WITH DISTINCTION

Leonard Walter Levine, St. Paul  
 Robert Guy Lind, Cambridge  
 Jean Ellie Lundheim, Coon Rapids, WITH DISTINCTION

Lila Marie Mann, Minneapolis  
 Beverly Jane McElmurry, Zion, Ill.\*  
 Sara Nyvall McKeen, Minneapolis  
 Ronald Warren Mitchell, St. Paul  
 Frances Bernadette Moos, St. Paul, WITH DISTINCTION

Margaret Mae Morgan, Harrison, Neb., WITH DISTINCTION

Wendel LeRoy Nies, Minneapolis  
 Robert LeRoy Nordstrom, Minneapolis

Helen Cecilia Oczak, White Bear Lake  
 Jovenia Louise Olson, Alexandria  
 Judith Kay Olson, Alexandria, WITH DISTINCTION

Rosanne Bellows Olson, B.A., Orchard Gardens  
 Patrick John O'Rourke, Foley  
 Nan Paige Pearson, Mound  
 John Sether Peterson, B.A., Minneapolis

Stewart Edward Peterson, St. Paul  
 Janet Marian Pletsch, South St. Paul, WITH DISTINCTION

Ruth Martha Pojcky, Detroit, Mich.\*  
 Ralph Benjamin Pomije, New Prague, WITH DISTINCTION

Laureen Rae Pomish, Iron River, Wis.  
 Joyce Elaine Prickett, St. Paul  
 Phillip Ravitzky, St. Paul  
 Nancy Record, St. Paul  
 Lorean Annette Redwing, Mabel, WITH DISTINCTION

Karen Lee Rosell, Minneapolis  
 Sharlyn Elizabeth Russell, Menasha, Wis.

Lesley Ann Dahl Rylander, Brainerd  
 Karen Laurel Sabo, Scarville, Iowa  
 Donald Paul Sahlstrand, Minneapolis  
 Pauline K. Schmookler, B.A., M.A., Roseville

Helen V. Noon Schoenheider, Robbinsdale  
 Annalee Smith, Minneapolis  
 Dorothy Lee Speer, St. Paul  
 Ruth M. Stein, B.A., Minneapolis  
 Anstes N. Tweito, Spring Grove, WITH DISTINCTION\*

John Robert Vergoth, A.A., Eveleth  
 Mary Ruth Wegner, Minneapolis  
 Karen Lee Ashton Wilson, Preston  
 Patricia Ann Winchell, South St. Paul, WITH DISTINCTION

## Master of Education

James Richard Kough, B.S., Hastings

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\* Nursing Education Curriculum

# COLLEGE OF EDUCATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

## Bachelor of Science

- Karen Joyce Edstrom Belleful, Floodwood, Home Economics Education  
Donna Annette Emmert, Cyrus, Home Economics Education  
William Darrell Fischer, Verndale, Agricultural Education  
Raymond LeRoy Grundmeier, Northome, Agricultural Education  
Deva Anne Dalke Hess, Fairfax, Home Economics Education  
Leslie Grant Horsager, Verndale, Agricultural Education  
Rex Clair Ingram, Kimball, Agricultural Education  
Roberta Mae Jackson, Hibbing, Home Economics Education  
Mary Josephine Johnson, South St. Paul, Home Economics Education  
Paul Donovan Johnson, Evansville, Agricultural Education  
John Christian Loken, Garfield, Agricultural Education  
Reta Mae McKeag, Cannon Falls, Home Economics Education  
Gene Allan Monson, Lake Mills, Iowa, Agricultural Education  
Sondra Marie Armstrong Sether, Jeffers, Home Economics Education  
Phillip Aaron Toedter, Staples, Agricultural Education  
Gordon Kenneth Tritz, Dumont, Agricultural Education, WITH DISTINCTION  
Virgil Orville Wendt, Springfield, Agricultural Education  
Edward Samuel Wirta, Embarrass, Agricultural Education, WITH DISTINCTION

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

- J. Roger Anderson, Minneapolis  
Roger Erwin Atwood, Hopkins  
Donald Russell Backstrom, B.S.L., Minneapolis  
Curtis Ray Deloney, St. Paul  
James Dale Durand, Amery, Wis.  
Roger E. Earle, St. Paul, WITH DISTINCTION  
Charles Franklin Gill, Fridley  
David Duane Gillham, A.A., Minneapolis  
David Neil Goodwin, Robbinsdale  
Richard J. Hentges, Sleepy Eye  
Salyards Hofmeister, Wayzata  
Harris Eugene Hubers, Milaca  
Douglas Kay Johnston, A.A., St. Paul  
Johan Gustav Kaldager, Oslo, Norway  
Elliot Samuel Kaplan, St. Paul  
Charles Edwin Kirk, Jr., St. Paul  
Larry Ray Lindeberg, Minneapolis  
Thomas George Metzger, Hastings  
Roger Thomas Murnane, Minneapolis  
Merton Allen Murphy, Bemidji  
Daniel V. Noble, St. Paul, WITH DISTINCTION  
Donald Francis Nusbaum, Owatonna  
Frederick Lee Ottem, Red Wing  
Michael Allan Posnansky, St. Paul  
Robert Edward Raab, St. Paul  
Marshall Seymour Rose, Minneapolis

Everett Sherwin Stendahl, Minneapolis  
Richard Alonzo Stiles, Bloomington  
Donald LeRoy Stowe, Minneapolis

Donald Bernard Swenson, Bemidji  
*Gilbert Avery Wilson, Minneapolis,*  
WITH DISTINCTION  
Aivars Zakovics, Minneapolis

## **Bachelor of Science in Business**

David John Bernier, Minneapolis  
Edwin Lindsley Bidwell III, B.C.E.,  
Minneapolis  
Jerrold Franklin Bloom, Minneapolis  
William Michael Bohmer, St. Cloud  
Walter Edwin Dahl, A.L.A., St. Paul  
Robert Edwin Esser, Minneapolis  
Francis Craig Jilk, Winona  
Kenneth Wayne Johnson, St. Paul  
Robert Wendell Johnson, Minneapolis  
Kenneth John Kublie, West Concord  
Andrew Cyril Meuwissen, Cologne  
Claude Allen Moldenhauer, Shakopee

Leland Durwood Nelson, Minneapolis  
Ronald Duane Neus, Minneapolis  
David Alexander Opgrand, Halstad  
Louis Carl Petsolt, Minneapolis  
Edwin Henry Raeker, Freeport  
Robert William Rayppy, Minneapolis  
*Arnold Edward Rolfsrud, Minneapolis,*  
WITH DISTINCTION  
Edward John Ruzic, A.A., Ely  
Kent Gregory Smith, Waseca  
Richard Charles Smith, Minneapolis  
Gilbert Sidney Whitson, Albert Lea  
Michael Joseph Wons, St. Paul

## **SCHOOL OF BUSINESS ADMINISTRATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE**

### **Bachelor of Agricultural Business Administration**

Charles Edward Pogatchnik, St. Cloud    Maurice Charles Tracy, International  
Falls

## **LAW SCHOOL**

### **Bachelor of Science in Law**

Robert John Tweedy, Minneapolis

### **Bachelor of Laws**

Donald Russell Backstrom, B.S.L.,  
Minneapolis  
Donald Lyman Bush, B.A., Hopkins  
John Nelson Claeson, B.A., Minne-  
apolis

James Bruce Hartigan, B.S.L., Minne-  
apolis  
Elliot Samuel Kaplan, St. Paul  
Lyle Robert Morris, B.A., Hopkins

Edward Dennis Murphy, B.B.A., St.  
Paul  
Maurice Joseph Nelson, B.A., Brainerd  
Byron Donn Olsen, B.A., St. Paul

Royce Norman Sanner, B.S.,  
Lancaster, CUM LAUDE  
Robert John Tweedy, Minneapolis

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science in Nursing\*

Sondra Jeanne Anderson, Minneapolis  
Donella La Moyne Berry, St. Paul  
Mary Lucinda Concidine, Wabasha  
Barbara Ann Elmquist, Robbinsdale  
Joan Barton Erickson, Bird Island  
*Jean Haugom Foote, Portland, N.D.,*  
WITH DISTINCTION  
*Rita Sue Goldfarb, St. Paul,* WITH  
DISTINCTION  
Judith Frances Greenwell, St. Paul  
Audrey Marie Grier, St. Paul  
Caroline Hendrickson, Minneapolis  
*LaVonne Risty Herbert, Balaton,*  
WITH HIGH DISTINCTION  
*Karen Seeger Holmes, South St. Paul,*  
WITH HIGH DISTINCTION  
Barbara Alice Howland, Winthrop  
*Katherine Camille Jacobson, Denni-*  
*son,* WITH DISTINCTION  
Susan Marlene Johnson, A.A.,  
Rockford, Ill.  
Bea Marilyn Jones, Pipestone  
*Raleigh Minette Kané, Minneapolis,*  
WITH DISTINCTION  
Sharon Rosalee Karlen, Austin  
Jane Hunsaker King, Le Sueur  
Gwendolyn Thorpe Kline, A.A.,  
Minneapolis  
Ardu Alma Martha Kluth, A.L.A.,  
Renville  
Sandra Kaye Kolden, Roseglen, N.D.  
Delphie Jane Lindstrom, Benson  
*Carol Jean Lyden, Grand Rapids,*  
WITH DISTINCTION  
*Carol Jean Madsen, Cedar Falls, Iowa,*  
WITH HIGH DISTINCTION  
*Darlene Alice Maeder, Henderson,*  
WITH HIGH DISTINCTION  
Delores May, Minneapolis  
Carole Anne Nordberg, Minneapolis  
*Barbara Jean Olson, Hibbing,* WITH  
DISTINCTION  
Sharron Dee O'Neil, Baudette  
*Elizabeth Ann Rost, Minneapolis,*  
WITH DISTINCTION  
*Elaine Marjorie Ruesch, Medford,*  
Wis., WITH DISTINCTION  
Patricia Joy Sanders, Hibbing  
Dorine Wessman Seaquist, Minne-  
apolis, WITH DISTINCTION  
Joanne Olive Sletten, Winthrop  
*Louanne Elizabeth Snyder, Havre,*  
*Mont.,* WITH DISTINCTION  
*Justine Gabrielli Speer, Minneapolis,*  
WITH DISTINCTION  
*Margaret Carman Tegenfeldt, Minne-*  
*apolis,* WITH HIGH DISTINCTION  
Bunice Thibodeaux, Breaux Bridge,  
La.  
Gloria Van Essen, B.A., Brainerd  
JoAnn Gayle Vigen, Ada  
*Andrea Wells, Jackson,* WITH HIGH  
DISTINCTION  
Anne Elizabeth Wiberg, Stillwater  
Gloria Jane Wiens, A.A., Minneapolis  
Marlys Jean Wredberg, Minneapolis  
Marcia Diane Zabel, St. Louis Park  
Fern Rachel Zahlen, Minneapolis

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\* These degrees are conferred subject to the satisfactory completion of nursing practice prior to June 10, 1961.

## Bachelor of Science in Nursing Administration

Merriam Ruth Adams, Minneapolis,  
WITH DISTINCTION  
J. Denise Denson, Albert Lea

Susanne Hackett, Waseca, WITH  
DISTINCTION  
Norma Barbara Nordstrom, Minne-  
apolis

## Bachelor of Science

Gretta Romona Jefferson, Minne-  
apolis, Public Health Nursing  
Ellen Mary Kronschnabel, St. Paul,  
Public Health Nursing

Anna Marie Lanz, St. Paul, Public  
Health Nursing

## GRADUATE SCHOOL

### Master of Arts

Glenn Myron Anderson, Redwood  
Falls

B.S. '49, University of Minnesota. Field of  
Concentration: Agricultural Education.

Joanne Anklam, Minneapolis

B.A. '57, University of Arizona. Field of Con-  
centration: Library Science.

Raymond Barros, Valparaiso, Chile

Graduate '53, Faculté de Theologie St. Albert  
de Louvain. Field of Concentration: Educa-  
tional Administration.

Carole Okun Brown, Minneapolis

B.A. *summa cum laude* '56, University of  
Minnesota. Field of Concentration: English.

Ralph Angus Brown, St. Paul

B.S. '56, University of Minnesota. Field of  
Concentration: Art Education.

Sidney Lambert Brown, Minne-  
apolis

B.A. '54, University of Minnesota. Field of  
Concentration: Political Science.

Richard Lee Carson, Libertyville, Ill.

B.A. '58, Indiana University. Major: Jour-  
nalism. Minor: Economics. Thesis: An Ex-  
position of and Investigation Into Methods of  
Writing in the "Intimate Frame of Refer-  
ence."

Ronald Sidney Christenson, Chip-  
pewa Falls, Wis.

B.S. *magna cum laude* '59, Wisconsin State  
College (Eau Claire). Major: Political Sci-  
ence. Minor: Philosophy. Thesis: The Objec-  
tive Moral Order in Walter Lippmann's Polit-  
ical Thought.

Carol Elaine Cook, Boylston, Mass.

B.S. '51, Juniata College. Field of Concen-  
tation: Child Development and Welfare.

Nancy Louise Cook, Wausau, Wis.

B.S. with distinction '52, University of Minne-  
sota. Field of Concentration: Child Develop-  
ment and Welfare.

Ann Reilly Cornog, East Lansing,  
Mich.

B.A. '52, Antioch College. Field of Concen-  
tation: Psychology.

J. Randolph Cox, Albert Lea

B.A. '59, St. Olaf College. Field of Concen-  
tation: Library Science.

Bernard Robert Crystal, St. Louis Park

B.A. *magna cum laude* '59, University of Min-  
nesota. Field of Concentration: Library Sci-  
ence.

Warren Leslie Dalen, Long Lake

B.S. '50, St. Cloud State College. Field of  
Concentration: Curriculum and Instruction.

- M. Claire Dunn, Minneapolis  
B.A. '59, University of Minnesota. Field of Concentration: Library Science.
- Eloise Redwine Fick, Excelsior  
B.A. in Ed. '38, University of Kentucky. Field of Concentration: French.
- John Raymond Flynn, St. Paul  
B.A. '53, Macalester College. Field of Concentration: Psychology.
- Jane Christensen Frazee, Minneapolis  
B.M. '58, University of Wisconsin. Field of Concentration: Music Education.
- William Arthur Gessner, Plainview  
B.S. '49, St. Cloud State College. Field of Concentration: Educational Administration.
- Duane George Googins, Anoka  
B.S. '59, University of Minnesota. Field of Concentration: Educational Psychology.
- Richard David Gretch, Glendive, Mont.  
B.S. '52, St. Cloud State College. Field of Concentration: Educational Psychology.
- Harold William Grudem, Long Prairie  
B.E. '39, Winona State College. Field of Concentration: Educational Administration.
- Dwight Warren Gunberg, Minneapolis  
B.S. '49, University of Minnesota. Field of Concentration: History.
- Douglas Procter Hatfield, Minneapolis  
B.S. with distinction '51, University of Minnesota. Field of Concentration: Speech and Theater Arts.
- Andrew Watson Hepburn, Duluth  
B.A. '59, University of Minnesota. Field of Concentration: Psychology.
- Carol Joan Quam Howitz, St. Paul  
B.A. '55, Concordia College (Moorhead). Field of Concentration: Education.
- Mary Lou Hull, Boulder, Colo.  
B.A. *magna cum laude* '56, Augustana College (Illinois). Field of Concentration: English.
- Lee Ann Laurene Irgens, Fergus Falls  
B.A. *summa cum laude* '57, St. Olaf College. Field of Concentration: Speech and Theater Arts.
- Elwood Lawrence Jacobsen, Foreston  
B.E.E. '56, B.A. '58, University of Minnesota. Field of Concentration: Comparative Literature.
- Wayne Bertrand Jennings, St. Paul  
B.S. '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Niels Wayne Jensen, Jackson  
B.S. '50, University of Minnesota. Field of Concentration: Education.
- Wanne Jay Joe, Wolly, Korea  
B.A. '59, Rutgers University. Field of Concentration: American Studies.
- Peder Jack Johnson, Duluth  
B.A. '58, University of Minnesota. Major: Child Development and Welfare. Minor: Psychology. Thesis: The Effects of Task Induced Stress Upon the Performance of High and Low Achievers Within a Restricted IQ Range.
- Edward Keckeisen, New Ulm  
B.S. '51, Gustavus Adolphus College. Field of Concentration: Educational Administration.
- Kwan Suk Kim, Seoul, Korea  
B.A. '59, Seoul National University. Major: Political Science. Minor: Economics. Thesis: The United Nations Promotion of Human Rights and the Domestic Jurisdiction of Sovereign States.
- James Arnold Lahti, Hibbing  
B.S. '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Irvin Myron Larson, Sauk Centre  
B.S. '55, Moorhead State College. Field of Concentration: Curriculum and Instruction.
- Delford Anton Mach, Plainfield, N.J.  
B.S. '53, University of Minnesota. Field of Concentration: Educational Psychology.
- Elaine Jane Maki, Aurora  
B.A. '59, University of Minnesota. Field of Concentration: Library Science.
- Wayne Clinton Muller, Minneapolis  
B.A. '53, Huron College. Field of Concentration: Political Science.

- Nina Seiglinde Neubeiser, St. Charles, Mo.  
B.A. '56, Cornell University. Field of Concentration: English.
- Daniel Jacob Nordgren, Jr., St. Paul  
B.S. '57, University of Minnesota. Field of Concentration: Educational Psychology.
- Ladislav Peter Novak, Levin, New Zealand  
Graduate '48, Charles University (Prague). Major: Physical Education. Minor: Anthropology. Thesis: Minimum Muscular Fitness of New Zealand Children Compared with Minimum Muscular Fitness of Children from Other Countries as Measured by the Kraus-Weber Test.
- Jeremy Gale Nyquist, Minneapolis  
B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Opal Irene Oleson, Hutchinson  
B.S. with distinction '52, University of Minnesota. Field of Concentration: Art Education.
- Karlis Lotars Ozolins, Riga, Latvia  
B.A. '51, Augsburg College. Major: Library Science. Minor: History. Thesis: A History of Augsburg Publishing House.
- Barry Lockwood Peterson, Virginia  
B.A. '59, University of Minnesota. Field of Concentration: Music.
- Peter Merle Probasco, Hillman  
B.S. '56, University of Minnesota. Field of Concentration: Agricultural Education.
- Paul Ralli, Minneapolis  
B.A. '58, University of Minnesota. Major: International Relations. Thesis: The Cyprus Question in the United Nations.
- Maximo Buenaventura Ramos, Jr., Quezon City, Philippines  
B.A. *cum laude* '58, University of the Philippines. Field of Concentration: English.
- James Edward Reidy, St. Paul  
B.A. '52, St. Ambrose College. Field of Concentration: English.
- Robert E. Ripley, Minneapolis  
B.A. '57, University of Minnesota. Field of Concentration: Educational Psychology.
- Calvin Herbert Ryder, Trempealeau, Wis.  
B.S. '52, Winona State College. Field of Concentration: Education.
- Dorothy Holmes Schultz, St. Paul  
B.A. '32, College of St. Catherine; M.A. '33, University of Minnesota. Field of Concentration: Library Science.
- Orville Norman Sell, Black Creek, Wis.  
B.E. '54, Wisconsin State College (Stevens Point). Field of Concentration: Curriculum and Instruction.
- Gur Deep Singh, Chandigarh, Punjab, India  
B.Sc. '47, B.T. '50, M.A. '52, M.Ed. '54, University of Punjab. Field of Concentration: Educational Administration.
- Jane Beck Smith, Minneapolis  
B.A. '52, Colorado State College of Education. Field of Concentration: Art Education.
- Don Ray Spurr, Albert Lea  
B.A. *cum laude* '57, University of Minnesota. Field of Concentration: Political Science.
- Josephine Ti-sheng Sun, Taiyuan, China  
B.A. '55, National Taiwan University. Field of Concentration: Library Science.
- Robert Owen Sweeney, Shakopee  
B.S. with high distinction '52, University of Minnesota. Field of Concentration: Educational Administration.
- William John Tema, Minneapolis  
B.S. '59, University of Minnesota. Field of Concentration: Library Science.
- Jogindar Singh Uppal, Chandigarh, India  
B.A. '50, M.A. '52, University of Punjab. Field of Concentration: Economics.
- Lucas VanHilst, Minneapolis  
Graduate '50, Middelbare Technical School. Major: Economics. Minor: Business Administration. Thesis: Contributions to Business Practices of Optimal Inventory Control.
- Helen Georgina Voll, South Bend, Ind.  
B.A. '48, Trinity College. Field of Concentration: English.

Raymond Clarence Wall, River Falls,  
Wis.

B.E. '33, Wisconsin State College (River  
Falls). Field of Concentration: Agricultural  
Education.

Josef Weidacher, Feistritz Drau,  
Austria

B.A. Equiv. '59, University of Vienna. Field  
of Concentration: English.

Betty Lou Bernice Kohnen Waszut,  
Minneapolis

B.S. with high distinction '55, University of  
Minnesota. Field of Concentration: Educa-  
tional Psychology.

Alyce Neihart Wilde, St. Paul

B.S. '55, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Ronald Craig Worsley, Minneapolis

B.S. '56, Moorhead State College. Field of  
Concentration: Speech and Theater Arts.

Lorraine Chun-Chieh Yen, Peiping,  
China

B.A. '57, National Taiwan University. Field  
of Concentration: English.

Shirley Ann Zack, St. Paul

B.B.A. '50, University of Minnesota. Field of  
Concentration: Library Science.

## Master of Arts in Public Administration

James Michael Banovetz, Duluth

B.A. *cum laude* '59, University of Minnesota.  
Field of Concentration: Public Administration.

Richard Theodore Gay, Duluth

B.A. '54, University of Minnesota. Major:  
Public Administration. Thesis: Law Enforce-  
ment in Suburban Ramsey County.

## Master of Business Administration

Manuel Solo Alba, Jaro, Iloilo City,  
Philippines

B.S.B.A. *cum laude* '57, University of the  
Philippines. Field of Concentration: Business  
Administration.

## Master of Forestry

David Austen King, Waconia

B.S. '54, University of Minnesota. Field of  
Concentration: Forestry.

## Master of Science

Patrick Robert Ahern, Albert Lea

B.S. with distinction '59, University of Minne-  
sota. Major: Mathematics. Minor: Physics.  
Thesis: Summability of Fourier's Series and  
the Gibbs Phenomenon.

Joginder Singh Ahluwalia, Punjab,  
India

Graduate '48, University of Bombay. Field of  
Concentration: Public Health.

Robert Wayne Blanchar, Fox Lake

B.A. '58, Macalester College. Major: Soils.  
Minor: Agricultural Biochemistry. Thesis:  
Evaluation of Concentrated Superphosphate  
and Diammonium Phosphate as Phosphorus  
Sources When Applied to Calcareous Soils of  
Minnesota.

Glen Allan Cotta, St. Louis, Mo.

B.A. '56, Drury College. Field of Concen-  
tration: Business Administration.

Melvin Ivon Dyer, Plummer, Idaho

B.S. '55, University of Idaho. Major: Zoology. Minor: Bacteriology. Thesis: Maintenance of *Paragonimus kellicotti*, Ward, and *Toxoplasma gondii*, Nicolle and Manceaux, Together in vitro.

Ben Earl Hallaway, Minneapolis

B.S. in Med. Tech. with high distinction '52, University of Minnesota. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Hydrogen Ion Equilibria of Myocardial Actin.

Guy Livingston Howe, Jr., Minneapolis

B.S.Agr. '50, University of Hawaii. Field of Concentration: Agronomy.

Bernard Thomas Johnson, Brainerd

B.Phys. '57, University of Minnesota. Major: Geophysics. Minor: Geology. Thesis: Interpretation of Total-Intensity Magnetic Field Data by Fourier Analysis.

Jerome Ervin Johnson, Whitehall, Wis.

B.S. '56, Wisconsin State College (River Falls). Field of Concentration: Agricultural Economics.

Olgerts Longins Karklins, Minneapolis

B.S. '57, Columbia University. Major: Geology. Minor: Geophysics. Thesis: Ordovician Bryozoa of Family Rhinidictyidae from the Decorah Shale Formation of Minnesota.

Ivan Dale Kittel, Newport

B.S. '52, Wisconsin State College (River Falls). Field of Concentration: Dairy Industries.

Paul Douglas Lane, Minneapolis

B.S. with distinction '58, University of Minnesota. Field of Concentration: Physics.

Huk Yong Ma, Seoul, Korea

M.D. '35, Seoul National University. Field of Concentration: Public Health.

Ian Alexander MacFarlane, Livermore, Calif.

B.A. '53, Butler University; M.A. '55, Yale University; B.A. '58, University of Minnesota. Field of Concentration: Physics.

Brita-Stina Nordenstedt, Umeå, Sweden

Graduate '52, Teacher Training College of Home Economics (Umeå, Sweden). Field of Concentration: Home Economics.

Lloyd Wyman Nystrom, Alvarado

B.S. with distinction '53, University of Minnesota. Field of Concentration: Agricultural Economics.

Gulam Mohiuddin Quraishi, India

B.Com. '56, M.Com. '58, Osmania University. Field of Concentration: Business Administration.

Kammula Ganga Raju, Eluru, Andhra, India

B.V.Sc. '57, University of Madras. Field of Concentration: Dairy Husbandry.

Keith Warren Sherper, Minneapolis

B.S. '57, University of Minnesota. Field of Concentration: Agricultural Economics.

Kenneth Howard Sherper, Minneapolis

B.S. '57, University of Minnesota. Field of Concentration: Agricultural Economics.

Tannie Stovall, Atlanta, Ga.

B.S. '57, Morehouse College. Major: Physics. Minor: Mathematics. Thesis: Multi-Crystal Detector for Use in the Image Plane of a 180 Degree Magnetic Spectrometer.

Dorothy Theresa Swanson, Frazee

B.A. '60, University of Minnesota. Field of Concentration: Library Science.

Myron Eugene Tumbleson, Sherburn

B.S. '58, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Reproductive Potential of *Cyperus esculentus* L.

## Master of Science in Agricultural Engineering

Robin Roy Grinnell, Minneapolis

B.S.Agr.Eng. '55, Purdue University. Major: Agricultural Engineering. Minor: Mathematics. Thesis: The Relationship of Several Methods of Determining the Moisture Content of Shelled Corn.

Roger Erle Machmeier, Minneapolis

B.B.A. '52, B.Ag.E. with distinction '52, University of Minnesota. Field of Concentration: Agricultural Engineering.

## Master of Science in Chemical Engineering

Clayton Ross Lagerquist, Wayzata

B.A. '55, Mankato State College. Major: Chemical Engineering. Minor: Mathematics. Thesis: Radiation Dosimetry.

Gopala Pillai Rajan, Chengannur,  
Kerala, India

B.Sc.(Hons.) '55, University of Madras. Field of Concentration: Chemical Engineering.

Robert Ernest Schindler, Seattle,  
Wash.

B.S. cum laude '59, University of Washington. Major: Chemical Engineering. Minor: Mathematics. Thesis: Mechanisms of Mixing of Miscible Liquids.

## Master of Science in Civil Engineering

Sze-Ting Chien, Hangchow, Chekiang,  
China

B.S. in Engr. '55, National Taiwan University. Field of Concentration: Civil Engineering.

Martin Eugene Hansen, Lake City

B.S. '59, University of Minnesota. Major: Civil Engineering (Structures). Minor: Civil Engineering (Soils Mechanics). Thesis: Influence of Gypsum to Water Ratio and Freezing and Thawing on the Strength of Gypsum Concrete.

Dahyabhai Ramdas Patel, Kavitha,  
Kaira, India

B.E.(Civil) '59, Baroda University. Field of Concentration: Civil Engineering.

Gobhuri Ranga Rao, Hyderabad, India

B.E.(Civil) '56, Osmania University. Field of Concentration: Civil Engineering.

Hanumantha Sanjeevi, Madras, India

B.E. '54, University of Madras. Field of Concentration: Civil Engineering.

Paparao Yarlagadda, Kakinada, India

B.E. '59, University of Mysore. Field of Concentration: Civil Engineering.

## Master of Science in Dentistry

Carl John Olson, Wayzata

B.S. '58, D.D.S. '58, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Volumetric Measurement of Root Canals.

Dean Richard Reynolds, West  
Concord

D.D.S. '54, University of Southern California. Major: Dentistry. Minor: Pathology. Thesis: Neurogenic Tumors of the Tongue.

## Master of Science in Electrical Engineering

William Douglas McNeil, Minneapolis

B.S. with distinction '57, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Photoconductivity in Sodium Chloride Crystals.

James William Ratz, Detroit Lakes

B.S. with high distinction '59, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Nonlinear Instrument Type Servomechanism.

## Master of Science in Mechanical Engineering

James Oliver Hcdeen, St. Paul

B.S. '59, University of Minnesota. Field of Concentration: Mechanical Engineering.

## Master of Science in Medicine

Louis Brown Matthews, Jr., Hanover, N.H.

B.S. '45, Tulane University; M.D. '49, University of Tennessee. Major: Medicine. Minor: Hematology. Thesis: The Study of Blood Dyscrasias with Radioisotopes of Iron and Chromium.

Donald Allen Sones, Rochester

B.S. '52, Northwestern University; M.D. '56, State University of Iowa. Major: Medicine. Minor: Physiology. Thesis: Effects of Chlorothiazide on Body Electrolytes in Animals.

Frank Edwin Roberts, Reno, Nev.

B.A. '50, M.D. '53, University of Southern California. Major: Medicine. Minor: Hematology. Thesis: The Anemia of Rheumatoid Arthritis Studied with Radioiron and Radiochromium.

## Master of Science in Metallurgical Engineering

Francis Kiyotsuna Kasai, Sapporo, Japan

B.S. in Engr. '53, Hokkaido University. Major: Metallurgical Engineering. Minor: Geology. Thesis: The Effect of Roasting on the Flotation Characteristics of Paint Rock and Associated Clay Minerals.

Robert Bruce Schluter, Minneapolis

B.S. '57, University of Minnesota. Major: Metallurgical Engineering. Minor: Chemical Engineering. Thesis: The Combustion Zone in the Iron Ore Sintering Process.

## Certificate of Specialist in Education

Charles Albert Samson, New Brighton

B.S. '54, Bemidji State College; M.A. '57, University of Minnesota. Field: Elementary School Administration.

## Doctor of Philosophy

Thomas Lee Avery, Gates, Tenn.

B.S. '56, University of Tennessee; M.S. '57, University of Minnesota. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: Investigations Associated with the Transplantation of Bovine Ova. Major Adviser: Prof. E. F. Graham.

John Warren Bystrom, Minneapolis

B.A. '43, M.A. '48, University of Minnesota. Major: Speech and Theater Arts. Minor: Political Science. Thesis: Senator George Norris and the Muscle Shoals Struggle: A Study of Rhetoric in Legislative Combat. Major Adviser: Prof. D. K. Smith.

Miran Kevoork Chantooni, Jr., Des Moines, Iowa

B.S. '51, M.S. '54, State University of Iowa. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Acid-Base Equilibria in Acetonitrile. Major Adviser: Prof. I. M. Koltzoff.

Roland Emanuel Paul Chardon, Columbus, Ohio

B.A. *cum laude* '51, University of Minnesota; M.S. '54, Florida State University. Major: Geography. Minor: Anthropology. Thesis: Some Geographic Aspects of Plantation Agriculture in Yucatan. Major Adviser: Prof. J. O. M. Brock.

Robert Frederick Derr, Minneapolis

B.S. '55, Pennsylvania State University; M.S. '58, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Synthesis and Metabolism of S<sup>35</sup>-(1,2-Dichlorovinyl)-L-Cysteine. Major Adviser: Prof. M. O. Schultze.

Del Rose Marie Dubbs, Pine River

B.A. '50, M.S. '57, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Host Cell-Virus Interactions in Cultures of Mammalian Cells Infected with Japanese Encephalitis Virus. Major Adviser: Dr. W. F. Scherer.

Kenneth Emerson, Pasadena, Calif.

B.A. '53, Harvard University; M.A. '58, University of Oregon. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: The Preparation and Structure of Group V Tricyanides. Major Adviser: Prof. Doyle Britton.

Richard Edwin Fehner, Northfield

B.S. '49, University of Minnesota; M.A. '53, University of California (Berkeley). Major: English. Minor: History. Thesis: Izaak Walton's *Life of Sir Henry Wotton, 1651, 1654, 1670, 1672, 1675: A Study of Sources, Revisions, and Chronology*. Major Adviser: Prof. L. H. Unger.

David Mark Golden, Brooklyn, N.Y.

B.A. '56, Cornell University. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: The Measurement of Absolute Raman Intensities. Major Adviser: Prof. Bryce Crawford, Jr.

Jac Landman Goldstucker, Wichita Falls, Tex.

B.S. in Bus. '40, University of Oklahoma; M.B.A. '53, Southern Methodist University. Major: Business Administration. Minor: Psychology. Thesis: Dynamics of Wholesale Trading Areas. Major Adviser: Prof. E. H. Lewis.

Zakkula Govindarajulu, India

B.A. (Hons.) '52, M.A. '53, University of Madras. Major: Statistics. Minor: Mathematics. Thesis: Central Limit Theorems and Asymptotic Efficiency for One Sample Non-Parametric Procedures. Major Adviser: Prof. I. R. Savage.

Allen Guttman, Amherst, Mass.

B.A. '53, University of Florida; M.A. '56, Columbia University. Major: American Studies. Thesis: *The Wound in the Heart: American Responses to and Interpretations of the Spanish Civil War*. Major Adviser: Prof. M. Q. Sibley.

William Andrews Hachten, Los Angeles, Calif.

B.A. '47, Stanford University; M.S. '52, University of California (Los Angeles). Major: Journalism. Minor: Political Science. Thesis: *The Metropolitan Sunday Newspaper in the United States: A Study of Trends in Content and Practices*. Major Adviser: Prof. R. B. Nixon.

Richard Stearns Hatch, St. Paul

B.A. '51, M.A. '53, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: *An Evaluation of a Forced-Choice Differential Accuracy Approach to the Measurement of Supervisory Empathy*. Major Adviser: Prof. M. D. Dunnette.

Thomas Harlan Jerdee, Chapel Hill,  
N.C.

B.A. '50, Gustavus Adolphus College; M.A. '56 University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Supervisor Perception of Subordinate Attitudes. Major Adviser: Prof. M. D. Dunnette.

David Meyer Kaplan, Cohasset, Mass.  
B.S. in S.S. '39, City College of New York; M.S. '47, Columbia University. Major: Social Work. Minor: Public Health. Thesis: Predicting Outcome from Situational Stress on the Basis of Individual Problem-Solving Patterns. Major Adviser: Prof. L. N. Scott.

Neil Vance Kern, Duluth

B.A. '55, University of Minnesota. Major: Inorganic Chemistry. Minor: Organic Chemistry. Thesis: The Reaction of Triphenyltin Hydride with the Acetylenic Bond. Major Adviser: Prof. O. H. Johnson.

Herald Ernest Lewald, Montevideo

B.A. *magna cum laude* '51, M.A. '55, University of Minnesota. Major: Spanish. Minor: German. Thesis: The Aristocrat in the Spanish Novel of the Naturalistic Period. Major Adviser: Prof. W. T. Pattison.

Robert Winslow Marker, Sioux Falls,  
S.D.

B.Mus.E. '52, Northwestern University; M.A. '57, University of South Dakota. Major: Education. Minor: Educational Psychology. Thesis: A Comparative Analysis of Selected Generalized Formulas for the Distribution of State Aid for School Plants in Minnesota. Major Advisers: Profs. O. E. Domian and C. P. Hooker.

James Gregory McAree, Minneapolis

B.A. *magna cum laude* '49, M.A. '50, University of Southern California. Major: History. Minor: Political Science. Thesis: The Passage of the Government of India Bill of 1858. Major Advisers: Profs. D. H. Willson and L. A. Mills.

John Murray McCabe, Troy, Pa.

B.S. with honors '56, Pennsylvania State University. Major: Chemical Engineering. Minor: Statistics. Thesis: A Study of the Chlorination of Benzene Using  $\text{Co}^{60}$  Gamma Radiation in a Flow System. Major Adviser: Prof. H. S. Isbin.

Ronald Ian McKinnon, Syracuse, N.Y.

B.A.(Hons.) '56, University of Alberta. Major: Economics. Minor: Statistics. Thesis: The Employment of Labor and the Cost of Capital in Manufacturing Industries as They are Related to Wage Changes and Technological Progress. Major Adviser: Prof. O. H. Brownlee.

John Alexander Mutchmor, Chatham,  
Canada

B.Sc. '50, University of Alberta; M.S. '55, University of Minnesota. Major: Entomology. Minor: Agricultural Biochemistry. Thesis: Low Temperature Tolerance of Insects in Relation to the Influence of Temperature on Muscle Apyrase Activity. Major Adviser: Prof. A. G. Richards.

Ralph Alfred Nelson, Minneapolis

B.A. *cum laude* '50, M.D. '53, University of Minnesota. Major: Physiology. Minor: Pathology. Thesis: The Sorption of Water, Sodium and Potassium in the Small Bowel of Dogs during Nicotinic Acid Deficiency. Major Advisers: Drs. C. F. Code and M. B. Visscher.

Ricardo Arturo Rodriguez, San Jose,  
Costa Rica

Graduate '52, Universidad de Costa Rica; M.S. '55, Purdue University. Major: Plant Pathology. Minor: Botany. Thesis: The Nature of Resistance in Muskmelons to Fusarium Wilt. Major Adviser: Prof. C. J. Eide.

Thomas Owen Rouse, Raton, N.M.

B.S. '55, University of New Mexico. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: An Evaluation of Chronopotentiometry and an Investigation of Several New Types of Constant Current Linear Diffusion Problems. Major Adviser: Prof. Stanley Bruckenstein.

Millard Herbert Ruether, Fridley

B.A. '44, B.S. '47, University of Minnesota. Major: Pharmacology. Minor: Bacteriology. Thesis: Cytotoxicity of Antibacterial Agents. Major Adviser: Dr. R. N. Bieter.

Larry Leroy Schaleger, Milwaukee,  
Wis.

B.A. '57, Grinnell College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Mechanism of Deoxymercuration and Structure of Mercurials in Solution. Major Adviser: Prof. M. M. Kreevoy.

Thomas Blythe Scott, Altoona, Pa.

B.A. '49, M.A. '50, University of Tennessee. Major: Psychology. Minor: Educational Psychology. Thesis: Counseling Interpretations for the Minnesota Vocational Interest Inventory Based on Comparisons with the Strong Vocational Interest Blank. Major Adviser: Prof. H. P. Longstaff.

Jerome Everett Singer, Mount Vernon, N.Y.

B.A. '56, University of Michigan. Major: Psychology. Minor: Sociology. Thesis: The Effects of Epinephrine, Chlorpromazine and Dibenzylamine upon the Fright Responses of Rats Under Stress and Non-Stress Conditions. Major Adviser: Prof. Stanley Schachter.

James Herbert Skala, Madison, Wis.

B.S. '50, Beloit College; M.S. '57, University of Minnesota. Major: Poultry Husbandry. Minor: Agricultural Biochemistry. Thesis: A Study of Certain Physical and Chemical Properties of Chicken Eggs in Relation to Their Initial Albumen Quality and to Some Characteristics of the Hens Which Laid Them. Major Adviser: Prof. M. H. Swanson.

Thomas Kazuo Toyama, Minneapolis

B.S. with high distinction '53, University of Minnesota. Major: Horticulture. Minor: Plant Genetics. Thesis: The Breeding Behavior of Selected Varieties of the Red Raspberry Especially with Respect to Certain Fruit Characters Which May Be Related to Seediness. Major Adviser: Prof. A. N. Wilcox.

John Walter Trank, Minneapolis

B.E.E. '51, M.S. '57, University of Minnesota. Major: Physiology. Minor: Biophysics. Thesis: Studies on the Carotid Sinus Baroreceptors with Particular Reference to Endotoxin Shock. Major Adviser: Dr. M. B. Visscher.

Richard Franklin Watt, St. Paul

B.S. cum laude '43, New York State College of Forestry (Syracuse University); M.F. '47, Yale University. Major: Forestry. Minor: Botany. Thesis: Growth and Development of Four Northern Conifers under Long and Natural Photoperiods in Wisconsin and Florida. Major Adviser: Prof. S. S. Pauley.

James Tsing-sen Yen, Shanghai, China

B.S. '52, Taiwan College of Engineering; M.S. in M.E. '56, University of Minnesota. Major: Fluid Mechanics. Minor: Mathematics. Thesis: Theoretical Analysis of Heat Transfer for the Magneto-Hydrodynamic Rayleigh's Problem. Major Adviser: Prof. C. C. Chang.

Henryk Ziomek, Indianapolis, Ind.

B.A. '55, Indiana State Teachers College; M.A. '56, Indiana University. Major: Spanish. Minors: French and Latin. Thesis: A Paleographic Edition of Lope de Vega's Autograph Play *La Nueva Victoria de D. Gonzalo de Cordoua*. Major Adviser: Prof. R. L. Grismer.

## Doctor of Philosophy in Medicine

Griff Terry Ross, Mount Enterprise, Tex.

M.D. '45, University of Texas. Major: Medicine. Minor: Pathology. Thesis: Studies of Some Morphologic Properties and Hormonal Activities of a Suspension of Intact Single Cells Derived from the Anterior Hypophysis of the Adult Male Rat. Major Adviser: Dr. R. C. Bahn.

## Academic Costume

On appropriate occasions, anyone with a college or university degree may wear academic costume consisting of a gown, a hood, and a cap. By observing the kind of academic costume a person wears, it is possible to know the name of the university from which he graduated, as well as the degree which he holds, and, in some cases, the field of his major interest as well.

The long, pointed sleeve of the gown indicates a Bachelor's degree; the long, closed sleeve with a slit near the upper part of the arm indicates a Master's degree; and the open sleeve marks a Doctor's degree. Bachelors' and Masters' gowns are black in color and are without any trimming. Generally, the Doctor's gown is black also, but some universities, particularly those abroad, prescribe such festive colors as red, crimson, or green. All Doctors' gowns have velvet trimming on the front facings and crossbars on the sleeves. This trimming may be black, or it may match the color of the edging of the hood and thus identify the profession or field of major interest of the wearer.

At a commencement it is quite proper to wear the gown—but not the hood—appropriate for the degree *which is to be received*. The only hoods worn at commencements are for degrees which have already been received. Thus only those students and faculty members who have already received college or university degrees wear hoods. Anyone who has a degree from the University of Minnesota may wear a hood decorated with a maroon chevron on gold background. The length and shape of the hood indicates whether the wearer has earned a Bachelor's, a Master's, or a Doctor's degree. The velvet edging on the hood indicates the field in which the degree was granted. For example, dark blue signifies Philosophy; light blue, Education; green, Medicine; lilac, Dentistry; orange, Engineering; russet, Forestry; drab, Business; olive green, Pharmacy; purple, Law; gray, Veterinary Medicine; golden yellow, Science; and white, Arts and Letters.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidates are honor students.

Caps, generally mortarboards with tassels, have significance, too. The Doctor's tassel may be black or gold. Masters' and Bachelors' tassels are black; but at University of Minnesota commencements—upon the authority of the University Senate Committee on Functions—candidates for the Bachelors' and Associates' degrees wear tassels which indicate their schools or colleges by color as follows:

(In the order of march)

General Extension Division .....	orange and drab
General College.....	crimson and white
College of Science, Literature, and the Arts.....	white
University College.....	old gold and white

Institute of Technology.....	orange
College of Agriculture, Forestry, and Home Economics.....	maize
College of Education.....	light blue
School of Business Administration.....	drab
Law School.....	purple
College of Medical Sciences.....	green
Graduate School.....	black

But once the Bachelor's degree has been received and the commencement is over, the graduate, should he wear academic costume again, will wear only the black tassel as does the holder of the Master's degree. Similarly, he will not in the future wear the shoulder insignia as a part of his academic dress even if he is an honor graduate. All graduates of the University should remember that the academic dress at this University conforms to the rules of the Intercollegiate Bureau of Academic Costume. This means that Minnesota academic insignia may be easily secured anywhere in the world. And it is always worn proudly and with distinction—for ours is a great University.



# UNIVERSITY OF MINNESOTA

## *Senior Reception*

*March, 1961*

- The members of the graduating class, their families and friends, are invited to attend the Senior Reception immediately after the commencement exercises. The Reception will be held in the Main Ballroom of Coffman Memorial Union.
- Those in the receiving line will be President and Mrs. Wilson, Mr. Richard Stanford, President of the Coffman Union Board of Governors, and Mr. Gary Grimm, Vice President of the Minnesota Student Association.
- Assisting in the Reception are members of the Union Board of Governors and its committees, and of the following honorary societies: Chimes, Grey Friars, Iron Wedge, Mortar Board, and Phoenix.
- Punch will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.

THE  
UNIVERSITY OF MINNESOTA

Announces Its

*June Commencement*

*1961*

MEMORIAL STADIUM  
SATURDAY EVENING, JUNE 10  
AT EIGHT O'CLOCK



## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. O. Meredith Wilson, President

Mr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

The Honorable Ray J. Quinlivan, St. Cloud  
First Vice President and Chairman

The Honorable Charles W. Mayo, M.D., Rochester  
Second Vice President

The Honorable James F. Bell,\* Minneapolis

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Bjarne E. Grottum, Jackson

The Honorable Robert E. Hess, White Bear Lake

The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

\* Deceased

## *This Is Your University*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and tenth birthday. As from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of physicians, lawyers, engineers, social workers, educators, journalists, dentists, veterinarians, farmers, businessmen—community and civic leaders in all fields—who have gone from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence the University has awarded more than 151,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to more than 28,000 students on its Minneapolis, St. Paul, Duluth, and Morris Campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members who are county agents, home agents, 4-H Club agents, and recreation and health consultants give effective assistance to citizens of the state in their very homes.

But the University of Minnesota, like all great universities, has expanded far beyond its early teaching and training programs. In the diverse research laboratories on its four campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Mayo Foundation at Rochester, the Hormel Institute at Austin, and at University Hospitals, University scientists at any one moment are working on countless research experiments of vital importance to the future health and welfare of us all. These projects deal with such matters as cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, nuclear energy, school surveys, and new varieties of grains, fruits, and flowers to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the University Artists Course, Radio Station KUOM, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to

provide an endowed research professorship in heart disease. Further contributions have made it possible for the University to build the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the biological-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose thoughtful cooperation has made hundreds of scholarships and fellowships available each year to students of promise. Chiefly because of financial difficulties, only one-half of the Minnesota high school graduates of high ability enter any college or university. Because of this, the friends and supporters of the University are constantly trying to increase the number of scholarships and the amount of money available for such assistance.

Over recent years, much of the University's energy has gone into the necessary planning for the anticipated increases in future enrollments. At present about half of the students in Minnesota colleges and universities attend the University of Minnesota. If the other institutions continue to take this same percentage of these students, not less than 47,000 full-time, fully matriculated students will be attending the University in 1970. This means more teachers, more civil service staff members, more land, and more buildings.

THE 1959 LEGISLATURE granted the University \$49,068,181 for general maintenance during the 1959-61 biennium. In addition, the University will receive \$8,879,748 for University Hospitals; \$4,141,355.69 for special appropriations, including special extension and research activities; and \$14,457,150 for new buildings, land, and for the rehabilitation of existing buildings.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request as is a much more comprehensive and complete statement for those who wish to make a special study of the University's income and expenditures.

The summary financial statement of 1959-60 showed that the University received \$90,177,067.15 and spent \$90,177,626.52. This includes a total of \$16,228,815.94 received from student tuition and fees, hospital and other department receipts; \$1,254,107.29 from intercollegiate athletics; \$15,243,194.78 from such services as dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, the University Theater, and the Health Service, and from the revolving funds; and \$20,265,209.92 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research, prizes, scholarships, and the care of the sick. Also, \$2,659,035.91 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$90,177,067.15 which the University received for 1959-60, \$34,526,703.31, or 38.3 per cent, came from the state.

All students at the University, their families and friends are invited to continue their enthusiasm and interest in the University of Minnesota. Graduates are especially urged to identify themselves with the Minnesota Alumni Association and the Greater University Fund and to return as frequently as possible to visit us here at the University.

## Order of Events \*

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their families and friends reach the Minneapolis Campus of the University this evening from 7:00 to 7:30 p.m., they will hear the Frances Miller Brown Memorial Bells played from Northrop Memorial Auditorium by Miss Helen Garvey, University Carillonneur. No seats for the Commencement Exercises in Memorial Stadium are reserved. All open entrances on the east and south sides of the Stadium may be used.

**PRELUDE CONCERT:** From 7:30 to 8:00 p.m., the University of Minnesota Concert and Symphony Bands, conducted by Instructor in Music Frank Bencriscutto, D.M.A., Bandmaster, will play:

<i>Outdoor Overture</i>	- - - - -	Aaron Copland
<i>Arioso</i>	- - - - -	Bach
<i>Jubilation</i>	- - - - -	Robert Ward
<i>Russian Easter</i>	- - - - -	Rimsky-Korsakov

**PROCESSION:** At 8:00 p.m. the procession will enter the Stadium, led by the Mace Bearer, Associate Professor J. Merle Harris, A.B., General College, Faculty Marshal. The procession includes candidates for degrees, marching by colleges, the faculty, distinguished guests, and the Regents. The line of march for degree candidates is as follows: Department of Military Science and Tactics; Department of Naval Science; Department of Air Science; General Extension Division; General College; College of Science, Literature, and the Arts; University College; Institute of Technology; College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; College of Education; School of Business Administration; College of Pharmacy; Law School; College of Veterinary Medicine; School of Dentistry; College of Medical Sciences; and the Graduate School. Faculty marshals will be Professor Harris; Professor Ralph E. Comstock, Ph.D., Institute of Agriculture; Associate Professor Ralph H. Hopp, Ph.D., University Library; Professor Robert J. Keller, Ph.D., College of Education. During the procession the Bands will play:

<i>Academic Procession</i>	- - - - -	Clifton Williams
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**PRESENTATION OF COLORS:** Following the procession, the color guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, will enter the Stadium. The audience will then rise and remain standing for the National Anthem and for the Invocation.

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\* In the event of rain, Commencement Exercises will be held in the basketball section of Williams Arena. Because of the limited number of seats available, only the members of the graduating class and a restricted number of their guests who have been issued special guest cards will be admitted. Only insofar as the physical facilities of Williams Arena permit, will the Order of Events planned for the Stadium be carried out in the Arena.

## *Order of Events*

THE NATIONAL ANTHEM: The entire audience, standing, and Assistant Professor Norman Abelson, Ed.D., Department of Music, soloist.

Oh, say can you see, by the dawn's early light,  
What so proudly we hailed at the twilight's last gleaming,  
Whose broad stripes and bright stars, thro' the perilous fight,  
O'er the ramparts we watched, were so gallantly streaming?  
And the rocket's red glare, the bombs bursting in air,  
Gave proof thro' the night that our flag was still there.  
Oh, say does that star-spangled banner yet wave  
O'er the land of the free and the home of the brave?

INVOCATION (the audience still standing): The Reverend Homer K. Shafer, Adviser to Baptist students and staff members on the Minneapolis Campus of the University.

SPEAKING FOR THE UNIVERSITY: President O. Meredith Wilson, Ph.D., University of Minnesota.

PRESENTATION OF A REGENTS' CERTIFICATE OF MERIT: The Honorable Ray J. Quinlivan will present a Regents' Certificate of Merit to Mr. Edward B. Cosgrove.

CONFERRING OF ROTC CERTIFICATES: Vice President Malcolm M. Willey, Ph.D., Academic Administration, will introduce Lt. Colonel Robert J. Elliott, USA, Professor of Military Science; Captain Cary H. Hall, USN, Professor of Naval Science; and Major Frederick D. Stockdale, USAF, Professor of Air Science, who will present the candidates for commissions in their respective branches of the Armed Services. The certificates of ROTC completion will be presented by President Wilson.

CONFERRING OF DEGREES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction: Associate Dean Huntington Miller, LL.B., General Extension Division; Dean Horace T. Morse, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts, and University College; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Acting Dean Theodore H. Fenske, D.Sc., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Dean George P. Hager, Ph.D., College of Pharmacy; Dean William B. Lockhart, S.J.D., Law School; Dean William T. S. Thorp, D.V.M., College of Veterinary Medicine; Dean William H. Crawford, D.D.S., School

## *Order of Events*

of Dentistry; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Bryce Crawford, Jr., Ph.D., Graduate School.

**SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION:** Professor Edwin L. Haislet, Ed.D., Executive Secretary of the Minnesota Alumni Association and Director of the Department of Alumni Relations.

**PRESENTATION OF DIPLOMAS:** With Dean of Students Edmund G. Williamson, Ph.D., presiding, all members of the June graduating class will move to the stage to receive their diplomas. Assisting the deans of the several colleges or their representatives in the presentation of diplomas are: Assistant Professor Robert C. Slater, B.S., General Extension Division; Associate Dean Alfred L. Vaughan, Ph.D., General College; Professor William L. Hart, Ph.D., College of Science, Literature, and the Arts; Associate Dean Frank Verbrugge, Ph.D., Institute of Technology; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Marcia Edwards, Ph.D., College of Education; Assistant Dean Reuel I. Lund, Ph.D., School of Business Administration; Associate Dean Charles V. Netz, Ph.D., College of Pharmacy; Professor Bruno Greene, LL.B., Law School; Assistant Dean Ralph L. Kitchell, D.V.M., College of Veterinary Medicine; Assistant Dean Mellor R. Holland, D.D.S., School of Dentistry; Assistant Dean William Fleeson, M.D., College of Medical Sciences; Professor Francis M. Boddy, Ph.D., Graduate School.

**CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY:** Candidates for this degree will be presented individually by Dean Bryce Crawford to President Wilson, who will confer the degrees.

**HAIL! MINNESOTA,** the University's Alma Mater song: The audience and Professor Abelson.

Minnesota, hail to thee!	Like the stream that bends to sea,
Hail to thee, our college dear!	Like the pine that seeks the blue,
Thy light shall ever be	Minnesota, still for thee
A beacon bright and clear;	Thy sons are strong and true;
Thy sons and daughters true	From thy woods and waters fair,
Will proclaim thee near and far;	From thy prairies waving far,
They will guard thy fame	At thy call they throng
And adore thy name;	With their shout and song,
Thou shalt be their Northern Star.	Hailing thee their Northern Star.

**AULD LANG SYNE:** The Frances Miller Brown Memorial Bells.

(There will be no Recessional)



THE UNIVERSITY OF MINNESOTA  
IN APPRECIATION OF DEVOTED SERVICE  
PRESENTS THIS  
REGENTS' CERTIFICATE OF MERIT

TO

**Edward B. Cosgrove**

MEMBER OF THE BOARD OF REGENTS

**1955-1961**

And thereby formally recognizes and gives grateful expression

**F**OR all that his services have meant

To the University and to the citizens of the state;

**F**OR all that his counsel and judgment have meant

To the on-going of the University

In its programs of instruction, research, and public service;

And, above all,

**F**OR what his personal association and friendship over the years have meant

To his colleagues on the Board of Regents

PRESENTED this Tenth Day of June, in the Year of Our Lord, the One Thousand Nine Hundred and Sixty-first, and of the University of Minnesota, the One Hundred and Tenth.

*Meredith Wilson*

PRESIDENT

*Laurence R. Lunden*

SECRETARY

(Also signed by those members of the Board of Regents who served  
with Mr. Cosgrove.)

## *Candidates for Commissions*

Subject to the completion of all curriculum requirements at the close of the spring quarter, commissions will be presented as indicated on those listed below and upon such others as may meet the requirements for Reserve Officers in the Armed Services.

### DEPARTMENT OF MILITARY SCIENCE AND TACTICS

#### **Second Lieutenant, Adjutant General Corps**

Dean H. Child, Minneapolis

#### **Second Lieutenant, Armor**

Larry L. Leslie, Minneapolis

#### **Second Lieutenant, Army Intelligence Corps**

Harvey L. Anderson, Minneapolis  
Gilbert B. Churchill, Austin

Stanley M. Suplick, Minneapolis

#### **Second Lieutenant, Artillery**

Brian A. Anderson, Minneapolis  
Rodney L. Doran, Detroit Lakes  
John M. Ehlen, Wadena

Charles H. Elmer, Moline, Ill.  
David P. Fleming, Minneapolis  
Henry B. A. Witta, Jr., Minneapolis

#### **Second Lieutenant, Corps of Engineers**

Peter R. Bjornberg, Willmar

Waldemar W. Lange, St. Paul

#### **Second Lieutenant, Infantry**

Robert F. Hervey, Winona\*

Michael W. Wright, St. Paul

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\* Designated Distinguished Military Graduate

## **Second Lieutenant, Medical Service Corps**

Garry R. Persons, Edina  
Lloyd A. Schlaepfi, Minneapolis

Kirk H. Smith, Minneapolis

## **Second Lieutenant, Military Police Corps**

Grant S. Nelson, St. Paul

## **Second Lieutenant, Ordnance Corps**

Wilbur L. Anderson, Wyomissing, Pa.    Leo G. Mielke, Minneapolis  
William E. Harrison, Minneapolis

## **Second Lieutenant, Quartermaster Corps**

Ralph B. Latchaw, Jr., Edina                      Paul H. Ravich, Los Angeles, Calif.

## **Second Lieutenant, Signal Corps**

John J. Igel, Minneapolis                      Stephen Winnick, St. Paul

## **Second Lieutenant, Transportation Corps**

Dana X. Marshall, Braham

## **DEPARTMENT OF NAVAL SCIENCE**

### **Ensign, USN**

Joseph H. Adams, Superior, Wis.  
Charles E. Alsip, South St. Paul  
Douglas D. Blaha, St. Paul  
Richard L. Cluever, Jordan  
James L. Eriksson, Minneapolis  
Donald L. Gustafson, Eau Claire, Wis.

John J. Krall, Ely  
David A. Olsen, Minneapolis  
Allen J. Standish, Minneapolis  
Gary E. Stoos, Faribault  
John L. Upthegrove, Superior, Wis.

### **Ensign, USNR**

Robert J. Alfton, Minneapolis

## **Ensign, SC, USN**

Dennis C. Nelson, St. Cloud  
Neil A. Ray, Little Falls  
Charles D. Schroyer, St. Paul

Theodore P. Trampe, North St. Paul  
Charles V. Trubl III, Winona  
Michael J. Wons, St. Paul

## **Ensign, SC, USNR**

Jon B. Middleton, Marshall

Gary L. Nelson, Minneapolis

## **DEPARTMENT OF AIR SCIENCE**

### **Second Lieutenant, USAF Reserve**

James C. Amundson, Minneapolis  
James E. Angvall, Minneapolis  
Byron E. Anshus, Minneapolis  
George H. Becker, St. Paul  
Kenneth M. Eells, Minneapolis  
Gary E. Gnauck, White Bear Lake  
Harold E. Halvorsen, Minneapolis  
Paul M. Hammersten, St. Paul

Lee C. Hoskins, Kimball  
Ronald N. Johnson, Minneapolis  
Charles K. Knox, Jr., Minneapolis  
Gary H. Knutson, Minneapolis  
Jon H. Lienemann, Minneapolis  
Leon E. Sawyer, St. Paul  
Waldemar P. Scherer, Mankato  
Roger A. Torkelson, Luverne

## *Candidates for Graduation*

Subject to the completion of all curriculum requirements at the close of the spring quarter, degrees will be conferred as indicated on those listed below and upon such others as may meet the graduation requirements.

## **GENERAL EXTENSION DIVISION**

### **Business Administration Certificate**

Joseph Robert Matusovic, Minneapolis    Robert Edward Smith, St. Paul  
Robert LeRoy Pagel, Minneapolis

### **General Engineering Certificate**

Arthur Joseph Edhlund, St. Paul    Earl Richard Fleming, Minneapolis  
Wilbur George Emery, Minneapolis\*    Ellert Morris Ihlan, Minneapolis

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\* Certificate granted as of March 16, 1961

## Industrial Engineering Certificate

Edwin Warner Carlson, Minneapolis

Darryl Wayne Watson, Minneapolis

## Industrial Engineering Technician Certificate

John Arthur Bade, St. Paul

## Associate in Mortuary Science

John Carleton Anderson, Stromsburg,  
Neb.

John Phillip Anderson, Northfield  
Roy Wayne Averbeck, Minneapolis

John Richard Baker, Minneapolis

Jon Paul Benson, Worthington

James Bertram Bernatz, A.A., Austin

William Henry Birk, A.A., Monticello

Richard Neil Broer, B.A., New Providence, Iowa

Arlen R. Carlson, A.A., Starbuck

Dean Lowell Cataldo, B.A., Garner,  
Iowa

Robert Clinton Caturia, Hastings

John Conner Clarke, Artesia, N.M.

Richard Jerome Cramlet, De Graff

David Patrick Dowd, Minneapolis

Alan Roger Erickson, Roland, Iowa

Larry Eldon Essen, Minneapolis

David Bowen Ferrell, Annandale

Donald Richard Gearhart, Jr., Minneapolis

Keith Arvid Geyer, B.A., What Cheer, Iowa

Arve Grimsmo, Monticello

Douglas Clarence Hanson, Minneapolis

Howard Dewaine Hanson, Harmony

James John Hanson, South Haven

Ronald Lee Hofbauer, A.L.A., Buffalo Center, Iowa

James Martin Honsa, St. Paul

John Marshman Hunt, Minneapolis

James Arthur Iten, Browerville

Dean J. Jacobson, Readstown, Wis.

Laurence Donald Jensen, Salem, S.D.

Charles Joseph Johnson, Minneapolis

William Joseph Johnston, Omaha,  
Neb.

Kenneth Dean Lichliter, Minneapolis

Peter Carl Lindquist, Buffalo

Leo Andrew McGinley, Prairie du Chien, Wis.

Kent Eugene Morstad, B.A., Sioux Falls, S.D.

Howard Eugene Munson, St. James

James Willis Park, Centuria, Wis.

Rolf Anders Peterson, Willmar

Thomas Anthony Philipp, B.B.A., Shakopee

James David Raddatz, West Concord

Gordon Frank Root, Aitkin

Dale Le Roy Rosenberg, Milaca

Dennis Dean Soderstrum, Slater, Iowa

David Robert Swanson, Cokato

James Carl Tonn, Osseo

Gary Richard Wagner, Aitkin

Ralph A. White, Jr., Minneapolis

Claude Oliver Whitted, Pine River

Theodore Abel Wold, Marshall

Darryl Wayne Wollin, Greenbush

Eldon Lee Ziemer, Truman

# GENERAL COLLEGE

## Associate in Arts

- Bruce Lawrence Ahrens, St. Paul  
James Cecil Allison, Minneapolis  
Karen Rosalind Anderson, Minneapolis  
Kent Morgan Backstrom, Minneapolis  
Jon Donald Beisang, St. Paul  
Joyce Elaine Berezovsky, Minneapolis  
Thomas Leonard Bertini, St. Paul  
James Donald Bixby, Minneapolis  
John Joseph Blass, Robbinsdale  
Ellion Gary Bornfleth, Nerstrand  
Vernon Edward Brewers, Minneapolis  
Gerald Edmund Bromenschenkel, Minneapolis  
Dale Robert Burke, Minneapolis  
Steven Myron Burnstein, Minneapolis  
Allen Robert Butler, Sauk Centre  
Larry George Winslow Butler, Richfield  
Richard Allen Carlson, South St. Paul  
Roberta Joan Carlson, Minneapolis  
Walter John Carlson, Jr., West St. Paul  
Harry Jean Champlain, Robbinsdale  
Ray Thomas Christensen, Hill City  
Stephen Allen Clapp, Minneapolis  
William Edward Cote, Minneapolis  
Sharon Ann Cunningham, Excelsior  
Martha Estelle Dodge, Minneapolis  
Charlotte Ann Dorsett, Minneapolis  
James Kenneth Duncan, St. Paul  
Bruce Judson Dutcher, Brooklyn Park  
Fred Emil Edlund III, St. Paul  
Dennis Allen Eggert, St. Paul  
Harry G. Eilers, Jr., Edina  
Duane Lehman Elg, Minneapolis  
Earl Curtis Elmquist, Minneapolis  
Sharon Marie Engelsma, Minneapolis  
Verne Curtis Enger, Hopkins  
Ronald Charles Enrooth, Minneapolis  
John Roland Etestad, International Falls  
Charles Mallory Gaile, Minneapolis  
Dennis Renne Hagman, Minneapolis  
Roy Heimer Haldeen, Jr., Minneapolis  
Donald Darrell Hansen, Minneapolis  
Edward Lawrence Hartry, Minneapolis  
Ruthanne Elizabeth Heenan, Minneapolis  
Oberdon Louis Heston, Minneapolis  
Geoffrey Kendall Hillestad, St. Paul  
Leroy Roger Hjelmberg, Minneapolis  
Charles Edward Hodek, Minneapolis  
Thomas Keith Hogan, Minneapolis  
Gerald Roger Jan, Minneapolis  
Charles Edward Jirousek, Coon Rapids  
Clifton Le Roy Johns, Minneapolis  
Catherine Marie Johnson, Minneapolis  
Robert John Johnson, Jr., Rice  
Gene Francis Kacheroski, Minneapolis  
Philip LeRoy Kamman, Minneapolis  
John Harrison Keeler, Minneapolis  
Gerald Robert Kennedy, Richfield  
Thomas Edward King-Ellison, Minneapolis  
Charles Wayne Kleinsteuber, Minneapolis  
Gale Robert Kleist, Minneapolis  
Richard Bach Kneeland, St. Paul  
Ihor Michael Kramarczuk, Minneapolis  
Kenneth Ray Kroll, Minneapolis  
Lee Arthur Krumpelmann, West St. Paul  
Kenneth Deane Lafferty, Jr., Chicago, Ill.  
Michael Emmett Larkin, Hopkins  
Patricia Jane Larson, Minneapolis  
Francis Edmund Launstein, Hopkins  
Timothy Ray LaVelle, Hopkins  
Curtis C. Lazarz, Minneapolis  
Barbara Rosalee Lerman, St. Paul  
Carl Jay Lindgren, Minneapolis  
Philip Gustaf Lindstedt, Jr., Minneapolis  
Gordon Allen Lothson, St. Paul  
Dennis Albert Mallum, Minneapolis  
Jan David Manion, Hopkins

William Jackley Massey, Hopkins  
 Lee Robert Master, Robbinsdale  
 James Robert Matteson, Olivia  
 William Whitely McMillan, Minneapolis  
 Gerard Odin Melgaard, Buffalo  
 Thomas Wayne Milligan, St. Paul  
 Bradley James Mills, Minneapolis  
 Bruce Harry Moberg, Minneapolis  
 David Leland Moberaten, Fergus Falls  
 Mary Louise Murnane, Minneapolis  
 Richard William Murray, St. Paul  
 William Ruppert Murray, St. Louis Park  
 Charles Horton Nash, Wayzata  
 Basil J. Navratil, Silver Lake  
 Gary Wallace Nelson, Minneapolis  
 Bernadine Noodleman, Minneapolis  
 Dean Roger Olander, Minneapolis  
 Denis Gregory Orman, Minneapolis  
 Gary James Pagel, West St. Paul  
 David Allen Peterson, Minneapolis  
 Gary Robert Peterson, Minneapolis  
 Karol Jean Peterson, Minneapolis  
 James Wesley Raymond, Excelsior  
 Thomas Edward Reamer, Minneapolis  
 Fred Franklin Reinecke, Minneapolis  
 Hobart Oscar Reitan, Minneapolis  
 Bruce Ralph Rinkel, White Bear Lake  
 David Michael Sauer, Minneapolis  
 Edward Joseph Scanlan, Jr., Minneapolis  
 John Lawrence Schoolmeesters, Willmar  
 Max Elliott Schottler, Jr., Minneapolis  
 Lesley Kay Schwarten, Braham  
 Rex Martin Schwartz, Sleepy Eye  
 Robert Edward Schwartz, Wadena  
 Robert Ray Sculthorp, Thief River Falls  
 Michael S. Seiler, Duluth  
 Sandra Edythe Shapiro, Minneapolis  
 Dean R. Shawbold, Jr., White Bear Lake  
 Glenn Lauriston Smith, Minneapolis  
 James Upsher Smith, Jr., Minneapolis  
 Niles John Solstad, Minneapolis  
 William Frederick Sommerfeldt, Jr., St. Paul  
 Clinton LeRoy Soppeland, Bloomington  
 Marsden Kenneth Sperry, Hopkins  
 David Eric Steglich, Stillwater  
 Susan Jean Steinman, Minneapolis  
 James Taylor Stewart, Wheaton  
 Terry Emerson Stewart, Minneapolis  
 Thomas Leo Swanson, Northfield  
 Shirley Symington, Minneapolis  
 Janice Anita Teig, Duluth  
 Radyne Toback, Duluth  
 Ruben Michael Trejo, St. Paul  
 Katharina S. Verberg, Minneapolis  
 Bonita Jeanne Walker, Edina  
 Russell Lloyd Stevens Wall, Sr., Onamia  
 Jerome Keith Waltz, St. Paul  
 Erling James Westgaard, Minneapolis  
 Albert Preston Whitesell, Minneapolis  
 Barbara Eleanor Whitney, Minneapolis  
 Joan Muriel Whitney, Minneapolis  
 Charlotte Margaret Wickstrom, Minneapolis  
 Freddie Bartholemew Williams, Chicago, Ill.  
 Patrick Leo Williams, Minneapolis  
 Bruce Edward Wojack, Minneapolis  
 Levi Young, St. Paul  
 Doreen Kay Zenk, Minneapolis  
 William Daniel Zwiers, Minneapolis

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

Sara Adelaide Blank, Crystal Lake, Ill.  
 Diane Ruth Bleedorn, St. Paul  
 Eunice Netta Brown, Bowsman River, Manitoba, Canada

Edward Edwin Brustman, Jr., St. Paul  
 Wayne Richard Chermack, Hopkins  
 Patricia Lois Schjoll Eaton, Minneapolis  
 Karin Lydia Erb, Lester Prairie  
 Genevieve Thompson Ferencik, Minneapolis  
 Carolyn Deborah Fiterman, Minneapolis  
 Doris Lillian Getsug, St. Paul  
 Milton Daniel Hakel, Jr., Hopkins  
 Johanna Louise Hansen, Rochester  
 Judith Lorraine Hinds, Minneapolis  
 James Franklin Hulburt, Anoka  
 Judy Jeanette Jensen, St. Paul  
 Arthur Louis Keske, Minneapolis  
 Mary Hazel Kinsell, Minneapolis  
 Donald Vernon Kundert, Minneapolis

Carol Anne Lehner, St. Paul  
 Adrienne Judith Locker, Minneapolis  
 Donna Mae Elaine Ohmann, West  
 St. Paul  
 Marjorie Elaine Ostby, Minneapolis  
 Bernard George Panek, St. Paul  
 Phyllis Fay Patalas, Minneapolis  
 Marlene Ann Richter, Newport  
 Georgia Louise Rodum, Wayzata  
 Dawna G. Mohr Saunders, Minneapolis  
 Kay Louise Schleuder, Austin  
 Carmen Therese Schmit, Wayzata  
 Suzanne Jane Scholz, West St. Paul  
 Karen Ann Watrud, Worthington  
 Carol Ann Westrum, Minneapolis  
 Elsie M. Petering Worch, St. Paul

## Bachelor of Arts

Zev Aelony, Minneapolis  
 Joyce Kay Ahrens, South St. Paul  
 Charles Richard Akin, Minneapolis  
 Dennis George Albrecht, St. Paul  
 Kay Mary Aler, Newark, N. J.  
 Linda Jean Alexander, Wayzata  
 Robert John Alfton, Minneapolis  
*Marveen Eleanor Allen, St. Ansgar,  
 Iowa, CUM LAUDE*  
 Eugene Charles Altenburg, Owen,  
 Wis.  
 Nancy Elizabeth Altman, St. Paul  
 Carol Mary Anderson, Minneapolis  
 David Christian Anderson, Two Har-  
 bors  
 Dean Hart Anderson, St. Louis Park  
*Devona Eileen Anderson, Minne-  
 apolis, MAGNA CUM LAUDE*  
 Donna Mae Anderson, Minneapolis  
*Harvey Lee Anderson, Minneapolis,  
 CUM LAUDE*  
*Mary Susan Anderson, Mahtomedi,  
 MAGNA CUM LAUDE*  
 Nancy Marlene Anderson, St. Paul  
 Peter David Anderson, Wadena  
 Ronald Dean Anderson, Minneapolis  
 Steven Goodwin Anderson, St. Paul  
 Thomas Carl Anderson, Minneapolis  
 Howard Frederick Andrea, St. Paul

Robert Norman Apold, Austin  
 Jeffrey Allan Arenson, St. Paul  
 Richard Michels Arney, Annandale  
 Frances Lamb Arzt, St. Paul  
 Allen Hyatt Bachelder, Minneapolis  
 John William Bailey, Marshall  
 Richard Conrad Baker, Fergus Falls  
 Brenda Lu Bakken, Cloquet  
 Stanley Ronald Balchunas, Minne-  
 apolis  
 James Richard Barnett, Minneapolis  
 Terrence John Barrette, Somerset,  
 Wis.  
*John Maynard Barry, St. Charles,  
 MAGNA CUM LAUDE*  
 George Samuel Batson, Wayzata  
 Fred Bruce Bauries, St. Paul  
 Roger Amidon Beauchaine, Minne-  
 apolis  
 Wallace William Becklin, Cloquet  
 Kathy Pauline Belgea, St. Paul  
 Diane Lansing Bement, St. Paul  
 Evelyn Joan Bender, Bemidji  
 Robert Eugene Bergan, Saco, Mont.  
*Brendalee Berkman, St. Paul, MAGNA  
 CUM LAUDE*  
 Sharon Vivien Berman, Minneapolis  
*William Sherman Berner, Minne-  
 apolis, CUM LAUDE*

*Douglas George Berry, St. Paul,*  
 MAGNA CUM LAUDE  
*Sheldon Howard Beugen, Minneapolis*  
*Richard Reid Bevis, Minneapolis*  
*Ralph Morris Birnberg, A.A., St. Paul*  
*Charles Edward Bjorgen, Minne-*  
*apolis*  
*Robert Allen Bjork, Minnetonka*  
*Beach, CUM LAUDE*  
*Alan Thomas Bjorsness, Minneapolis*  
*Marjorie Ann Blackburn, St. Louis*  
*Park, MAGNA CUM LAUDE*  
*Ronald Ernest Blackmore, Biwabik*  
*Barbara Ann Blakeman, Hudson,*  
*Wis.*  
*Charles Owen Boedeker, Minneapolis*  
*Karen Lee Boelter, Lambertton*  
*Gene Bart Bontems, Duluth*  
*David Edward Bork, Hinckley*  
*Harry Lester Bowen II, A.A., Reading,*  
*Mass.*  
*Mary Ann Bradley, Duluth*  
*Louis Carroll Branca, St. Paul*  
*Frederick William Brandt, Minne-*  
*apolis*  
*John Edward Brauch, Robbinsdale*  
*Philip Noyes Bray, Jr., Duluth*  
*Olha M. Hnojewyj Breslawec, Min-*  
*neapolis*  
*James Wendell Broen, St. Paul*  
*Nolan Oakley Brohaugh, St. Paul*  
*Joseph Gerald Brown, Minneapolis*  
*Gerald LeRoy Bryan, Anoka*  
*Ruth Angelen Bryant, Union, Iowa*  
*Lance Coleman Buoen, Robbinsdale*  
*Ray Lee Burington, St. Paul*  
*James Allan Burroughs, Princeton*  
*Charles Gardner Busch, Austin*  
*David William Butwin, St. Paul*  
*Stephanie Cannon Cain, Rochester*  
*Harold Lee Cannon, Eveleth*  
*Clayton Elwood Carlson II, Minne-*  
*apolis*  
*Gretchen Inez Carlson, Edina*  
*Janet Marie Carlson, Dent*  
*Judy Ann Carpenter, Minneapolis,*  
 MAGNA CUM LAUDE  
*Dennis Earl Carter, Minneapolis*  
*James Chester Chamberlain, Rich-*  
*field*

*Eugene Raymond Chatelaine, Rob-*  
*binsdale*  
*Leo Wai Kuo Cheng, Minneapolis*  
*Dean Harry Child, Minneapolis, CUM*  
 LAUDE  
*Margot Jean Christensen, St. Paul,*  
 CUM LAUDE  
*Raymond Edwin Chun, A.A., St. Paul*  
*Joan Mary Cichosz, St. Louis Park*  
*Joan Elizabeth Clarey, Minneapolis*  
*James Elling Cline, Lake City*  
*Carol Jane Cohen, Minneapolis,*  
 MAGNA CUM LAUDE  
*Robert Fay Collins, Rosemount*  
*Michael Brian Connolly, Minneapolis*  
*Evelyn Sue Cottle, St. Paul*  
*Kemper Morris Cowgill, Minneapolis*  
*Timothy Michael Crane, Minneapolis*  
*James Collier Crewe, Minneapolis*  
*John Vincent Crimmins, Minneapolis*  
*Bart Stanley Cuderman, Aitkin*  
*Roger Dabbah, Minneapolis*  
*Dennis Eugene Daniels, Minneapolis*  
*Joan Plutzer Davies, Minneapolis,*  
 MAGNA CUM LAUDE  
*Sandra Lynn Day, Minneapolis*  
*Eileen Suzanne De Long, St. Paul*  
*Carl Edward Dennis, University*  
*City, Mo., MAGNA CUM LAUDE*  
*Ronald Helmer De Vold, A.A.,*  
 Bloomington  
*Ruth Koivisto De Young, Minneapolis*  
*Patricia Renee Diamond, Detroit*  
 Lakes  
*Ronald Eugene Dick, Windom*  
*Patrick Louis Dillon, Irving, Tex.*  
*Elaine Virginia Donham, St. Paul*  
*Charles Leon Donley, Minneapolis*  
*Donald William Doyle, St. Paul*  
*Leonard David Druskin, Minneapolis*  
*Frederick James Dugan, Minneapolis*  
*Noel Laurence Dunn, St. Paul*  
*Donald George Dunshee, Minneapolis*  
*Mary Ellen Durant, Minneapolis*  
*Laverne Dale Dykema, Willmar*  
*Dale Eugene Dzubay, Minneapolis,*  
 MAGNA CUM LAUDE  
*Jane Frances Eagleson, Tigard, Ore.*  
*Lynne St. Pierre Eaton, Rochester*  
*John Phillips Ebin, Minneapolis*

David Benson Eckholdt, Minneapolis  
 Kenneth Martin Eells, Paynesville  
 Bruce Raymond Eide, Minneapolis  
 David Benjamin Eide, Glenwood  
 David Lowell Ekstrand, St. Paul,  
 MAGNA CUM LAUDE  
 Daphne Joan Ellis, A.L.A., Regina,  
 Saskatchewan, Canada, CUM LAUDE  
 Mary Margaret Emerson, Minne-  
 apolis, MAGNA CUM LAUDE  
 George Earl Emrick, North Oaks  
 John Hamilton Engle, West St. Paul  
 Lowell Dean Erickson, Alexandria  
 Warren Hill Erickson, Virginia  
 Richard Leland Ernst, Rochester,  
 CUM LAUDE  
 Marion Elizabeth Essex, Rochester  
 Judith Ann Essig, Minneapolis  
 David Powell Fairbrother, Minne-  
 apolis  
 James Russell Farina, New Buffalo,  
 Mich.  
 Patrick Anthony Farrell, South St.  
 Paul, CUM LAUDE  
 Solomon Marvin Feldman, Chelsea,  
 Mass.  
 John Robert Ferguson, Rochester  
 Albert John Ficke, Minneapolis  
 Florence Wilhelmina Finch, Pen-  
 gilly  
 David Darrell Finne, Jr., Minne-  
 apolis  
 Markham Jerome Fischer, Owatonna  
 Paul John Fitzgerald, Minneapolis  
 Gerald Joseph Fleetham, Minne-  
 apolis  
 Ronald Stephen Fleischer, St. Paul  
 Carol Elizabeth Foertsch, Minne-  
 apolis, CUM LAUDE  
 Leo Joseph Fogarty, St. Paul  
 David Ross Foreman, Paynesville  
 Curtis Hobert Foster, Garvin, CUM  
 LAUDE  
 David Blackwell Fowler, St. Paul  
 Perley Jean Frazier, Corvallis, Ore.  
 Karen Joan Fredell, A.A., Hector  
 Richard Dwyer Fredlund, Minne-  
 apolis  
 Joanne Karen Fremstad, A.L.A.,  
 Minneapolis

Susan Jane French, Minneapolis  
 David Irvin Friedman, Minneapolis  
 Judith J. Edelston Fryer, Minne-  
 apolis  
 William Boles Gallagher, Minne-  
 apolis  
 Sandra Jane Gendron, Brainerd  
 Harry Whiting Genet, Yucaipa, Calif.  
 Frank Geretz, Minneapolis, MAGNA  
 CUM LAUDE  
 Jacqueline Marlene Germann, St.  
 Paul  
 Donald Richard Gillies, Minneapolis  
 Richard Lloyd Gilyard, Minneapolis  
 Barry Irwin Glassman, St. Paul  
 John Sherwin Godes, St. Paul, MAGNA  
 CUM LAUDE  
 Elizabeth Ann Godley, St. Louis  
 Park  
 Richard David Goff, St. Paul  
 Howard Lee Goldberg, Minneapolis  
 George Bernard Graen, Minneapolis  
 Donald J. Grafenstein, A.M.S.,  
 Stillwater  
 Paul Edward Graff, Britton, S.D.  
 Daniel Martin Graham, Excelsior  
 Judith Elinor Granquist, Minneapolis,  
 CUM LAUDE  
 Gerald Gene Granroth, Detroit Lakes  
 Gary Robert Granzberg, St. Paul,  
 CUM LAUDE  
 Stanley Howard Green, Duluth  
 Barbara Mae B. Greer, St. Paul  
 Roger Edward Grow, Faribault  
 David Lee Guss, St. Paul  
 Nancy Eleanor Gustafson, Eau Claire,  
 Wis.  
 Dale Robert Haaheim, Richfield,  
 MAGNA CUM LAUDE  
 Marcia Louise Hagen, St. Paul  
 James Lee Halverson, Robbinsdale  
 Mary Elizabeth Hamlin, Minneapolis  
 Paul Mills Hammersten, St. Paul  
 Daniel Arthur Hanel, A.A., Mankato  
 Edward Charles Harrington, Beloit,  
 Wis., CUM LAUDE  
 Thomas William Harris, A.A., Min-  
 neapolis  
 Katherine Anne Hart, Minneapolis

Ronald L. Haskvitz, A.L.A., Minneapolis, CUM LAUDE  
 John Mervyn Hatton, Minneapolis, MAGNA CUM LAUDE  
 Terrance Earl Hayne, A.A., St. Paul  
 Priscilla Ann Hedlund, Minneapolis  
 Ann Reynolds Helgeson, Minneapolis, CUM LAUDE  
 James Ralph Helland, Anoka  
 Jon Andrew Helstrom, Duluth  
 Joanne L. Hendrickson, Minneapolis  
 Emily Henning, St. Cloud, SUMMA CUM LAUDE  
 Robert Fredric Hervey, Winona  
 Winfred Scott Herzog, Hopkins  
 Sheldon Thomas Hess, Austin  
 Judith Anne Hcymer, Wayzata  
 Gerald Curtis Higgins, Excelsior  
 Julie Kay Hoag, Mound  
 Harold James Hofstrand, St. Louis Park, MAGNA CUM LAUDE  
 Jerald Victor Holma, Minneapolis  
 Sandra Lynne Holman, Madison, Wis.  
 Patricia Anne Holmer, Wayzata  
 Kenneth Lyle Holmgren, Minneapolis  
 Loren Frederick Holste, St. Paul  
 Leda Kay Holt, St. Paul  
 Richard Herbert Holt, Minneapolis  
 Wallace Dale Holznagel, Minneapolis  
 Elizabeth Marie Hoppe, Minneapolis  
 Margaret Eileen Horsnell, Moose Lake  
 James William Howie, Minneapolis  
 Judith Marie Huffer, Hibbing  
 Shirley Mac Hummel, St. Paul  
 Donald Forrest Hunter, St. Paul, CUM LAUDE  
 Kathleen Dorothy Hynes, Winnebago  
 Carlyle E. Hystad, St. Paul  
 Karl Flint Jacobs, Minneapolis  
 Michael Lawrence Jann, Minneapolis  
 John Richard Jantzen, South St. Paul  
 Duchess Marie Jett, Oklahoma City, Okla.  
 Bruce Elwood Johnson, Minneapolis, CUM LAUDE  
 Colleen Marie Johnson, Benson  
 Richard Vincent Johnson, Minneapolis  
 Rodney Ernest Johnson, Chisholm  
 Roger Frederick Johnson, Minneapolis  
 Ronald Norman Johnson, St. Louis Park  
 Garth T. Johnston, Mora  
 Gary H. Jones, Owatonna  
 Kay Ruth Jordan, Austin, CUM LAUDE  
 James Robert Josephs, Kensington  
 Linda Marie Joyce, Minneapolis  
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 Shirley Ann Rosenblum, St. Paul,  
     WITH DISTINCTION  
 Mary Joan Stempf Ryshavy, Minne-  
     apolis  
 Richard Lee Sadler, Fairfax  
 Marilynn Jean Sage, St. Paul  
 Judith Ann Sager, Minneapolis, WITH  
     DISTINCTION  
 Richard Peter St. Germain, St. Paul,  
     WITH HIGH DISTINCTION  
 Joseph Nusier Salem, Sioux Falls,  
     S.D.  
 Donna Rae Salmon, Minneapolis  
 Nancy Belle Sandvik, B.A., Minne-  
     apolis  
 Dennis Edward Sarenpa, Cokato  
 Ramedo Joseph Saucedo, B.A., St.  
     Paul  
 Jill Walters Saxton, Minneapolis,  
     WITH DISTINCTION  
 LaForrest Jill Schasker, Elbow Lake  
 Karen Mildred Schelin, Glenwood

Ruby Augustine Schlueter, Lake City,  
WITH DISTINCTION

Marie Marquardt Schmidt, Minne-  
apolis

Marion Kay Schmitt, St. James

Susanna Marcella Schmitt, St. Paul

Henry Alan Schmucker, B.A., Minne-  
apolis

Scott Carney Schuck, Minneapolis

Joan Ruth Schultz, Rochester

Margaret Ann Schwab, Minneapolis

Lowell David Schwalbe, Mound

Robert James Schwarzkopf, St. Paul,  
WITH DISTINCTION

Shirley Ann Sharrow, Minneapolis

Charlotte Leona Sheets, Tracy

Mary Peck Sheets, Herman

Alan Edward Sherman, B.A., Minne-  
apolis

James Lee Sherwood, Pine River

Mary Lee Short, B.A., Minneapolis

Duane Lee Sibbers, A.A., Austin

Jane Frances Sidlo, Minneapolis,  
WITH DISTINCTION

Marilyn Rose Silver, Minneapolis

Janet Elaine Silverness, Mondovi,  
Wis., WITH DISTINCTION

AliceJean Gwenelda Skyberg, Fisher

Ronald James Smallidge, St. Paul Park

Gertrude Dora Smilich, Deerwood

Betty Cutting Smith, B.A., Blooming-  
ton

Marilyn Patricia Smith, Minneapolis

Phebe Jane Smith, Minneapolis

Judith Ann Soderberg, Minneapolis

Anita Maureen Soine, Minneapolis

Ruth Betsy Spiegel, Minneapolis

Joy Dibble Spurrell, B.A., St. Paul

Gretchen Ann Stabbert, Faribault

Janyce Laurine Stanchfield, Minne-  
apolis

Margaret Mae Stangler, Coleraine

Shari Ann Steffen, St. Louis Park,  
WITH DISTINCTION

John Mathew Stone, St. Paul

Sandra Stone, Glenwood

Gary Everett Stoos, Faribault, WITH  
DISTINCTION

Carol Christine Stoppelmann, Belle  
Plaine

Alice Mae Studt, Braham

Arlene Edith Suchla, A.L.A., Minne-  
apolis, WITH DISTINCTION

S. Michael Suplick, Robbinsdale

Charlotte Eleanor Swanberg, Monte-  
video

Irvin Donald Swanson, Cook, WITH  
HIGH DISTINCTION

Sharon Marie Swanson, Minneota

Cletus Albert Swintek, Little Falls,  
WITH DISTINCTION

Barbara Morgan Tallman, Hopkins

James Ellsworth Telander, Mora

Janet Ann Swenson Thomas, Minne-  
apolis, WITH DISTINCTION

Mary Louise Thompsen, Minneapolis

Marguerite Ann Thompson, Minne-  
apolis

Alexandra Tkach, Columbia Heights,  
WITH DISTINCTION

Maret Lucille Trader, Richfield

Sonja Eline Ulsaker, B.A., Battle  
Lake, WITH DISTINCTION

John Lyman Upthegrove, Superior,  
Wis.

L. Janice Bixby Vance, Minneapolis

Elaine Beatrice VandeGrift, Austin

Elaine Elsie Veit, A.A., Milroy

Roberta Louise Velin, White Bear  
Lake

John Robert Vergoth, A.A., Eveleth

Leo Joseph Verrett, Jr., Minneapolis

Esther Lorraine Vincent, Minneapolis,  
WITH DISTINCTION

Karen Elizabeth Waag, Roseau

Jacqueline Mary Wachs, Minneapolis,  
WITH DISTINCTION

Aber Calvin Wahl, Westbrook

Emily Elaine Wahlberg, A.A., Ely

Patricia Ann Wahlgren, Akron,  
Mich., WITH DISTINCTION\*

Elizabeth Margaret Wakefield, Hart-  
land

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\* Nursing Education Curriculum

Pamela Katherine Walther, Minneapolis  
 Gerald Martin Warkel, B.A., St. Paul  
 Georgianne Dell Warren, Minneapolis  
 Patricia Ann Watkins, Hamel  
 Goldie Anne Weigl, Slippery Rock, Pa.  
 Virginia Ann Weispfenning, Henning  
 Ann Elizabeth Wells, Duluth  
 Elizabeth Ann Wempner, Plainview  
 Barbara Ann Wilcken, Minneapolis,  
 WITH DISTINCTION  
 Rose Mary Willey, Callaway  
 Carrie Jill Williams, Osseo  
 Pearl Welch Wilson, Minneapolis,  
 WITH DISTINCTION

Natalie Winer, Chicago, Ill., WITH  
 DISTINCTION  
 Mary Ebba Witkus, Outing  
 John Richard Wolf, New Ulm  
 Dianne Louise Wothe, Redwood  
 Falls  
 Mae Franklin Wright, Minneapolis  
 Margaret Ruth Wright, White Bear  
 Lake  
 Ruth Claudia Eidnes Yanacek,  
 Wayzata, WITH DISTINCTION  
 Jerome Richard Zaeska, Atwater  
 Rute Maija Zarins, Minneapolis

## Master of Education

Mary Caroline Bock, B.S.N., Sioux  
 Falls, S.D.  
 Lois Lilleby Fielding, B.S.N., Min-  
 neapolis  
 Kyung He Kim, B.S., Seoul, Korea  
 Khin Kyi, B.S., Rangoon, Burma  
 Mary Margaret Lamb, B.S., St. Paul

James Russell Myers, B.S., Buffalo  
 Nenita Mationg Pilapil, B.S., Aklan,  
 Philippines  
 Harriett Mary Rossi, B.S., Morris, Ill.  
 Savallah Shields, B.S., Annandale  
 John Stuart Wallingford, Minneapolis

# COLLEGE OF EDUCATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

## Bachelor of Science

David Olaf Alberg, Cromwell, Agri-  
 cultural Education  
 Marlene Joan Andersen, Hopkins,  
 Home Economics Education  
 Beverly Jean Anderson, Forest Lake,  
 Home Economics Education  
 Nancy Jayne Anderson, Richfield,  
 Home Economics Education  
 Marjorie Joan Banks, St. Paul, Home  
 Economics Education

Maureen Elizabeth Bartholomew,  
 Wayzata, Home Economics Educa-  
 tion, WITH DISTINCTION  
 Donald William Beise, Buffalo, Agri-  
 cultural Education  
 Janice Shirley Benda, Mountain Lake,  
 Home Economics Education  
 Eugene Edwin Bieraugel, Lafayette,  
 Agricultural Education  
 Margaret Lillian Birk, Rockville,  
 Home Economics Education

- Ruth Marie Bjostad, Duluth, Home Economics Education
- Patricia Marie Brown, Grand Rapids, Home Economics Education, WITH DISTINCTION
- Donnell Vernon Buck, Zumbrota, Agricultural Education, WITH DISTINCTION
- Julie Marie Dupere, Minneapolis, Home Economics Education, WITH HIGH DISTINCTION
- Lois Maurine Erickson, Badger, Home Economics Education
- Barbara Carol Goranson, Minneapolis, Home Economics Education, WITH HIGH DISTINCTION
- Donald Richard Haugland, Spring Grove, Agricultural Education
- Diana Jean Druley Hofmann, Minneapolis, Home Economics Education
- Louis John Jelinski, Little Falls, Agricultural Education
- Norman Joseph Jensen, Lakeville, Agricultural Education
- Donald Attler Johnson, Oak Park, Agricultural Education
- Margaret Jean Jovaag, Mankato, Home Economics Education
- Thomas Otto Kajer, New Prague, Agricultural Education
- Gerald Peter Keller, Tenney, Agricultural Education, WITH DISTINCTION
- Shirley Patricia Lake, Aitkin, Home Economics Education
- Audrey Elaine Leeseberg, Parkers Prairie, Home Economics Education
- Ila Faye Lindelien, Grand Meadow, Home Economics Education
- Harvey Ervin Lorentz, Annandale, Agricultural Education
- Darlene Ruth Lundquist, Stephen, Home Economics Education
- Virginia Margaret Mahannah, St. Paul, Home Economics Education
- Sharon Kathleen McComb, Minneapolis, Home Economics Education, WITH HIGH DISTINCTION
- Lawrence John Meyer, Sauk Centre, Agricultural Education
- Constance Ruth Miller, St. Paul, Home Economics Education
- William N. Moser, Shell Lake, Wis., Agricultural Education
- Sharonne Lou Neitzel, Morton, Home Economics Education
- Janice Marie Nelson, Pine River, Home Economics Education
- LeRoy Oliver Omland, Kensington, Agricultural Education
- Carl Victor Petersen, Minneapolis, Agricultural Education
- Lyle David Phelps, Ellendale, Agricultural Education
- Barbara A. Phillips, Minneapolis, Home Economics Education
- Dennis Milton Rossell, Spicer, Agricultural Education
- Anne Marie Rubis, Grove City, Home Economics Education
- Carol Victoria Sander, St. Paul, Home Economics Education
- Sharon Rosalie Schroeder, Eagle Bend, Home Economics Education
- Merlin D. Skretvedt, Gary, Agricultural Education
- Rita Mae Stevermer, Wells, Home Economics Education
- Eugene Gilbert Tolzman, Pemberton, Agricultural Education
- Robert William Warmka, Easton, Agricultural Education
- Britt Caroline Wedin, Minneapolis, Home Economics Education, WITH DISTINCTION
- Leland Gale Wilken, Princeton, Agricultural Education
- Mary Winter, Redwood Falls, Home Economics Education, WITH HIGH DISTINCTION

# SCHOOL OF BUSINESS ADMINISTRATION

## Bachelor of Business Administration

Alfred Andrew Anderson, Minneapolis  
Richard Arnold Anderson, Minneapolis

Donald Aaron Berglund, Isanti, WITH  
DISTINCTION

Michael Arnold Beske, Minneapolis  
Eugene Frank Blanski, Minneapolis  
Donald William Blattie, St. Paul  
Eldred Gene Boze, Detroit Lakes  
Orlin Lowell Braun, Rothsay  
Ralph Eugene Broman, Minneapolis  
James Wallace Brown, St. Louis Park  
William Roy Christensen, Austin,

WITH HIGH DISTINCTION  
Karmon Leonard Christopherson,  
Fergus Falls

Charles Henry Colby, Minneapolis  
Thomas Herbert Denesen, St. Paul  
Dennis Warren Dienst, Minneapolis  
August Peter Dorflinger, New Hyde  
Park, N.Y.

Robert Paul Eckhoff, St. Paul  
Barry Henry Effress, St. Paul  
William Frank Ellis, A.L.A., Minne-  
apolis

Robert Harold Engelhart, Minne-  
apolis

Peder Corwin Erickson, Moose Lake  
Jack Fidelman, Minneapolis  
James Dennis Fieger, Minneapolis  
David Miller Gilman, Minneapolis  
Jerome Francis Hawkins, St. Paul  
Paul Richard Henry, St. Paul Park  
Charles Willard Hicks, St. Paul  
James Bernard Hove, Isanti  
Gerald Robert Hovey, St. Paul  
Darrel Roy Johnson, Minneapolis  
Douglas Kay Johnston, A.A., St. Paul  
Larry Gale Jones, Mankato

Robert Gordon Jones, St. Louis Park  
Harvey Frederick Kaplan, St. Paul  
Alton Lyle Kollmann, St. Paul  
Dellos Allan Kopesky, Hopkins  
Peter John Kovacs, South St. Paul  
Richard Roy Lammers, Minneapolis,

WITH DISTINCTION

Raymond Michael Lazar, Minneapolis  
Ronald Dean Lewison, Greenville,  
Iowa

Kenneth Robert Lund, Hibbing  
Paul Joseph Marschall, Hastings  
Thomas George Metzger, Hastings  
Dowlan Richard Nelson, Minneapolis  
Ronald Jay Nemer, B.S.L., St. Paul,  
WITH DISTINCTION

James Albert Norris, Jr., A.A., Rob-  
binsdale

Arthur Melvin Olson, Marshall  
Lee Lafayette Palmer, B.S., Minne-  
apolis

David Edward Pearson, Minneapolis  
Deanna Duel Peterson, Austin  
Dennis Lee Peterson, Chisago City,  
WITH DISTINCTION

Peter Leo Peterson, Grasston  
Donald Russell Piffner, St. Paul  
James Carl Pontious, Edina  
Paul Harry Ravich, Los Angeles,  
Calif., WITH DISTINCTION

Michael Reich, Minneapolis  
Richard Dwight Reichow, Minne-  
apolis

Chester Leonard Rimarcik, Minne-  
apolis

Thomas August Rosengren, Minne-  
apolis

Roger Curtis Sathre, A.A., Minne-  
apolis

Richard Lowell Schroeder, Lakeville  
Charles David Schroyer, St. Paul  
Harvey Allen Slettedahl, Granite  
Falls

John Sluck, LL.B., Taylor, Pa.  
Richard Michael Sperle, St. Paul  
James Richard Sponsler, A.A., Spring-  
field, Ill.

Harvey Bert Sunt, Minneapolis  
Richard Alexander Swanson, Minne-  
apolis

Ronald Leroy Tate, Clinton  
Darvin Arlo Torgrimson, Fosston  
Douglas William Virnig, Minneapolis

Alan Perry Wahlin, Alexandria  
Matthew Laird Theodore Waldor, St.  
Paul  
John Paul Wanninger, Minneapolis

Tedd Merton Ward, Navarre  
Charles Earle West, Hancock  
Gladys Mary Westergard, Richfield

## Bachelor of Science in Business

Brian Allen Anderson, Minneapolis  
Bruce Elder Anderson, Minneapolis  
Francis Oscar Anderson, Brandon  
James Aldridge Beecroft, St. Paul  
Jerrold Franklin Bloom, Minneapolis  
Dennis Albert Bowman, St. Paul  
Walter John Brinkman, B.S., Eau  
Claire, Wis.  
John Christian Burkness, Minneapolis  
*Darold DuWayne Burris, Fergus  
Falls, WITH HIGH DISTINCTION*  
Gary Harlan Campbell, Minneapolis  
Bruce Warren Christopherson, Clark-  
field  
Lawrence Dandurand, Hopkins  
Jon Bruce Engfer, Minneapolis  
Thomas Richard Fleisher, Minne-  
apolis  
Philip Ambrose Flugum, B.A., Min-  
neapolis  
William Seacrist Forschner, Hopkins  
Charles Maurice Francis, Moorhead  
*Elmer Clifford Guestchoff, St. Paul,  
WITH DISTINCTION*  
Harold Emanuel Halvorsen, Minne-  
apolis  
William Otto Hammargren, Virginia  
Merrill Jon Hansen, Minneapolis  
Paul Dean Hansen, Minneapolis  
*Kenneth Edward Hanson, Farming-  
ton, WITH DISTINCTION*  
Ronald Orville Hostad, Crystal  
Richard LeRoy Jacobson, Edina  
Wencel Willis Johnston, Hopkins  
Charles David Jones, Minneapolis  
Richard Donald Kampa, St. Paul  
Willard Fredrick Kiesner, Jr., St. Paul  
Dewey John Kulzer, Jr., Owatonna  
Neil Oliver Lee, Fergus Falls  
Ronald Joseph Leif, Minneapolis  
David Wilson Lewis, Jr., Minneapolis  
James Patrick Loaney, Minneapolis

*Raymond John Ludwig, Brainerd,  
WITH DISTINCTION*  
Thomas Carl Lunacek, Minneapolis  
Alan MacDonald, Dunedin, Fla.  
Lyle Richard Majeske, Minneapolis  
Charles Hario Maland, Minneapolis  
*Dana X. Marshall, Braham, WITH  
DISTINCTION*  
Ernest Ralph Melby, Dalton  
Ingo Metusalem, Reykjavik, Iceland  
Jerry Arthur Miller, Preston  
Hans Mirka, A.L.A., St. Paul  
Gary Lee Nelson, Minneapolis  
Jon Michael Nelson, Minneapolis  
Stephen Phillip Nelson, Minneapolis  
*Wayne Jerome Nelson, Las Vegas,  
Nev., WITH DISTINCTION*  
Malcolm Edward Nicholson, A.A.,  
Minneapolis  
John Dennis Nolan, Minneapolis  
Leo Joseph O'Brien, Minneapolis  
Keith Stener Olson, DeGraff  
Philip Harley Olson, Minneapolis  
David Alexander Opgrand, Halstad  
Gordon John Osfalg, St. Cloud  
Lyman Ellis Ostlund, Pelican Rapids  
Donald Eugene Pelletier, Jr., Minne-  
apolis  
Gerald Edward Peterson, St. Paul  
James George Phillipe, Cokato  
Gary Lee Phleger, Glen Lake  
Bradley David Platt, Albert Lea  
Ralph Warner Pysick, Minneapolis  
James Ernest Rice, Minneapolis  
*John Walter Rixe, Edina, WITH DIS-  
TINCTION*  
Terry Owen Romundstad, White  
Bear Lake  
David George Ruemmele, St. Paul  
Max Rukavina, Coleraine  
*Karen Marie Rutherford, Albert Lea,  
WITH DISTINCTION*

Theodore Francis Ryan, St. Louis Park  
 Robert Winslow Sailstad, Red Wing  
 Roger Charles Sattler, Minneapolis  
 Leon Eugene Sawyer, St. Paul  
*Philip Wayne Schasker, B.S. with  
 distinction, Lake City, WITH DIS-  
 TINATION*  
 Roger Lowell Schlaepfi, Minneapolis  
 Robert William Schmidt, Minneapolis  
 Dan Frederick Schultz, Elkton, Mich.  
 Gordon Henry Seashore, Minneapolis  
 John Arthur Shomion, St. Paul

Walt Harold Sirene, Edina  
 James Orville Sjostrand, Hallock  
 Richard Irwin Skolnick, Minneapolis  
 Bruce Gordon Uno Swanson, St. Paul  
 Thomas F. Swearingen, Winona  
 Larry Joseph Terneus, Minneapolis  
 John Dale Tietz, La Crescent  
 Roger Karl Tromanhauser, Minne-  
 apolis  
 Jean Bernard Velander, A.A., Minne-  
 apolis  
 John Herbert Werner, St. Paul

## Bachelor of Science in Economics

James Howard Hagen, Minneapolis  
 Larry Jay Lee, Minneapolis  
 Garrett Ray Nelson, Eau Claire,  
 Wis.

*James Ferdinand Pritchett, St. Paul,  
 WITH DISTINCTION*  
*James Nelson Rosse, Minneapolis,  
 WITH HIGH DISTINCTION*

## SCHOOL OF BUSINESS ADMINISTRATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

### Bachelor of Agricultural Business Administration

Robert John Berkner, Mahanomen  
 Richard Harold Hanson, Minneapolis  
 Samuel Shackelford Marfield,  
 Wayzata

Duane Arnold Olsen, St. James  
 Charles Edward Routhe, Redwood  
 Falls  
 Duane Rudolph Zaun, Jordan

## COLLEGE OF PHARMACY

### Bachelor of Science in Pharmacy

Ronald Walter Agerter, West  
 Concord  
 Donald Dean Dolden, Rochester  
 Ernest Junior Dornfeld, B.B.A., Min-  
 neapolis  
 Donald Philip Finnesgard, Kenyon  
 Sharon Kay Fuller, Ivanhoe  
 Bruce Alcott Gray, Brainerd  
 William John Janecek, West St. Paul

L. G. Johnston, Minneapolis  
 Dennis LeRoy Larson, Wyoming  
 Robert Emil Luedke, Kenyon  
 Merle Dennis Mattson, Moose Lake  
 Patricia Jane McGinty, Wayzata  
 Waldo Ray Narr, Minneapolis  
 John Richard Omacht, Osakis  
 John Edward Palmquist, Minneapolis  
 Garry Robert Persons, Edina

Carol J. Requa, Austin  
Bruce LeRoy Reveling, Minneapolis  
Charles Frederick Richards, Duluth  
Juanita Frances Rothfork, Norwood  
Richard Allen Schlorf, White Bear  
Lake  
Gerald Paul Schotik, St. Paul  
James Frederick Schwarten, Braham  
William James Scott, Minneapolis  
Stephen Curt Sommer, Minneapolis

Ronald Eugene Stager, Clara City  
Dean Paul Sundberg, St. Paul  
Richard Clair Sundberg, International  
Falls  
Marvin Edward Twernbold, West  
Concord  
Allen Clet Weinberger, St. Paul  
Dennis Eugene Wetter, B.A., Minne-  
apolis

## LAW SCHOOL

### Bachelor of Science in Law

Donald William Elliott, Minneapolis  
Norman Walther Larsen, Fosston  
Howard Allen Patrick, Minneapolis

Victor Paul Seiler, Minneapolis  
Stephen Brent Swartz, Minneapolis

### Bachelor of Laws

James Richard Albrecht, B.A.,  
St. Paul  
John F. Bannigan, Jr., B.A., St. Paul  
Duncan Gary Barr, B.A., Breckenridge  
James Clifford Beckstrom, B.S.L.,  
Minneapolis  
Robert Wallace Boyd, B.S.L., Duluth  
William Fern Brooks, Jr., B.A., Min-  
neapolis, CUM LAUDE  
John L. Burbidge, Stanley, N.D.,  
CUM LAUDE  
Ralph Racco Chiodo, B.B.A., Cum-  
berland, Wis.  
Louis Waldemar Claeson, Jr., B.S.L.,  
Minneapolis  
Andrew William Danielson, B.S.L.,  
St. Paul  
Justin Dingfelder, A.L.A., B.B.A.,  
Minneapolis  
David Singleton Doty, B.A., Minne-  
apolis, CUM LAUDE  
Terence Nicholas Doyle, B.A., Minne-  
apolis, CUM LAUDE  
James M. Duenow, B.A., Austin

William Bernard Edwards, B.S.L.,  
Minneapolis  
Roland Joseph Faricy, Jr., B.B.A.,  
St. Paul  
Harold Alexander Frederick, B.A.,  
Duluth  
Murray Lawrence Galinson, A.L.A.,  
B.A. cum laude, St. Louis Park,  
CUM LAUDE  
Donald LeRoy Garbrecht, B.A., St.  
Paul  
James Gilbert Gilbertson, B.S.L.,  
St. Peter  
Lloyd Graven, B.A., Greene, Iowa,  
CUM LAUDE  
John Spaulding Hale, B.B.A., Minne-  
apolis, CUM LAUDE  
Richard Rebne Hansen, B.B.A., Min-  
neapolis, CUM LAUDE  
Edward Ardell Harvey, Minneapolis  
Richard Cheney Haugland, B.A.,  
Minneapolis  
Sandra Jaye Heims, B.A., Minneapolis,  
CUM LAUDE

Richard Christian Hiniker, B.A., Le Sueur  
 Lynn James Hummel, B.S.L., Minneapolis  
 Paul Oren Johnson, B.A., Minneapolis, CUM LAUDE  
 Dixon Elliott Jones, A.A., B.B.A., Minneapolis  
 Stanley Earl Karon, B.B.A., St. Paul, CUM LAUDE  
 Paul Harlan Klaverkamp, B.S.L., Mankato  
 Laurence Francis Koll, B.A., Winona  
 William Edward Kretschmar, B.S., Venturia, N.D., CUM LAUDE  
 Norman Walther Larsen, Fosston  
 John Francis Laue, B.S.L., Minneapolis  
 William Joshua Lockhart, B.A., Minneapolis, CUM LAUDE  
 Howard Sheldon Marker, B.A., Minneapolis  
 Patrick James McPartland, B.B.A., Minneapolis  
 Curtis Leroy Melberg, B.S.L., St. Paul, CUM LAUDE  
 Joel Treat Mitchell, B.S., Duluth  
 Ronald Jay Nemer, B.S.L., St. Paul, CUM LAUDE  
 Stephen Glos Nordquist, B.A. cum laude, Minneapolis, CUM LAUDE  
 William Lambert Orr, B.A., Minneapolis  
 Philip James Orthun, B.A., Virginia, MAGNA CUM LAUDE  
 Howard Allen Patrick, Minneapolis  
 Gary Evans Persian, B.S.L., Minneapolis  
 George Andrew Perzel, B.A., Minneapolis  
 William John Platzer, B.S.L., Minneapolis  
 Wayne Albin Pokorny, B.S.L., Silver Lake  
 John Dale Rice, B.S.L., Caledonia  
 James Raymond Riley, Jr., B.A., Minneapolis  
 William Charles Schlafge, B.B.A., Edina  
 Thomas Alfred Shannon, B.S., Minneapolis  
 Michael John Sheahan, B.S.L., St. Paul  
 Harlan Elliott Smith, A.L.A., B.S.L., Minneapolis  
 Gene R. Sommers, B.S.L., Minneapolis  
 Robert Allen Stein, B.S.L., Minneapolis, SUMMA CUM LAUDE  
 Ralph Donald Stenseth, B.S.L., Chisholm  
 Robert John Struyk, B.A., M.A., Boyden, Iowa, CUM LAUDE  
 Stephen Brent Swartz, Minneapolis, CUM LAUDE  
 David Verne Trask, B.Met., Crystal  
 Theodore N. Treat, Jr., B.S., Minneapolis  
 John Trygve Troan, B.S.L., Minneapolis  
 Lynn George Truesdell III, B.A., Minneapolis  
 Russell E. Utermarck, B.A., Wadena  
 Mark John Vieno, B.S.L., St. Petersburg, Fla.  
 David R. Von Holtum, B.A., Lismore  
 Fred James Voss, Jr., B.A., Duluth  
 Marquis L. Ward, Jr., B.B.A., Cloquet  
 Eugene Norman Weidner, A.A., B.A., Reading, Pa.  
 Robert Bartel Whitlock, B.S.L., Minneapolis  
 Richard Leon Young, B.A., Minneapolis

## Master of Laws

Noor Mohammad, M.A., LL.B., India

# COLLEGE OF VETERINARY MEDICINE

## Bachelor of Science

John Robert Aldrich, Buffalo  
*Richard King Anderson, Helena, Mont., WITH DISTINCTION*  
*Terry Michael Boldingh, Breckenridge, WITH HIGH DISTINCTION*  
Edwin Sylvester Brokken, Jr., Harmony  
*Charles Henry Casey, St. Paul, WITH HIGH DISTINCTION*  
William Lyle Collins, Minneapolis  
Robert Paul Cotter, Minneapolis  
Terry Ray Cowan, St. Paul  
*Jerry Jay Cummings, Wells, WITH DISTINCTION*  
Alois Anthony Damer, Belgrade  
*James Norman Dougherty, Ettrick, Wis., WITH HIGH DISTINCTION*  
*Richard Arthur Faulkner, Woodruff, Wis., WITH DISTINCTION*  
John James Flynn, St. Paul  
Allan B. Fredrickson, St. Paul  
Ralph James Ganz, Swanville  
Herbert M. Halverson, Lafayette  
*Larry Joseph Hei, Plum City, Wis., WITH HIGH DISTINCTION*  
Richard V. Huston, Danvers  
*Dean Elwood Jensen, Lake Preston, S.D., WITH HIGH DISTINCTION*

Todd D. Johnson, Clara City  
John Raymond Kunkel, Kimball  
Gerald Arthur Lahmers, Eyota  
*William John Magee, Little Falls, WITH DISTINCTION*  
Harlan Gary Manguson, Tracy  
*Gerald Joseph Miller, Austin, WITH DISTINCTION*  
Donald Dean Minnick, Montevideo  
John William Nelson, St. Paul  
James Alfred Nordstrom, Fort Meade, S.D.  
Lowell Duane Olson, Kiester  
George Charles Palmer, Granite Falls  
Edmund Lawrence Pavek, Waubun  
Kenneth Albin Peterson, Brownton  
Clarke Maynard Poad, Hancock, Wis.  
David Herman Schaer, Owatonna  
*Charles John Smith, Park Rapids, WITH HIGH DISTINCTION*  
*Dennis Charles Stresemann, Winthrop, WITH DISTINCTION*  
James Alvin Swenson, Jasper  
James Thomas Tammeus, Brewster  
James Earnest Wheeler, St. Paul

## Doctor of Veterinary Medicine

Neil Vincent Melvin Anderson, B.S., St. James  
Ronald Dwain Anderson, B.S., Halstad  
Miles Huxtable Bairey, B.S., Chamberlain, S.D.  
John Bakker, B.S., Chandler  
Frederick Charles Bergwardt, B.S., Hopkins  
William Theodore Burke, B.S., Lakefield  
Donna Lorraine Denboer, B.A., B.S., St. Paul

Rodney Lewis Ellefson, B.S., Garretson, S.D.  
Delvin Clyde Feistner, B.S., Woonsocket, S.D.  
Thomas Frederick Field, B.S., Minneapolis  
Paul Henry Fynskov, B.S., Osakis  
Charles Dean Gibson, B.S., Onamia  
Mylo Maurice Hagberg, B.S., Fariabault  
Ronald Bernard Hass, B.S., Tenstrike  
Duane Eugene Hilmas, B.S., Virginia  
Duane Edgar Huwe, B.S., Benson

Ralph Arnold Johnson, B.S., Granada  
 Aanon Rolf Jore, B.S., Houston  
 Hans Sanford Kalinka, B.S., Wau-  
 paca, Wis.  
 Simon James Kowahl, B.S., Indepen-  
 dence, Wis.  
 George Henry Krienke, B.S., Wausau,  
 Wis.  
 Clifford Carl Laurence, B.S., Hanska  
 Donald Wayne Luchsinger, B.S.,  
 Onamia  
 Warren William Marquardt, B.S., Er-  
 hard  
 Hilarius Theodore Mohr, B.S., New  
 Ulm  
 Bruce Al Muggenburg, B.S., Sioux  
 Falls, S.D.  
 Rodney Foster Neubert, B.S., Man-  
 kato  
 John Andrew Newman, B.S., St. Paul  
 Ralph Arden Nordine, B.S., Lan-  
 caster  
 Henry Arthur Pattison, B.S., St. Paul  
 Wayne Russell Peterson, B.S., Min-  
 neapolis  
 Bennett Jay Porter III, St. Louis Park  
 Richard Henry Richards, B.S.,  
 Herman  
 Harold Oscar Rud, Minneapolis  
 Philip Michael Salem, B.S., Spear-  
 fish, S.D.  
 David Peter Sanger, B.A., B.S.,  
 Mankato  
 Richard Harold Schultz, B.S., River  
 Falls, Wis.  
 Jerry Bruce Stevens, B.S., Minneapolis  
 Edgar J. Taggatz, B.S., Gibbon  
 Charles Orel Thoen, B.S., Harmony  
 Frederick Myron Wells, B.S., River  
 Falls, Wis.  
 Glen George Wolff, B.S., Arlington  
 Robert William Woolsey, B.S., Min-  
 neapolis

## SCHOOL OF DENTISTRY

### Graduate Dental Hygienist

Mary Margaret Akin, Edina  
 Katherine Marie Anderson, Brainerd  
 Marcia Denese Anderson, Bismarck,  
 N.D.  
 Barbara Anne Bair, Eau Claire, Wis.  
 Judy Jane Benson, Marquette, Mich.  
 Barbara Marie Blanich, Crosby  
 Anita Magdelin Bleier, Hudson, Wis.  
 Sandra Catherine Cesarek, Rock Falls,  
 Ill.  
 Elizabeth Marie Colwell, South St.  
 Paul  
 Loretta Ann Curtis, Hopkins  
 Mary Jo Edwards, St. Paul  
 Anne Cecelia Gilbert, Minneapolis  
 Joan Beedy Hart, Excelsior  
 Judy Gail Hasselman, St. Paul  
 Shari Landers Howe, Fulda  
 Karen Elizabeth Johnson, Alexandria  
 Mary Ann Keown, Rapid City, S.D.  
 Lorelei Wasmund Kisling, St. Paul  
 Nancy Blanche Koplin, Red Wing  
 Marilyn Ann Lundberg, Kearney,  
 Neb.  
 Carol Sue McKenzie, Minneapolis  
 Patricia Louise Nelson, Morton  
 Grove, Ill.  
 Lina Neufeld, Minneapolis  
 Carol Jean Petersen, Minneapolis  
 Patricia Joan Peterson, A.L.A., Min-  
 neapolis  
 Karen Margaret Phillips, West St.  
 Paul  
 Barbara Ellen Picha, Minneapolis  
 Georgia Marie Ramsey, St. Paul  
 Sharon Ann Rauschendorfer, Wa-  
 conia  
 Phyllis Eileen Sadusky, Staples  
 Katherine Susan Smith, Eau Claire,  
 Wis.  
 Doris Jean Supplec, Wayzata  
 Judith Lynne Thompson, Minneapolis

Mercedes Lynn Thompson, Eau  
Claire, Wis.

Lynn Barbara Wybest, Circle Pines  
Sharon Carrell Young, Billings, Mont.

## Bachelor of Science

- Judson Hugh Anderson, Minneapolis  
Leonard Henry Arndt, Lewisville  
Robert Lewis Arneson, B.A., M.A.,  
Atwater  
Eugene Ramon Bakalars, La Crosse,  
Wis.  
Douglas Phillips Beedon, B.A., St.  
Paul  
Robert John Beerhalter, Duluth  
William Cowling Bender, Brainerd  
James Richard Bloyer, St. Paul  
Ralph R. Boatman, Hampden, N.D.  
Thomas Edward Butler, B.A., Minne-  
apolis  
Lee Schoening Chapman, Minne-  
apolis  
James Burr Cheever, St. Louis Park  
Robert Palmer Ellingson, Hastings  
Leslie Edward Evans, Sauk Rapids  
Richard Henry Fettig, Crosby, N.D.  
Jerry Lee Fields, Pine River  
James Harold Fjerstad, Pipestone  
Thomas Dean Fleming, Red Wing  
Richard Thornton Ford, B.A., Anoka,  
WITH DISTINCTION  
Tad Garland Gates, Minneapolis  
James Emory Gjerset, Minneapolis,  
WITH HIGH DISTINCTION  
Robert Allen Godfrey, St. Paul  
George Joe Hayano, Minneapolis  
Arnold Joseph Hill, Minneapolis  
Charles Stuebe Hintz, New Ulm  
James Wendell Horst, Moorhead  
Warren William Hunt, St. Paul  
Kip Byron Jentoft, Duluth, WITH  
DISTINCTION  
Malcolm Farrish Johnson, Sherburn  
David Lee King, Winthrop, WITH  
DISTINCTION  
Jerome Harold Kleven, Minneapolis,  
WITH DISTINCTION  
Stephen Arthur Lambourne, Roch-  
ester
- Gary David Lange, B.A., Minne-  
apolis  
Boyd Wayne Langseth, Duluth  
Robert Douglas Lawton, Loretto,  
WITH DISTINCTION  
John Oliver Look, Anoka, WITH DIS-  
TINCTION  
Kenneth Romeo Lorenz, Langdon,  
N.D.  
Daniel Christopher Martin, Spring  
Valley  
Ronald Thomas Nelson, Faribault  
William Henry Newhouse, Jr., St.  
Paul  
Ralph Romer Nielson, Buxton, N.D.  
Gene Paul Nystrom, B.A., Minne-  
apolis  
Robert George Olson, Rapid City,  
S.D.  
Gregory Charles Pappenfus, St. Cloud  
Roger Keith Raduenz, Lucan  
Freeman Newton Rosenblum, St.  
Paul  
Kenneth Donald Salo, Cloquet  
Frank Vernon Searl, Jr., Great Falls,  
Mont.  
Lowell Frederick Sorenson, Albert  
Lea, WITH DISTINCTION  
John Louis Stewart, Minneapolis  
Marlyn Peter Storm, Ortonville  
Gordon Aron Sward, Albert Lea  
Dennis Russell Trampe, Long Prairie  
Donald Anthony Waletzko, Willow  
River  
Thomas Paden Wentworth, B.S.B.,  
St. Paul  
Marvin Glenn Wick, B.A., Duluth,  
WITH DISTINCTION  
Earl Orvil Williams, Minneapolis  
Robert Culver Wright, B.S. Pharm.,  
St. Paul  
Wayne William Wunder, Paynesville

## Doctor of Dental Surgery

- Judson Hugh Anderson, Minneapolis  
Leonard Henry Arndt, Lewisville  
Robert Lewis Arneson, B.A., M.A.,  
Atwater  
Loye Andersen Ashton, B.S., Willis-  
ton, N.D.  
Herbert Stanley Austin, B.S., Minne-  
apolis  
Ronald Wilbur Bailey, Dickinson,  
N.D.  
Eugene Ramon Bakalars, La Crosse,  
Wis.  
Richard Duane Bateson, Hibbing  
Robert John Beerhalter, Duluth  
James Richard Bloyer, St. Paul  
Ralph R. Boatman, Hampden, N.D.  
James M. Boo, B.S., Pine City  
Phillip Arthur Brandeen, B.S., St.  
Paul  
Maurice Leon Burckhardt, B.A., St.  
James  
Charles Henry Buscher, B.S., Brainerd  
Thomas Edward Butler, B.A., Minne-  
apolis  
Lee Schoening Chapman, Minne-  
apolis  
Wallace Lynne Christenson, B.S.,  
Minneapolis  
Thomas Joseph Conlon, B.S., Faulk-  
ton, S.D.  
John Z. Doroschak, B.S., Minne-  
apolis  
Thomas Dean Fleming, Red Wing  
Gary Lee Floyd, B.S., Boise, Idaho  
Edwin Joseph Fong, St. Paul  
Richard Thornton Ford, B.A., Anoka  
Mason Benjamin Frank, B.S., Minne-  
apolis  
Larry Victor Franz, B.S., Mountain  
Lake  
Roger Frank Fredeen, B.S., Isanti  
Owen Neil Germundson, B.S., Karl-  
stad  
Daniel Edward Hanson, B.S., Detroit  
Lakes  
Jerome Kingsley Hanson, B.S., B.A.,  
Appleton  
Gerhard Heinrich Harms, Rapid City,  
S.D.  
Alan Edward Hribar, B.S., Hibbing  
Warren William Hunt, St. Paul  
John Corlis Huntley, B.S., St. Paul  
Paul Howard Iverson, B.S., Willmar  
Delbert Dean Jensen, B.A., B.S., El-  
more  
Roger Louis Jensen, B.A., Lucan  
Karl Louis Kaufman, B.A., Sauk Cen-  
tre  
Stanley Isao Kimura, B.S., Ewa,  
Hawaii  
Richard Dean Kingston, Ogden, Utah  
Jerome Harold Kleven, Minneapolis  
Stephen Arthur Lambourne, Roch-  
ester  
Boyd Wayne Langseth, Duluth  
Daniel Ainsworth Larson, B.S., Min-  
neapolis  
Wayne Joel Larson, B.S., Monticello  
James Bradley Lawson, B.S., Duluth  
Robert David LeVasseur, Duluth  
Kenneth Romeo Lorenz, Langdon,  
N.D.  
Ronald Sherman McCollor, B.S.,  
St. Paul  
Richard Drake Mellin, B.S., St. Paul  
G. William Meyer, B.S., Minneapolis  
Duane Allen Michaelis, Little Falls  
Dan Gifford Middaugh, B.A. magna  
cum laude, Minneapolis  
Robert Peter Miller, Little Falls  
Robert Rodange Miller, B.A., Ex-  
celsior  
Michael Joseph Moga, B.S., St. Paul  
Roy Yukio Nakamoto, B.S., Wailuku,  
Maui, Hawaii  
Mark John Nelson, Morgan  
Ralph Romer Nielson, Buxton, N.D.  
Kenneth John Nordberg, B.A., B.S.,  
Minneapolis  
Lawrence John Oakes, Pembina, N.D.  
Gregory Charles Pappenfus, St. Cloud  
George Frank Perpich, B.A., Hibbing  
Jerry Douglas Peterson, B.S., Minne-  
apolis

Wayne Donald Peterson, B.S., Benson	Gordon Aron Sward, Albert Lea
Richard David Pihlstrom, B.S., Min- neapolis	John Arthur Takala, B.S., St. Paul
Willard Louis Powell, B.S., Vermil- lion, S.D.	Dennis Russell Trampe, Long Prairie
Roger Keith Raduenz, Lucan	Orville Frank Tschida, B.S., Little Falls
Martin Joseph Rathmanner, B.S., New Prague	John David Vogel, B.S., South St. Paul
Murray Ralph Robinovitch, B.S., Brandon, Manitoba, Canada	Donald Anthony Waletzko, Willow River
Freeman Newton Rosenblum, St. Paul	Jerome Lawrence Welna, B.A., B.S., Minneapolis
Albertus Schelhaas, B.S., Edgerton	Thomas Paden Wentworth, B.S.B., St. Paul
Roy Stuart Schwartz, B.S., Sleepy Eye	Marvin Glenn Wick, B.A., Duluth
Harry Reynolds Skinner, B.S., St. Paul	Earl Orvil Williams, Minneapolis
Leonard Carl Smith, B.S., Minne- apolis	Frank William Worms, Jr., Peoria, Ill.
Paul Gerald Smith, B.S., Cambridge	Robert Culver Wright, B.S. Pharm., St. Paul
Lowell Frederick Sorenson, Albert Lea	Wayne William Wunder, Paynesville
John Louis Stewart, B.S., Minneapolis	Joseph Louis Zbacnik, B.S., Hibbing

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science in Nursing\*

Judith Eleanor Peterson, Waseca

Joanne Charlotte Rudrud, Minne-  
apolis

### Bachelor of Science in Nursing Administration

Phyllis Elsie Hinck, Lake City

### Bachelor of Science

David Webster Anderson, B.A., St.  
James, Medicine

Stanley Ronald Balchunas, Mahno-  
men, Medicine

Calvin Marshall Bandt, B.A., Minne-  
apolis, Medicine

Michael Bruce Barnett, B.A., St. Paul,  
Medicine

Bruce Joseph Bart, B.A., Minneapolis,  
Medicine

*Jane Grant Bennett, Minneapolis,*  
*Physical Therapy, WITH HIGH DIS-*  
*TINCTION*

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\* These degrees are conferred subject to the satisfactory completion of nursing practice prior to August 17, 1961.

- Laima Ella Bergmanis, A.A., West Point, Neb., Physical Therapy
- Robert Howard Berland, B.A., Minneapolis, Medicine
- Thomas Glenn Birkey, B.A., Minneapolis, Medicine
- Harriet Annette Block, Minneapolis, Medical Technology\*\*
- Nancy Josephine Brooten, St. Paul, Occupational Therapy
- Robert Elliot Bundt, B.A., Minneapolis, Medicine
- Harriette Pearl Burstein, Minneapolis, Medical Technology, WITH DISTINCTION\*\*
- Charlene Barbara Caldwell, Minneapolis, Occupational Therapy
- Richard Bart Carley, B.A., St. Paul, Medicine
- Clifford Alexander Carlson, B.A., International Falls, Medicine
- Sally Kay Carlson, St. Cloud, Occupational Therapy
- Judith Kay Carpenter, Oshkosh, Wis., Physical Therapy
- Constance Carole Cave, Minneapolis, Medical Technology\*\*
- Lorraine Florence Chapman, Minneapolis, Public Health Nursing
- Nancy Diane Christiansen, St. Louis Park, Medical Technology\*\*
- Patricia Ann Christianson, Blooming Prairie, Physical Therapy
- John Anthony Cich, B.A., St. Paul, Medicine
- Lois Ann Crandall, St. Paul, Occupational Therapy
- Donald Charles Creevy, B.A., Minneapolis, Medicine
- Anne Therese Cronin, Minneapolis, Occupational Therapy, WITH HIGH DISTINCTION
- Robert Joseph Cumming, B.A., Mankato, Medicine
- Paul Bates Dickinson, Granite Falls, Medicine
- Herman Vernon Dilliard, B.A., Couchwood, La., Medicine
- John William Eckholdt, B.A., Minneapolis, Medicine
- Nancy Jo Engeset, B.A., Minneapolis, Medicine
- Shirley Ayleen Erickson, St. Paul, Public Health Nursing
- William Harold Ford, Jr., B.A., Hopkins, Medicine
- Richard Terrell Foreman, B.A., St. Paul, Medicine
- Abe Lewis Fox, Jr., Minnesota Lake, Medicine
- William Henry Fritsche, B.A., New Ulm, Medicine
- Donna Nadine Fruen, Long Lake, Medical Technology\*\*
- Gerald Henry Gammell, B.A., Minneapolis, Medicine
- Joseph Lawrence Gendron, B.A., Little Falls, Medicine
- James Leland Gorder, Minneapolis, Medicine
- Donna Mae Jenon Gustafson, Minneapolis, Medical Technology\*\*
- John Rueben Gustafson, B.A., St. Paul, Medicine
- Ronald David Guttmann, B.A., Minneapolis, Medicine
- Marian Louise Haggemiller, St. Paul, Occupational Therapy
- Karen Halverson, Excelsior, Medical Technology\*\*
- Rhoda Ann Hanson, Winthrop, Medical Technology\*\*
- Catherine May Harrison, Minneapolis, Medical Technology\*\*
- Carolyn Ann Hart, Minneapolis, Medical Technology\*\*
- Noel Winston Haukebo, B.A., Battle Lake, Medicine
- Charles William Hauser, B.A., St. Paul, Medicine
- Thomas Clair Hegstad, Slayton, Medicine

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\*\* These degrees are conferred subject to the completion of practical work prior to December 14, 1961.

- Janet Katharine Hendrickson, Minneapolis, Occupational Therapy, WITH HIGH DISTINCTION
- Barbara Lee Hershe, St. Paul, Occupational Therapy
- Renelda Janette Hess, Minneapolis, Medical Technology, WITH HIGH DISTINCTION\*\*
- Robert David Hilgers, Fairmont, Medicine
- Maryann Elizabeth Hitchcock, Minneapolis, Occupational Therapy
- Richard B. Hoffman, A.L.A., B.A., St. Paul, Medicine
- James Herbert House, Wood Lake, Medicine
- Kate Johnson, Coos Bay, Ore., Physical Therapy
- Lee Judith Johnson, Buffalo, Physical Therapy
- Mary Alice Johnson, Alexandria, Medical Technology, WITH DISTINCTION\*\*
- Susan Beneva Johnson, Bemidji, Medical Technology\*\*
- Donald Royce Jorgensen, B.A., M.A., Minneapolis, Medicine
- Marianna Christine Juhl, Luverne, Medical Technology\*\*
- Sandra Jean Jurkovich, Chisholm, Physical Therapy, WITH DISTINCTION
- Mary Ann Kadow, Manitowoc, Wis., Public Health Nursing, WITH DISTINCTION
- Adrian LeRoy Kapsner, B.A., Princeton, Medicine
- James Leo Kapsner, St. Paul, Physical Therapy
- Harry Irving Katz, B.A., Minneapolis, Medicine
- Linda Lois Kaye, Minneapolis, Occupational Therapy
- Mark Benjamin Kilen, B.A., Minneapolis, Medicine
- William Joel Knipp, B.A., Le Center, Medicine
- Robert John Krogh, B.A., Minneapolis, Medicine
- Ronald Lee La Belle, B.A., Minneapolis, Medicine
- Elithea Jane LaFayette, Minneapolis, Medical Technology\*\*
- Janice LaVina La Grone, Minneapolis, Occupational Therapy
- Lloyd L. Leider, Jr., St. Paul, Medicine
- Elizabeth Ann Lenz, St. Paul, Physical Therapy
- Judith Ann Lind, St. Paul, Occupational Therapy
- Robert Norman Lindholm, B.A., Minneapolis, Medicine
- Malcolm Ingalls Lindsay, Jr., B.A., Minneapolis, Medicine
- Marilyn Carol Linnerson, Carver, Occupational Therapy
- Rodger Roy Lundblad, Minneapolis, Medicine
- Timothy Michael Magee, B.A., Minneapolis, Medicine
- Carol Ann Mastro, Minneapolis, Occupational Therapy, WITH DISTINCTION
- Robert D. Mathison, A.A., Rochester, Medicine
- Carol Elizabeth Matson, Finlayson, Occupational Therapy
- Joseph David McCarthy, St. Paul, Physical Therapy
- Edward Joseph McEllistrem, St. Paul, Medicine
- Julia Ann McGuire, Excelsior, Physical Therapy
- John Bert McMullen, St. Paul, Medicine
- James Kyle Medelman, White Bear Lake, Medicine
- Sonja Spillum Messner, San Francisco, Calif., Physical Therapy, WITH HIGH DISTINCTION
- Kathleen Mary Micka, Hibbing, Physical Therapy, WITH DISTINCTION

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\*\* These degrees are conferred subject to the completion of practical work prior to December 14, 1961.

- Henry George Moeller, Jr., B.A., Vermillion, S.D., Medicine
- Joanne Claire Myhre, Duluth, Medical Technology\*\*
- Karen Jean Nearing, Minneapolis, Physical Therapy
- Clareyse Evelyn Nelson, Detroit Lakes, Medical Technology, WITH DISTINCTION\*\*
- Evan L. Nelson, Jr., B.A., Minneapolis, Medicine
- Leo Kenneth Nelson, B.A., Shafer, Medicine
- Anton Stephan Nesse, Jordan, Medicine
- Sydney Scott Nicholas, Jr., B.A. cum laude, Minneapolis, Medicine
- Doris Kathleen Nichols, Manhattan, Kan., Physical Therapy
- Walter Gerhard Niehaus, Jr., Minneapolis, Medicine
- Sheila Catherine Nilan, Austin, Medical Technology\*\*
- Paul Edward Nordlie, B.A., New London, Medicine
- Paul Emmet O'Brien, B.A., Minneapolis, Medicine
- Karen Norma Olness, B.A., Peterson, Medicine
- Robert Eric Olson, M.S., Fargo, N.D., Medicine
- Gerald Regan Onstad, B.A., Minneapolis, Medicine
- Helen Bernice Papaik, Cloquet, Public Health Nursing
- Franklin Pass, B.A., Minneapolis, Medicine
- John Wilson Pelley, B.A., St. Cloud, Medicine
- Edward Sylvester Peterka, B.A., Aurora, Medicine
- Raymond MacDonald Peterson, Butte, Mont., Medicine
- Laurie Jeanne Reinhart, Duluth, Medical Technology\*\*
- Hugh Aloysius Scanlon, Minneapolis, Medicine
- James Richard Schimschock, B.A., Minneapolis, Medicine
- Cheryl Joanne Schleif, Hanover, Medical Technology, WITH DISTINCTION\*\*
- Robert Lyle Schneider, Oklahoma City, Okla., Medicine
- Barbara Ann Schroeder, Jordan, Public Health Nursing
- Maymie Jean Schulz, Grand Rapids, Occupational Therapy
- John Carlyle Scott, B.A., Minneapolis, Medicine
- Fred Louis Shapiro, B.A., Minneapolis, Medicine
- Barbara Ann Shinnors, Green Bay, Wis., Public Health Nursing
- Robert John Sieling, B.A., Alexandria, Medicine
- Charlotte Elaine Smith, Minneapolis, Occupational Therapy, WITH DISTINCTION
- Peter J. Strand, Bayport, Medicine
- Roger Warren Strand, B.A., Minneapolis, Medicine
- Vizma Margaret Strauman, Minneapolis, Medical Technology\*\*
- Lily Ann Ruth Swanson, McIntosh, Public Health Nursing
- Donna Mae Swor, Duluth, Public Health Nursing
- Judith Ann Taplin, Willernie, Physical Therapy
- Richard Allen Teschner, St. Paul, Physical Therapy
- James Myron Thomson, Jr., Austin, Medicine
- Robert George Trahms, B.A., Janesville, Medicine
- Gretchen Krabbe Tronnes, Duluth, Medical Technology\*\*
- Amy Elizabeth Verrall, St. Paul, Public Health Nursing
- Karen Vernice Weimar, Cumberland, Wis., Physical Therapy, WITH DISTINCTION

---

\*\* These degrees are conferred subject to the completion of practical work prior to December 14, 1961.

Doris Mae Welin, Alvarado, Public Health Nursing  
Neva Mae Wieseke, B.A., Marshall, Medicine  
Gayle Francis Wigren, Minneapolis, Occupational Therapy

Nancy Ann Witstine, St. Louis Park, Medical Technology\*\*  
Robert Lowell Zemke, B.A., Fairmont, Medicine  
Robert Maris Zimmers, Duluth, Medicine

## Master of Hospital Administration

Donald Sigmon Buckley, B.S., Lincoln, N.C.  
Fernando Florez Burgos, B.B.A., Medellin, Colombia, S.A.  
William Cyrus Christenson, B.A., Minneapolis  
Dennis Dean Countryman, B.B.A., Minneapolis  
George Donald Desmarais, B.S., Hermansville, Mich.  
Douglas Rex Ewald, B.A., Minneapolis  
Gary Lewis Filerman, B.A., Minneapolis  
Robert David Winston Holmen, B.S., St. Paul  
Charles William Grierson, Winnipeg, Manitoba, Canada  
Kenneth Coop Johnson, B.S., Ogden, Utah  
Kenneth Michael Kelley, B.B.A., Wayzata  
Sang Chan Kim, B.A., Seoul, Korea  
Thomas Morton LaMotte, B.A., Minneapolis  
John Joseph Leary, B.S., Weymouth, Mass.

Thomas James Markovich, B.S., A.M.S., Ely  
John Edward Mosher, B.B.A., Owatonna  
Paul Edward Mullen, B.S., Perry, Iowa  
Laurel Vothe Nelson, B.A., St. Paul  
Warren Loyd Rutherford, B.B.A., Minneapolis  
Billy Frazier Simmons, B.S., Lovin, Miss.  
Gordon Merrill Sprenger, B.A., Le Sueur  
Leonard Stangl, B.S., Milwaukee, Wis.  
Donald H. Stordahl, B.A., Minneapolis  
John Sweetland, Jr., Edina  
Charles Daniel Swint, A.A., B.S., San Mateo, Calif.  
Sheldon Kendrick Truax, B.B.A., Hastings  
Harry James Wernecke, A.A., B.B.A., Rochester  
Lawrence Edwin Wilke, B.B.A., Minneapolis

## Master of Public Health

Larry Dwight Allen, B.S., Wichita, Kan.  
Joan Wallace Arnold, B.S.N., Minneapolis  
Mary Lou Anderson Bakeman, Minneapolis

Mary Louise Belair, B.S., St. Paul  
Segundo Brana-Blanco, M.D., Republic of Mexico  
Allyn Gustave Bridge, M.D., Minneapolis

---

\*\* These degrees are conferred subject to the completion of practical work prior to December 14, 1961.

Eleanor Brunetto, B.S., M.A., Johnstown, N.Y.  
 Helen Mary Campbell, B.S.N., Red Hook, N.Y.  
 Florence Cavagnero, B.S., Torrington, Conn.  
 Nung Won Choi, M.D., Seoul, Korea  
 Dudley Jefferson Conner, B.A., Albany, Ky.  
 Frances Anne Decker, B.S., Minneapolis  
 James D. De Field, B.S., Denver, Colo.  
 Luis Fernando Roquebert Delgado, D.V.M., David, Panama  
 Rodolfo Buenaventura Escosa, M.D., Philippines  
 Stanley S. Gittelman, B.S., Brooklyn, N.Y.  
 Joseph Earl Herndon, Jr., B.C.E., Fountain Inn, S.C.  
 Ethel Lillian Kallins, B.S., Baltimore, Md.  
 Ahmad Khosrowshahi, M.D., Tabriz, Iran  
 Claude Atlas Ledwell, B.I.E., Turkey, N.C.  
 Jane Ann Lewis, B.S., Decatur, Ga.  
 Ruth Alice Locke, B.S., Rochester, N.Y.  
 Bernard Francis Ludes, B.S., M.D., Valley Stream, N.Y.  
 Raymond Allen Mill, B.A., Minneapolis  
 Jean Eileen Morehead, B.A., Minneapolis  
 Virgil Maurice Muller, B.S., Aplington, Iowa  
 V. K. Karunakaran Nair, B.A., Trivandrum, Kerala, India  
 Barbara Lea Paustian, B.S.N., Bettendorf, Iowa  
 Donald Elmer Pietz, B.S., D.V.M., St. Paul  
 Grace Kathryn Plude, B.S., Des Moines, Iowa  
 Robert William Schwanke, A.A., B.A., St. Paul  
 Richard Errett Smith, D.V.M., Denver, Colo.  
 Beverly Jean Stump, B.A., M.D., Warren, Ohio  
 Ann Timmerman, B.A., Hibbing  
 Kian Hong Tjan, M.D., Tjilatjab, Indonesia  
 Nguyen Cam Van, B.S., Saigon, Vietnam  
 Marian Angeline VanFossen, B.S.N., Iowa City, Iowa  
 Cedomir Vukmanovic, M.D., Beograd, Yugoslavia  
 Robert Lee Watson, D.V.M., West Point, Neb.  
 Henryk Weitzenfeld, C.E., Montevideo, Uruguay  
 Ann Westerhof, B.S., Chandler

## Doctor of Medicine

John Theodore Andersen, B.S., Montevideo  
 David Webster Anderson, B.A., St. James  
 David B. Auran, B.A., B.S., Hopkins  
 Calvin Marshall Bandt, B.A., Minneapolis  
 Michael Bruce Barnett, B.A., St. Paul  
 Bruce Joseph Bart, B.A., Minneapolis  
 Neil Michael Bealka, B.C.E., Minneapolis  
 Allan D. Belden, B.S., Red Wing  
 Robert Howard Berland, B.A., Minneapolis  
 Roland Clement Birkebak, B.S., M.S.M.E., St. Paul  
 Eugene Joseph Birkemeyer, B.A., Willmar  
 Thomas Glenn Birkey, B.A., Minneapolis  
 Martin Gustav Bruhl, B.A., Faribault  
 Robert Elliot Bundt, B.A., Minneapolis

David W. Burgan, B.S., Helena, Mont.  
 Richard Bart Carley, B.A., St. Paul  
 Clifford Alexander Carlson, B.A., International Falls  
 John Anthony Cich, B.A., St. Paul  
 William Christie Conrad, B.A., St. Paul  
 Donald Charles Creevy, B.A., Minneapolis  
 Robert Joseph Cumming, B.A., Mankato  
 Walter Delmar Cunningham, B.A., Sturgeon Lake  
 James Jerome Diehl, D.D.S., B.S., St. Paul  
 Herman Vernon Dilliard, B.A., Couchwood, La.  
 Nancy Jo Engeset, B.A., B.S., Minneapolis  
 Alan Dean Espelien, B.S., St. Paul  
 David Paul Folkestad, B.A., Oakland  
 William Harold Ford, Jr., B.A., Hopkins  
 Richard Terrell Foreman, B.A., Minneapolis  
 John Richard Gaertner, B.S., St. Paul  
 Gerald Henry Gammell, B.A., Minneapolis  
 Joseph Lawrence Gendron, B.A., Little Falls  
 Barry Grundland, B.A., B.S., Minneapolis  
 John Rueben Gustafson, B.A., St. Paul  
 James Cameron Guthrie, B.A., M.Ed., St. Paul Park  
 Ronald David Guttmann, B.A., Minneapolis  
 John William Haas, B.A., Big Timber, Mont.  
 George Gilbert Haberman, B.S., Osakis  
 Edward Michael Hanton, B.S., St. Paul  
 Noel Winston Haukebo, B.A., Battle Lake  
 Charles William Hauser, B.A., St. Paul  
 Terrance P. Henderson, B.S., St. Paul  
 Howard William Higholt, B.S., Duluth  
 Robert David Hilgers, B.S., Fairmont  
 Richard B. Hoffman, A.L.A., B.A., St. Paul  
 Roderick Power Hood, B.S., Duluth  
 Rodney Charles Johnson, B.A., Lake Park  
 Donald Royce Jorgensen, B.S., B.A., M.A., Minneapolis  
 Adrian Leroy Kapsner, B.A., Princeton  
 Harry Irving Katz, B.A., Minneapolis  
 Harvey Kelman, B.A., St. Paul  
 Mark B. Kilen, B.A., Minneapolis  
 William Joel Knipp, B.A., Le Center  
 Robert John Krogh, B.A., Minneapolis  
 James A. Kunz, B.S., South St. Paul  
 Ronald Lee La Belle, B.A., Minneapolis  
 John Bernard Leary, B.A., B.S., St. Paul  
 Malcolm Ingalls Lindsay, Jr., B.A., Minneapolis  
 Arthur Joseph Loerzel, B.A., Perham  
 Rodger Roy Lundblad, B.S., Minneapolis  
 Peter John Lynch, B.S., St. Paul  
 Richard Bruce Lysne, B.A., Minneapolis  
 Timothy Michael Magee, B.A., Minneapolis  
 Edward Joseph McEllistrem, B.S., St. Paul  
 David Wentworth McQuoid, B.S., Luverne  
 Gerald Gene Mindrum, B.A., Minneapolis  
 Henry George Moeller, Jr., B.A., Vermillion, S.D.  
 James Edward Monfore, B.A., B.S., Springfield, S.D.  
 Charles LeRoy Murray, B.S., Dillon, Mont.  
 Leah Terese Myers, B.A., Minneapolis  
 Evan L. Nelson, Jr., B.A., Minneapolis  
 Leo Kenneth Nelson, B.A., Shafer

- Sydney Scott Nicholas, Jr., B.A. cum laude, Minneapolis
- Paul Edward Nordlie, B.A., New London
- Paul E. O'Brien, B.A., Minneapolis
- Thomas George Ochsner, B.A., Wabasha
- Karen Norma Olness, B.A., Peterson
- Robert Eric Olson, B.S., M.S., Fargo, N.D.
- Gerald Regan Onstad, B.A., Minneapolis
- Franklin Pass, B.A., Minneapolis
- Harris L. Pearson, B.A., St. Paul
- John Wilson Pelley, B.A., St. Cloud
- Edward Sylvester Peterka, B.A., Aurora
- Raymond MacDonald Peterson, Butte, Mont.
- Thorild Alan Ross, B.S., Brook Park
- James Erling Runquist, B.S., Austin
- John Joseph Salchert, B.S., Minneapolis
- Wilson Munro Salter, B.A., Virginia
- Terence J. Scallen, B.S., Minneapolis
- Patrick J. Scanlan, B.A., Minneapolis
- George Edward Schaffhausen, B.A., B.S., St. Paul
- James Richard Schimschock, B.A., Minneapolis
- John Carlyle Scott, B.A., Minneapolis
- Fred Louis Shapiro, B.A., Minneapolis
- Robert John Sieling, B.A., Alexandria
- Stanley John Simons, Jr., B.S., Pendleton, Ore.
- William James Siverhus, B.A., B.S., Minneapolis
- Boyd Allen Skille, B.S., Minneapolis
- Ronald Charles Smith, B.A., B.S., Minneapolis
- Edward Vincent Staab, B.S., Minneapolis
- William Moyer Stauffer, Allentown, Pa.
- Roger Warren Strand, B.A., Minneapolis
- Chancy K. Su, B.A., Formosa
- Herbert Stanley Thompson, B.A., Minneapolis
- James Myron Thomson, Jr., B.A., Austin
- DeLane Joseph Thyen, B.S., Minneapolis
- Robert George Trahms, B.A., Janesville
- Robert Egin Wahman, B.S., St. Paul
- Dennis Palmer Welcome, B.A., B.S., Mankato
- Joseph John Westermeyer, B.S., St. Paul
- Neva Mae Wieseke, B.A., Marshall
- Donald Duane Woodke, B.A., Lakefield
- David McQuarrie Worthen, B.S., Salt Lake City, Utah
- Robert Lowell Zemke, B.A., Fairmont

## GRADUATE SCHOOL

### Master of Arts

- Howard Paul Akenson, Minneapolis  
B.B.A. '49, B.S. '51, University of Minnesota.  
Field of Concentration: Curriculum and Instruction.
- Sylvia Swen Bolstad, Cloquet  
B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Joseph James Brabec, St. Paul  
B.A. '50, College of St. Thomas; B.A. '53, MacPhail College. Field of Concentration: Educational Administration.
- David Nye Brown, Minneapolis  
B.A. magna cum laude '54, University of Minnesota. Major: Philosophy. Minor: English. Thesis: Fundamental Problems in Meta-Aesthetic Theory.

Tieh-Ching Chang, China

B.A. '49, National Chengchi University. Field of Concentration: Economics.

Peter Clarke, Kirkland, Wash.

B.A. '59, University of Washington. Field of Concentration: Journalism.

Victor Joseph Contoski, Minneapolis

B.A. *cum laude* '59, University of Minnesota. Field of Concentration: English.

Josephine Helen Cooke, Castro Valley, Calif.

B.A. '59, University of California (Berkeley). Field of Concentration: Art Education.

Leonard Terence Dosh, Collegeville

B.A. '53, St. John's University (Minn.). Field of Concentration: History.

Peter Winthrop Dowell, Benton Harbor, Mich.

B.A. '58, Princeton University. Field of Concentration: English.

Gayle Edward Evans, St. Paul

B.A. '59, University of Minnesota. Major: Anthropology. Minor: History. Thesis: A Re-appraisal of the Blackduck Focus or Headwaters Lakes Aspect.

Rebecca Thomason Evans, Duluth

B.A. '55, University of Minnesota. Field of Concentration: English.

Anne Stewart Fiske, Baltimore, Md.

B.A. with honor '59, Hollins College. Field of Concentration: Psychology.

Mohamed Sabry Ghazy, Tala, Monofiah, Egypt

B.Sc.(Agr.) '40, M.Sc.(Agr.) '53, Cairo University. Field of Concentration: International Relations.

Morris William Gildemeister, Gaylord

B.S. '57, Mankato State College. Field of Concentration: Geography.

Leander Charles Gresser, Osseo

B.S. '50, St. Cloud State College. Field of Concentration: Industrial Education.

Thadd Emerson Hall, St. Paul

B.A. '58, Simpson College. Field of Concentration: History.

Daniel Thomas Hansen, St. Paul

B.A. '50, Macalester College. Field of Concentration: Curriculum and Instruction.

Joan Beverly Hanson, New York Mills

B.A. *cum laude* '53, Hamline University. Field of Concentration: Curriculum and Instruction.

Leslie Myron Hanson, Howard Lake

B.S. '51, University of Minnesota. Field of Concentration: Agricultural Education.

J. David Harris, New Brighton

B.B.A. '56, University of Minnesota. Field of Concentration: Industrial Relations.

Craig Ernest Henrikson, Minneapolis

B.A. '56, University of Minnesota. Major: Anthropology. Minor: Sociology. Thesis: A Study of the Application of Sound Recording Techniques to the Field of Anthropology.

Elina Holst, Bethesda, Md.

B.A. '57, University of Kansas. Field of Concentration: Area Studies: Northwest Europe (Scandinavia).

Frederick Leo Hoyt, Jr., Grand Rapids, Mich.

B.A. '49, Princeton University. Field of Concentration: English.

Ellen Beutler Hughes, Minneapolis

B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Olga Therese Gjervik Ilstrup, Minneapolis

B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Leonids A. Jirgensons, Minneapolis

B.A. (Equivalent) '48, University of Hamburg. Major: Latin. Minor: German. Thesis: Pluralis Actoris in the *Rhetores Latini Minores*.

Robert Norman Johnson, Minneapolis

B.S. '54, University of Minnesota. Field of Concentration: Physical Education.

Ralph Arthur Kallman, Minneapolis

B.A. *cum laude* '56, University of Minnesota. Field of Concentration: Mathematics.

Ruby N. Kamatos, Duluth

B.A. *cum laude* '57, B.S. '59, University of Minnesota. Field of Concentration: Education.

Uldis Kampe, Minneapolis

B.S. '58, University of Minnesota. Field of Concentration: Statistics.

Louis John Karakas, Ely

B.S. *cum laude* '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.

David James Kreager, Richfield

B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Dale Mueller Krumviede, Baudette

B.A. *summa cum laude* '59, University of Minnesota. Field of Concentration: History.

Gary Glen Kuhn, South St. Paul

B.A. *magna cum laude* '59, University of Minnesota. Major: Area Studies: Latin America. Thesis: Civil Aviation in Latin America—A General Survey.

Roger Allan Larson, Minneapolis

B.B.A. '54, B.S. '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Lois Mae Lee, Superior, Wis.

B.A. with honors '52, Wisconsin State College (Superior). Field of Concentration: Curriculum and Instruction.

Richard A. Leiviska, Bloomington

B.S. '51, Northern Michigan College of Education. Field of Concentration: Industrial Education.

Goang-Tzer Liaw, Taipei, Formosa

B.A. in Econ. '56, National Taiwan University. Field of Concentration: Economics.

Richard George Lidberg, Duluth

B.S. '55, Wisconsin State College (Superior). Field of Concentration: Curriculum and Instruction.

William Ivar Lindquist, Hinckley

B.A. '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Ai-yu Lin Liu, Taipei, Formosa, China

B.A. '55, University of Taiwan. Field of Concentration: International Relations.

Randall Winn McCune, Luverne

B.S. '57, Mankato State College. Field of Concentration: Educational Psychology.

Polymnia Metaxa, Athens, Greece

B.A. '59, University of Athens. Field of Concentration: Greek.

John Mulkern Miller, St. Paul

B.A. '50, St. John's University (Minn.); B.S. '51, Winona State College. Field of Concentration: Curriculum and Instruction.

Virginia Pauline Miller, Minneapolis

B.A. *magna cum laude* '56, Bethany College. Major: Library Science. Minor: History. Thesis: A History of the Library at Gustavus Adolphus College, St. Peter, Minnesota.

Elliott Nathan Mirman, Minneapolis

Graduate '58, Yeshiva University. Major: German. Minors: Education and Russian. Thesis: Heinrich Von Kleist; *Michael Kohlhaas* and Werner Bergengruen; *Das Feuerzeichen*—A Comparative Study.

Alexander Govind Nadesan, Indonesia

B.A. '58, Gustavus Adolphus College. Major: Political Science. Minor: History. Thesis: The West New Guinea Dispute (Soal Irian Barat).

Esther Bernadine Nordlie, Little Falls

B.A. *magna cum laude* '58, University of Minnesota. Major: Zoology. Minor: Biostatistics. Thesis: Follow-up on Adoption Counseling for Children of Possible Racial Admixture.

John Bernard Norton, Minneapolis

B.A. '50, St. John's University (Minn.). Field of Concentration: Curriculum and Instruction.

Leroy Devoe Nyhus, St. Paul

B.A. *summa cum laude* '52, Augsburg College. Field of Concentration: Educational Psychology.

Joseph Lloyd Partington, Mound

B.S. in Mu.E. '58, College of St. Thomas. Field of Concentration: Music Education.

Vandilla Sarah Price, Lexington, Ky.

B.A. '29, Berea College. Field of Concentration: Home Economics Education.

Elizabeth Martin Reed, Minneapolis

B.S. with distinction '26, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Orville Thomas Rittgers, Hibbing

B.A. '53, Hamline University. Field of Concentration: Curriculum and Instruction.

Robert George Roper, Duluth

B.S. '51, University of Minnesota. Field of Concentration: Education.

Leslie McAdam Roth, St. Paul

B.A. *cum laude* '50, Macalester College. Field of Concentration: American Studies.

William Gene Rothstein, Waterbury, Conn.

B.S. '59, Massachusetts Institute of Technology. Field of Concentration: Industrial Relations.

Charles Atney Roub, St. Paul

B.S. with honor '51, Mankato State College. Field of Concentration: Educational Administration.

Gunta Rozentals, Latvia

B.A. *cum laude* '56, University of Minnesota. Field of Concentration: Spanish.

Wayne Alan Rudolph, New Richland

B.S. with honor '55, Mankato State College. Field of Concentration: Educational Administration.

Harvey Bertram Safeer, Brooklyn, N.Y.

B.B.A. '58, City College of New York. Major: Economics. Minor: History. Thesis: Labor's Share in the Functional Distribution of Private National Income, 1929-1958.

Maile-Gene L. Sagen, Honolulu, Hawaii

B.A. '58, Colorado State College of Education. Field of Concentration: Educational Psychology.

Ampawan Sanasen, Bangkok, Thailand

B.E. '56, Chulalongkorn University. Field of Concentration: Educational Psychology.

Carolyn Ann Sands, Ames, Iowa

B.S. '59, Iowa State College. Field of Concentration: Home Economics.

Karl Albert Schleunes, Kiel, Wis.

B.A. *summa cum laude* '59, Lakeland College. Major: History. Minor: Political Science. Thesis: The Contribution of Joseph Goebbels and the Ministry of Public Enlightenment and Propaganda to the Nazi War Effort, 1939-1945.

Radonna M. Jones Schwarz, Mankato

B.S. with high distinction '52, University of Minnesota. Field of Concentration: Library Science.

Arthur Selikoff, New York, N.Y.

B.A. '53, City College of New York. Field of Concentration: Journalism.

Sister Miriam Joseph Cummings, St. Paul

B.S. '49, College of St. Catherine. Field of Concentration: Child Development and Welfare.

Karlton Dahl Skindrud, Sparta, Wis.

B.A. *summa cum laude* '59, Luther College. Field of Concentration: Psychology.

Marcelyn Joanne Smid, George, Iowa

B.A. '57, Westmar College. Field of Concentration: Library Science.

Evelyn Rose Stern, San Francisco, Calif.

B.A. *cum laude* '59, Pomona College. Major: Child Development and Welfare. Minor: Psychology. Thesis: The Effect of Backward Association on Transfer in Paired-Associate Learning.

Johannes Tall, St. Paul

B.A. (Equivalent) '53, New South Wales State Conservatory of Music. Major: Music. Minor: Education. Thesis: Symphony in Three Movements.

Jean Ann Titzell, Lincoln, Neb.

B.A. '59, University of Nebraska. Field of Concentration: Psychology.

Katherine Elizabeth Walter, Grand Rapids

B.S. with distinction '40, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Jean Worrall Ward, Minneapolis

B.A. *cum laude* '52, University of Minnesota. Field of Concentration: Journalism.

Gerald Thomas Westbrook, Saskatoon, Saskatchewan, Canada

B.Sc. in Ch.E. with great distinction '55, University of Saskatchewan. Major: Economics. Minor: Mathematics. Thesis: The Occurrence, Classification, and Optimization of Allocation Decisions in the Chemical Industry.

Lloyd Russell Wheeler, Wausau, Wis.  
B.S. in C. '50, State University of Iowa. Field of Concentration: Curriculum and Instruction.

Tiang Sioe Yap, Medan, Sumatra,  
Indonesia

B.A. '57, Nommensen University. Major: Economics. Minor: Political Science. Thesis: The Problems of Chinese Minorities in Indonesia.

Gerald Alexander Ylinen, Duluth

B.S. *cum laude* '56, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Mary Louise Young, Duluth

B.S. with distinction '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.

William Dean Young, Carrollton,  
Mo.

B.S. in B.A. '57, University of Missouri. Major: Industrial Relations. Minor: Business Administration. Thesis: A Plan for the Conduct of a Work Measurement Study in the Wage and Classification Division of the Canal Zone Government-Panama Canal Company.

## Master of Arts in Public Administration

James Edward Minnoch, St. Paul

B.A. '56, Wittenburg College; M.S. '57, University of Illinois. Major: Public Administration. Thesis: The Administrative Responsibility for Developing City Planning Programs in Small Minnesota Municipalities.

Jasti RadhaKrishna Murti, India

B.Sc. '56, Andhra University; M.A. '59, Nagpur University. Major: Public Administration. Thesis: The Metropolitan Transit Authority of Boston: A Study of Its Development and Administration.

## Master of Science

Félicie Doris Affolter, Switzerland

Graduate '54, University of Geneva. Field of Concentration: Speech Pathology.

Carl Peter Allen, Minneapolis

B.B.A. with distinction '59, University of Minnesota. Field of Concentration: Business Administration.

Samuel Floyd Barger, Petrolia, Pa.

B.S. '58, Clarion State Teachers College. Field of Concentration: Mathematics.

John Marc Belec, Rouyn, Quebec,  
Canada

B.A. '56, University of Ottawa. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Some Changes in Casein Produced by Heat.

Eugene Felix Bernstein, Minneapolis

M.D. '54, State University of New York. Major: Physiology. Minor: Physiological Chemistry. Thesis: Some Measurements and Estimates of Cardiac Output.

Rajinder Pal Singh Bhalla, Ferozepore,  
India

B.V.Sc. '52, Punjab University. Field of Concentration: Veterinary Medicine.

Arnold William Blomquist, St. Paul

B.S. with honors '58, Michigan State University. Major: Horticulture. Minor: Plant Genetics. Thesis: A Comparison of First Clonal Generation Potato Progeny Performance at Two Minnesota Locations.

Myron Miner Carpenter, Minneapolis

B.S. (Agr.) '47, University of Wisconsin. Major: Poultry Husbandry. Minor: Agricultural Biochemistry. Thesis: Factors Affecting the Nutritional Value of Wheat Middlings for Poultry.

Chang-Lih Chen Chu, Taipei, Taiwan, China

B.A. '55, East Texas Baptist College. Field of Concentration: Biostatistics.

William Darien Duncan, Sioux Falls,  
S.D.

B.S. '35 University of Minnesota. Major: Botany. Minor: Zoology. Thesis: The Flora of the Sand (Cactus) Hills of Minnehaha County, South Dakota.

Phyllis Joan Farber, Whitestone,  
N.Y.

B.S. '58, Queens College (N.Y.). Major: Bacteriology. Minor: Zoology. Thesis: Studies on *Candida*: Comparison of a Nystatin Sensitive and Nystatin Resistant Strain.

Richard Warren Fields, Benton, Ill.

B.S. (Agric.) '56, University of Illinois. Major: Plant Pathology. Minor: Entomology. Thesis: Studies on the Deterioration of Stored Pea Seed by *Aspengillus* Species.

Merle Norman Follstad, Elmgrove,  
Wis.

B.S. '55, University of Wisconsin. Major: Plant Pathology. Minor: Botany. Thesis: The Microflora of Barley in the Field, During Malting, and in Storage.

William Albert Garthe, Hanover,  
N.J.

B.S. '58, Rutgers University. Major: Entomology. Minor: Botany. Thesis: Some Factors Affecting the Fecundity of the Sweetclover Weevil, *Sitona cylindricollis* Fahr.

David Lawrence Gerwitz, Buffalo,  
N.Y.

B.S. *cum laude* '58, Michigan State University. Major: Plant Pathology. Minor: Agricultural Biochemistry. Thesis: Some Metabolic Changes in Wheat Due to Stem Rust Infection at Different Temperatures.

Roger Gordon Hanson, New Rich-  
mond, Wis.

B.S. '57, Wisconsin State College (River Falls). Major: Soils. Minor: Agronomy. Thesis: Soil and Plant Studies on Some Effects of a Decade of Alfalfa Fertilization on Port Byron Silt Loam.

Alan Edgar Hedin, St. Paul

B.S. with high distinction '58, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: An Analytic Study of the Earth's Electric Field and Its Relation to Meteorological Variables.

Hugo Herman John, St. Paul

B.S. with distinction '59, University of Minnesota. Field of Concentration: Forestry.

Allen Dale Johnson, Harmony

B.S. '56, Winona State College. Major: Zoology. Minor: Entomology. Thesis: A Biological Study of *Strongyloides stercoralis* in the Raccoon.

Freeman Keith Johnson, Richfield,  
Utah

B.A. '56, Brigham Young University. Major: Plant Genetics. Minor: Botany. Thesis: An Evaluation of Early Generation Selection by the Use of Genetic Variance Components Obtained from  $F_1$ ,  $F_2$ , and  $F_3$  Lines of Barley, *Hordeum vulgare*, Grown in a Single Year.

Ahmad Kamali-nafar, Tehran, Iran

B.A. '41, Tehran University. Field of Con-  
centration: Agricultural Economics.

Richard Hale Lyon, St. Paul

B.A. '47, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochem-  
istry. Thesis: A Comparative Study of Two Methods for Concentrating Tubercle Bacilli from Sputum.

Andrew Jerome Masley, Minneapolis

B.Phys. with distinction '59, University of Minnesota. Major: Physics. Minor: Business Administration. Thesis: Analysis of Balloon Observations During the April 1960 Solar Cosmic Ray Events.

Thomas Clifford May, Minneapolis

B.Phys. with distinction '59, University of Minnesota. Major: Physics. Minor: Mathe-  
matics. Thesis: A Study of Auroral X-Rays at Minneapolis Between 23 August 1959 and 1 August 1960.

William Merrill, Jr., Pike, N.H.

B.S. in For. *magna cum laude* '58, University of New Hampshire. Major: Plant Pathology. Minor: Forestry. Thesis: Investigations on the Evaluation of Preservative Treatment of Rigid Insulating Materials.

Robert Harold Miller, Fremont, Wis.

B.S. '58, Wisconsin State College (River Falls). Major: Soils. Minor: Bacteriology. Thesis: The Availability of Some Forms of Soil Nitrogen to Microorganisms Decomposing Cellulose.

Byron Keith Olson, Minneapolis

B.S. with distinction '56, University of Minne-  
sota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Stress Redistribution in Notched Specimens Under Cyclic Stress.

Stanley Roger Pankratz, Mountain  
Lake

B.A. with distinction '59, Bethel College (Kan.). Field of Concentration: Agricultural Economics.

Lawrence Lee Pinsonneault, Wabasha  
B.S. *magna cum laude* '56, College of St. Thomas. Major: Physics. Minor: Mathematics. Thesis: The Elastic Scattering of Lithium-7 by Lithium-7.

Roderick H. Rude, Duluth

B.S. '56, University of Minnesota. Field of Concentration: Business Administration.

Peter Alexander Salmon, Seattle, Wash.

B.S. '53, M.D. '55, University of Washington. Major: Physiology. Minor: Physiological Chemistry. Thesis: The Effect of Changing Carbon Dioxide Content on the Optical Density of Whole Blood.

Duane Malmer Swenson, St. Paul

B.A. *cum laude* '59, St. Olaf College. Field of Concentration: Business Administration.

James Frederick Walker, Jr., Robbinsdale

B.Phys. with high distinction '59, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A High Energy Extension of Neutron-Proton Scattering Using a Delta-Function Interaction Potential.

Ting-shu Wu, Chekiang, China

B.Sc. '55, National Taiwan University. Major: Mechanics and Materials. Minor: Mathematics. Thesis: A Theory for the Effect of Plastic Deformation on Elastic Behavior of a Model Solid.

Caridad Lim Yao, Manila, Philippines

B.S. in Chem. '58, Adamson University. Field of Concentration: Analytical Chemistry.

## Master of Science in Aeronautical Engineering

James Joseph Baltus, North St. Paul

B.S. with high distinction '58, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Launch Conditions for Precision Ballistic Spaceflight Trajectories.

Lester Dean Edinger, St. Paul

B.S. '59, University of Minnesota. Field of Concentration: Aeronautical Engineering.

James Matthew Urnes, Minneapolis

B.S. with distinction '59, University of Minnesota. Field of Concentration: Aeronautical Engineering.

David Duane Werts, Knoxville, Iowa

B.S. '57, Iowa State College. Field of Concentration: Aeronautical Engineering.

## Master of Science in Chemical Engineering

Christopher Bruce Duckham, Reading, England

B.Sc. with honours '58, University of Birmingham. Major: Chemical Engineering. Minor: Mathematics. Thesis: On the Existence of Rectilinear Flow of Non-Newtonian Fluids in Pipes of Non-Circular Cross-Section.

Walter Gregson Vaux, Seattle, Wash.

B.S. '59, University of Washington. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Fluid Flow in the Open-Surfaced Porous Bed.

## Master of Science in Civil Engineering

Adel Akhundzadeh, Tehran, Iran

M.Sc. '51, Tehran University. Field of Concentration: Civil Engineering.

Arne Norris Breivik, Minneapolis

B.S. '59, University of Minnesota. Field of Concentration: Civil Engineering.

Elmer James Kopp, Plummer

B.S. with distinction '59, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Effects of Moisture on Structural Characteristics of Gypsum Concrete.

Shean-lun Liu, Taipei, Formosa,  
China

B.S. '56, National Taiwan University; M.S.  
Ch.E. '57, West Virginia University. Field of  
Concentration: Civil Engineering.

Harilal M. Maniar, Ahmednagar, India  
B.E.(Civil) '57, Gujarat University. Field of  
Concentration: Civil Engineering.

Tarunchandra Shivalal Shah, Bhavnagar,  
Gujrat, India

B.E.(Civil) '58, College of Engineering. Field  
of Concentration: Civil Engineering.

## Master of Science in Dentistry

Robert John Isaacson, Minneapolis

B.S. '54, D.D.S. '56, University of Minnesota.  
Major: Dentistry. Minor: Anatomy. Thesis:  
Experimental Induction of Cleft Palate with  
Cortisone in Inbred Mice.

John Broman Pike, St. Cloud

B.S. '58, D.D.S. '59, University of Minnesota.  
Major: Dentistry. Minor: Anatomy. Thesis:  
A Serial Investigation of Facial and Statural  
Growth in Seven to Twelve Year Old Chil-  
dren.

Norman Ashlock Korn, Minneapolis

B.A. '52, D.D.S. '56, University of Minnesota.  
Major: Dentistry. Minor: Bacteriology. Thesis:  
A Comparison of Transient Bacteremias Fol-  
lowing Routine Root Planing and Gingivect-  
omy and a Collateral Study of Bacterial Inva-  
sion of the Periodontal Tissues.

Eastwood Gibbs Turlington,  
Rochester

D.D.S. '54, University of Maryland. Major:  
Dentistry. Minor: Pathology. Thesis: Implant  
Electrodes in the Gasserian Ganglion: Modifi-  
cation of a Procedure for Comparing Local  
Anesthetics.

## Master of Science in Dermatology

Manuel Oscar Jaffe, Hopkins

B.S. '50, University of Richmond; M.D. '54,  
Medical College of Virginia. Major: Derma-  
tology. Minor: Pathology. Thesis: Porphyria  
Cutanea Tarda: A Clinical Review of 81 Cases  
with Observations on Physiological Abnor-  
malities.

Benjamin Talbot Wells, Lubbock,  
Tex.

B.S. '48, M.A. '49, M.D. '53, Baylor Univer-  
sity. Major: Dermatology. Minor: Pathology.  
Thesis: Acrodermatitis Enteropathica.

## Master of Science in Electrical Engineering

Raymond James Kirk, St. Paul

B.Phys. with distinction '59, University of  
Minnesota. Major: Electrical Engineering.  
Minor: Mathematics. Thesis: Effects of Ti-  
tanium Anodes on the Oxide-Coated Cathode.

Charles Vernon Lundeen, Hopkins

B.S. with distinction '59, University of Min-  
nesota. Major: Electrical Engineering. Minor:  
Mathematics. Thesis: Determination of Elec-  
trical Resistance for Volumetric Systems.

Robert Ray Krongard, Minneapolis

B.S. '59, University of Minnesota. Major:  
Electrical Engineering. Minor: Mathematics.  
Thesis: A Microwave Technique for Measur-  
ing the Permittivity and Conductivity of Small  
Semiconductor Spheres.

## Master of Science in Mechanical Engineering

Charles Ernest Bullock, Lengby

B.S. with high distinction '59, University of Minnesota. Field of Concentration: Mechanical Engineering.

Dah-Yu Cheng, Taipei, Taiwan,  
China

B.Sc. '57, Taiwan Provincial Cheng Kung University. Field of Concentration: Mechanical Engineering.

Clifford John Cremers, St. Paul

B.S. with distinction '57, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Experimental Investigation of the Characteristics of Turbulence in a Triangular Duct.

Russell Carlton Hendrick, Minneapolis

B.S.M.E. with high honors '51, South Dakota School of Mines and Technology. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Automatic Gain Control of a Feedback Control System by Limit-Cycle Amplitude Regulation.

Hubert Norman Jantscher, Richfield

B.S. '53, Illinois Institute of Technology. Field of Concentration: Mechanical Engineering.

Robert William Jorgensen, Hutchinson

B.S. with distinction '59, University of Minnesota. Field of Concentration: Mechanical Engineering.

John Welch Lester, Binghamton,  
N.Y.

B.M.E. '52, Clarkson College of Technology. Field of Concentration: Mechanical Engineering.

Leo George Mielke, Minneapolis

B.S. with distinction '59, University of Minnesota. Field of Concentration: Mechanical Engineering.

## Master of Science in Medicine

Benno Marcellus Brink, Los Angeles,  
Calif.

M.D. '56, Creighton University. Major: Medicine. Minor: Physiology. Thesis: The Pressure Profile of the Gastroduodenal Junctional Zone in Dogs.

## Master of Science in Neurology

Michael Masaru Okiihiro, Kaneohe,  
Oahu, Hawaii

B.S. '49, University of Hawaii; M.D. '55, University of Michigan. Major: Neurology. Minor: Basic Neurological Sciences. Thesis: Some Characteristics of the Block of Neuromuscular Transmission Produced by Various Drugs in the Rabbit and Cat.

## Master of Science in Neurosurgery

Craig Wilbur Norstrom, Edmonton,  
Alberta, Canada

M.D. '55, University of Alberta. Major: Neurosurgery. Minor: Neuropathology. Thesis: Primary Tumors of the Filum Terminale and Conus Medullaris—A Clinical Pathologic Study.

Morris Henry Rivers, Edmonton,  
Alberta, Canada

M.D. '57, University of Alberta. Major: Neurosurgery. Minor: Basic Neurological Sciences. Thesis: Intercranial Arterial Aneurysms.

## Master of Science in Plastic Surgery

Robert Hubert Balme, Sherrill, N.Y.

B.A. '48, University of Rochester; M.D. '52, New York Medical College. Major: Plastic Surgery. Minor: Pathology. Thesis: The Use of Immunized Lymph in the Treatment of Mouse Cancer.

Harvey Lash, Columbus, Ohio

D.D.S. '51, M.D. '55, The Ohio State University. Major: Plastic Surgery. Minor: Pathology. Thesis: Squamous Cell Carcinomas of the Tongue.

## Master of Science in Radiology

Reed Porter Rice, Rochester

B.A. '51, DePauw University; M.D. '55, Indiana University. Major: Radiology. Minor: Pathology. Thesis: The Roentgenographic Manifestations of Chemodectomas of the Glomus Jugulare.

John Hough Smith, Grand Rapids,  
Mich.

B.A. '52, M.D. '55, University of Michigan. Major: Radiology. Minor: Pathology. Thesis: Roentgenographic Aspects of Articular Pigmented Villonodular Synovitis.

## Master of Science in Surgery

Gerhard Friesen, Winkler, Manitoba,  
Canada

M.D. '50, University of Manitoba. Major: Surgery. Minor: Pathology. Thesis: Superficial Carcinoma of the Stomach.

Donald Wright Selzer, Topcka, Kan.

M.D. '47, University of Kansas. Major: Surgery. Minor: Pathology. Thesis: A Pathologic Study of So-Called Papillomas Occurring in Non-Calculous Gallbladders.

Paul Gabriel Gannon, Rochester

B.A. '50, College of the Holy Cross; M.D. '54, Marquette University. Major: Surgery. Minor: Pathology. Thesis: Polypoid Glandular Tumors of the Small Bowel.

Jean Bernard Taillefer, Ottawa,  
Ontario, Canada

B.A. '48, M.D. '53, University of Ottawa. Major: Surgery. Minor: Pathology. Thesis: Adenomyoma of the Gallbladder.

James Caldwell Rex, Slatington, Pa.

M.D. '50, Temple University. Major: Surgery. Minor: Pathology. Thesis: Study of Gastric Secretion and Excretion of Urinary Histamine in Dogs with Portacaval Transpositions.

René Veuve dit Joyeuse, France

M.D. '54, University of Paris (Faculty of Medicine). Major: Surgery. Minor: Pathology. Thesis: The Efficacy of Intraductal Infusions of Mixed Bile and Pancreatic Juice in Producing Pancreatitis in the Dog.

## Master of Science in Urology

Hugh Payson Robinson, Portland,  
Me.

B.A. '49, Bowdoin College; M.D. '53, University of Rochester. Major: Urology. Minor: Pathology. Thesis: Postoperative Contracture of the Vesical Neck: A Clinical and Experimental Study.

## Master of Social Work

Barton Conrad Bauer, Montgomery

B.A. '58, University of Minnesota. Field of Concentration: Social Work.

Gladys Evangeline Broburg, Minneapolis

B.A. cum laude '57, University of Minnesota. Field of Concentration: Social Work.

Patricia Darlene Eldridge, Shafer

B.A. magna cum laude '59, Augsburg College. Field of Concentration: Social Work.

Nicholas Edward Even, Excelsior

B.B.A. '59, University of Minnesota. Field of Concentration: Social Work.

Merlin Ralph Garner, Elk River

B.A. '59, University of Minnesota. Field of Concentration: Social Work.

Nora Clarke Giesey, Minneapolis

B.A. '48, University of British Columbia. Field of Concentration: Social Work.

Susanne Gotlieb, St. Paul

B.A. '59, University of Minnesota. Field of Concentration: Social Work.

Barbara Rodeberg Hammargren, Minneapolis

B.A. '59, University of Minnesota. Field of Concentration: Social Work.

William Arthur Hardesty, St. Paul

B.A. '58, Hamline University. Field of Concentration: Social Work.

William Scott Henderson, Minneapolis

B.A. '59, University of Minnesota. Field of Concentration: Social Work.

Ronald Keith Jacobson, Minneapolis

B.A. '59, Augsburg College. Field of Concentration: Social Work.

Paul M. Kent, Duluth

B.A. cum laude '59, University of Minnesota. Field of Concentration: Social Work.

Allan James Kohls, Minneapolis

B.A. '55, Augsburg College. Field of Concentration: Social Work.

Margaret Anne Lamb, Marquette,  
Mich.

B.A. '57, University of Michigan. Field of Concentration: Social Work.

Nadean Elizabeth Larson, Hector

B.A. '58, Augustana College (Ill.). Field of Concentration: Social Work.

Louise Chesley Miller, Minneapolis

B.A. cum laude '46, M.A. '50, University of Minnesota. Field of Concentration: Social Work.

John George Quesnell, Thief River  
Falls

B.A. '59, St. John's University (Minn.). Field of Concentration: Social Work.

Paul Oliver Rekestad, Winona

B.A. '58, Northland College. Field of Concentration: Social Work.

Joan Siegel Rubenstein, Minneapolis

B.A. '56, University of Minnesota. Field of Concentration: Social Work.

David Lorne Schellenberg, Transcona,  
Manitoba, Canada

B.A. '59, University of Manitoba. Field of Concentration: Social Work.

Hoo Nio Tan, Bogor, Indonesia

M.Law '58, University of Indonesia. Field of Concentration: Social Work.

Frank Owen Turnlund, Minneapolis

B.A. '56, University of Minnesota. Field of Concentration: Social Work.

Wayne Ellis Wagstrom, Moorhead

B.A. *cum laude* '48, Concordia College (Moorhead). Field of Concentration: Social Work.

## Certificate of Specialist in Education

Alice Ann Tuseth, Beltrami

B.S. '51, M.A. '60, University of Minnesota.  
Field: School Psychological Services.

## Doctor of Philosophy

Martin Erwin Abel, Lake Huntington, N.Y.

B.S. '56, Cornell University. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Programs for Expanding the Demand for Farm Food Products in the United States. Major Advisers: Profs. S. O. Berg and W. W. Cochrane.

Thomas Owen Andrus, Berkley, Mich.

B.A. '40, M.A. '45, Louisiana State University. Major: Speech and Theater Arts. Minor: Sociology. Thesis: A History of the Legitimate Theater in St. Paul, Minnesota from 1918 to 1939. Major Adviser: Prof. F. M. Whiting.

Sheldon Lee Appleton, Rochester, Mich.

B.A. *cum laude* '54, M.A. '56, New York University. Major: Political Science. Minor: Area Studies: East and South Asia. Thesis: The Question of Representation of China in the United Nations. Major Adviser: Prof. Werner Levi.

Laurence Holland Baker, Johnston, Iowa

B.S. '54, Iowa State College. Major: Animal Husbandry. Minor: Statistics. Thesis: Linkage and Heterozygosity in Finite Populations. Major Adviser: Prof. R. E. Comstock.

John Clark Barber, Macon, Ga.

B.S. with honors '50, M.S. '51, North Carolina State College. Major: Forestry. Minors: Botany and Plant Genetics. Thesis: An Evaluation of the Slash Pine Progeny Tests of the Ida Cason Callaway Foundation (*Pinus elliottii* Engelm.). Major Adviser: Prof. S. S. Pauley.

Thomas Arthur Browne, Charleston, Ill.

B.A. '52, M.A. '57, University of Minnesota. Major: English. Minor: Latin. Thesis: Thomas Nashe and the Traditions of Plain-Speaking. Major Adviser: Prof. Huntington Brown.

Sze-Foo Chien, Chekiang, China

B.S. in Engr. '53, National Taiwan University; M.S. in M.E. '56, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Experimental Investigation of the Liquid Film Structure and Pressure Drop of Vertical, Downward, Annular, Two-Phase Flow. Major Adviser: Prof. W. E. Ibele.

Richard John Cody, London, England

B.A. '52, University of London; M.A. '58, University of Minnesota. Major: English. Minor: French. Thesis: The Pastoral Element in Shakespeare's Early Comedies. Major Adviser: Prof. Huntington Brown.

Robert William Dickerman, Ithaca, N.Y.

B.S. '51, Cornell University; M.S. '54, University of Arizona. Major: Zoology. Minors: Botany and Geology. Thesis: The Song Sparrows of the Mexican Plateau. Major Adviser: Prof. D. W. Warner.

William Morris Dickson, Pullman,  
Wash.

D.V.M. '49, Colorado State College of Agriculture and Mechanic Arts; M.S. in V.M. '53, The State College of Washington. Major: Veterinary Physiology and Pharmacology. Minor: Physiological Chemistry. Thesis: Studies Concerning Adrenal Cortical Function in Pregnant and Fasted-Pregnant Sheep. Major Advisers: Profs. P. B. Hammond and A. F. Sellers.

Robert Hugh Dunlop, London, England

D.V.M. '56, University of Toronto. Major: Veterinary Physiology and Pharmacology. Minor: Agricultural Biochemistry. Thesis: A Study of Factors Related to the Functional Impairment Resulting from Loading the Rumen of Cattle with High Carbohydrate Feeds. Major Adviser: Prof. P. B. Hammond.

Polly Catherine Bartholomew Feigl,  
Minneapolis

B.A. with general honors, B.S. '56, University of Chicago; M.A. '57, University of Minnesota. Major: Biostatistics. Minor: Mathematics. Thesis: Design Considerations for the Post-operative Evaluation of Analgesic Drugs. Major Adviser: Prof. J. E. Bearman.

Robert Dana Foulke, Wayzata

B.A. with high honors '52, Princeton University; M.A. '57, University of Minnesota. Major: English. Minor: Philosophy. Thesis: Conrad's Sea World: The Voyage Fiction and the British Merchant Service, 1875-1895. Major Adviser: Prof. W. V. O'Connor.

Mary Virginia Fredricks, Jamestown,  
N.D.

B.S. '41, North Dakota Agricultural College. M.A. '55, University of Minnesota. Major: Speech and Theater Arts. Minor: English. Thesis: An Approach to the Teaching of Oral Interpretation in Terms of Dramatic Action. Major Adviser: Prof. D. W. Thompson.

Glenn Wesley Froning, Gray Summit,  
Mo.

B.S. in Agr. '53, M.S. '57, University of Missouri. Major: Poultry Husbandry. Minor: Agricultural Biochemistry. Thesis: Some Physical and Chemical Changes Occurring in Oiled and Unoiled Eggs During Short Storage Periods. Major Adviser: Prof. M. H. Swanson.

Jamal Abdul-Karim Fuad, Sulaimani,  
Iraq

B.Sc. in Agronomy '52, North Carolina State College of Agriculture and Engineering; M.S. '53, University of Maryland. Major: Plant Genetics. Minor: Agricultural Botany. Thesis: Inheritance of Stem Rust Reaction to Races 15 B, 11, and 56, in Crosses of Some Vulgare Wheats. Major Adviser: Prof. E. R. Ausemus.

William Earl Gardner, Hopkins

B.S. with distinction '50, M.A. '59, University of Minnesota. Major: Education. Minor: History. Thesis: The Relationship Between Time Sense, Evaluating Information, and Achievement in American History. Major Advisers: Profs. Edith West and R. J. Keller.

Rita Kaplan Gollin, Rochester, N.Y.

B.A. magna cum laude '49, Queens College (N.Y.); M.A. '50, University of Minnesota. Major: English. Minor: Art. Thesis: Dream and Reverie in the Writings of Nathaniel Hawthorne. Major Adviser: Prof. C. H. Foster.

Robert William Goth, Phillips, Wis.

B.S. '54, Wisconsin State College (Superior); M.S. '57, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Studies on the Effects of Viruses on *Tritolium* Spp. Major Adviser: Prof. J. J. Christensen.

Thomas Frank Hady, Minneapolis

B.A. magna cum laude '55, University of Minnesota. Major: Economics. Minor: Agricultural Economics. Thesis: An Analysis of the Distribution of the Minnesota Personal Property Tax. Major Adviser: Prof. O. H. Brownlee.

William Thomas Hall, Cheyenne,  
Wyo.

B.A. '51, M.S.W. '53, University of Denver. Major: Social Work. Minor: Public Health. Thesis: Family Disorganization as Associated with Severity of Handicap (By Cerebral Palsy) of a Minor Child. Major Adviser: Prof. L. N. Scott.

Richard Peyton Halverson, New  
Brighton

B.S.E.E. '51, University of North Dakota; M.Sc. '54, The Ohio State University. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Calculation of Static Magnetization Reversal in a Truncated Ferromagnetic Cylinder with Axially Applied Field. Major Adviser: Prof. W. F. Brown.

John Clarence Haugland, Superior,  
Wis.

B.S. '54, Wisconsin State College (Superior); M.A. '58, University of Minnesota. Major: History. Minor: Political Science. Thesis: Alexander Ramsey and the Republican Party, 1855-1875: A Study in Personal Politics. Major Adviser: Prof. R. C. Lochr.

Dora Kruse Hayes, St. Paul

B.S. *summa cum laude* '52, Hamline University; M.S. '53, University of Wisconsin. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Body Fluid and Skeletal Tissue Interrelations in the American Lobster. Major Adviser: Dr. W. D. Armstrong.

Joseph Francis Heinger, South  
St. Paul

B.A. '44, M.A. '48, University of Minnesota. Major: History. Minor: Political Science. Thesis: Prussian Foreign Policy During the New Era, 1858-1862. Major Adviser: Prof. H. C. Deutsch.

Miron Lee Heinselman, Grand Rapids

B.A. '42, B.S. '48, M.F. '51, University of Minnesota. Major: Forestry. Minor: Soils. Thesis: Black Spruce on the Peatlands of Former Glacial Lake Agassiz and Adjacent Areas in Minnesota: A Study of Forest Sites, Bog Processes, and Bog Types. Major Adviser: Prof. H. L. Hansen.

James Victor Higgins, Wyandotte,  
Mich.

B.S. '54, Michigan State College; M.S. '58, University of Minnesota. Major: Zoology. Minors: Biostatistics and Psychology. Thesis: An Analysis of Intelligence of 1,016 Families. Major Adviser: Prof. S. C. Reed.

Fred Arnold Johnson, Amery, Wis.

B.A. *cum laude* '52, M.A. '58, University of Minnesota. Major: Education. Minor: Political Science. Thesis: Depth Versus Breadth in Teaching American History to High School Students. Major Advisers: Profs. Edith West and R. J. Keller.

Ronald George Klietsch, Duluth

B.A. '56, M.A. '58, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: Decision-making in Dairy Farming: A Sociological Analysis. Major Adviser: Prof. M. J. Taves.

Robert Henry Kramer, Wilton

B.A. '54, B.S. '54, Bemidji State College; M.S. '60, University of Minnesota. Major: Fishery and Wildlife Management. Minor: Biostatistics. Thesis: The Early Life History of the Large-mouth Bass, *Micropterus salmoides* (Lacépède), with Special Reference to Factors Influencing Year-class Strength. Major Adviser: Prof. L. L. Smith, Jr.

Donald LeRoy Lantz, St. Paul

B.A. '51, Wheaton College; M.A. '54, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Relationships Between Self Concepts and Teaching Behaviors Among Elementary Student Teachers. Major Advisers: Profs. N. L. Bossing and C. J. Hoyt.

Theodor James Litman, Duluth

B.A. *cum laude* '54, M.A. '56, University of Minnesota. Major: Sociology. Minor: Political Science. Thesis: The Influence of Concept of Self and Life Orientation Factors Upon the Rehabilitation of Orthopedic Patients. Major Adviser: Prof. A. M. Rose.

Richard Michito Matsuura, Waialua,  
Oahu, Hawaii

B.S. '54, Oregon State College. Major: Horticulture. Minor: Plant Genetics. Thesis: A Male Sterile and an Early Ripening Mutant from Irradiation of Tomato Seeds. Major Adviser: Prof. T. M. Currence.

Donald Lee Meyer, St. Paul

B.S. '54, M.A. '58, University of Minnesota. Major: Statistics. Minor: Educational Psychology. Thesis: Response Surface Designs with Integer-Valued Factors. Major Adviser: Prof. Leonid Hurwicz.

Richard Howard Mumma, Wilmington,  
Del.

B.S. '57, University of Delaware. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: A Study of Some Benzocycloalkenes. Major Adviser: Prof. S. W. Fenton.

Arthur Benson Musgrave, Amherst,  
Mass.

B.S. '51, M.S. '51, Boston University. Major: Journalism. Minor: Political Science. Thesis: The Excessive-Time Problem in College Student Journalism. Major Adviser: Prof. R. B. Nixon.

**Charles Herbert Pyne, St. Paul**

B.S. '51, University of Rhode Island; M.S. '55, Cornell University. Major: Dairy Industries. Minor: Agricultural Biochemistry. Thesis: Reconstitution of Dry Milk Products. Major Adviser: Prof. S. T. Coulter.

**Gunther Wolfgang Rahnefeld,  
St. Paul**

B.S. in Agr. '52, M.S. '55, Montana State College. Major: Animal Husbandry. Minor: Zoology. Thesis: Response to Selection as Reflected in Population Performance and Combining Ability in Mice. Major Adviser: Prof. R. E. Comstock.

**Virginia Jeanne Rock, Plymouth,  
Mich.**

B.A. '44, M.A. '47, University of Michigan. Major: American Studies. Thesis: The Making and Meaning of *I'll Take My Stand*: A Study in Utopian-Conservatism, 1925-1939. Major Adviser: Prof. M. Q. Sibley.

**William Rosenfeld, Wilmington,  
Ohio**

B.A. '51, Utica College; M.A. '54, University of Minnesota. Major: American Studies. Minor: English. Thesis: The Divided Burden: Common Elements in the Search for a Religious Synthesis in the Works of Theodore Parker, Horace Bushnell, Nathaniel Hawthorne, and Herman Melville. Major Adviser: Prof. C. H. Foster.

**Alexander Leka Srbich, Beograd,  
Yugoslavia**

B.S. *cum laude* '38, Officers Technical College; M.A. '50, Cologne University; M.B.A. '53, B.S.E. '56, University of Michigan. Major: Industrial Management. Minor: Industrial Engineering. Thesis: Lumber Manufacturing on Two Continents: with Special Reference to the Organization and Control of Lumber Manufacturing Firms, Scientific Production Management, and Industrial Engineering Techniques. Major Adviser: Prof. A. K. Wickesberg.

**Irwin Allen Taub, Jackson Heights,  
N.Y.**

B.S. *cum laude* '55, Queens College (N.Y.). Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Solubility Studies of Nitric Oxide in Various Metal Salt Solutions: The Equilibrium Between Ferrous Ion and Nitric Oxide. Major Adviser: Prof. Z. Z. Hugus, Jr.

**Rachel Jean Taylor, Cheney, Wash.**

B.S. *summa cum laude* '31, Radford College; M.A. '42, University of Washington. Major: American Studies. Thesis: The "Return to Religion" in America after the Second World War: A Study of Religion in American Culture 1945-1955. Major Adviser: Prof. M. Q. Sibley.

**Donald Raymond Theissen, St. Paul**

B.Chem. '58, University of Minnesota. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: A Study of the Chemistry of Vinyl Sulfides and Vinyl Sulfones. Major Adviser: Prof. W. E. Parham.

**Norbert John Tracy, Minneapolis**

B.A. '47, Ph.L. '49, Loyola University; S.T.L. '57, St. Louis University. Major: Education. Minor: Educational Psychology. Thesis: Orientation of New Faculty Members in North Central Colleges and Universities. Major Advisers: Profs. R. E. Eckert and H. T. Morse.

**Carl Filip Vikner, St. Peter**

B.A. '43, Gustavus Adolphus College; M.A. '46, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: Analyses of Some Values Held by the Faculties of the Colleges of the Augustana Lutheran Church. Major Adviser: Prof. R. H. Beck.

**Alfredo B. Villanueva, Naguilian,  
La Union, Philippines**

B.A. *cum laude* '53, University of Manila; M.P.A. '56, University of the Philippines. Major: Political Science. Minor: History. Thesis: Concepts of Local Autonomy in the Philippines. Major Adviser: Prof. L. M. Short.

**Dale William Vogt, Collinsville, Ill.**

B.S. '56, Southern Illinois University; M.S. '57, University of Minnesota. Major: Animal Husbandry. Minor: Plant Genetics. Thesis: Genetic Correlations Between Some Economically Important Traits in Swine. Major Adviser: Prof. R. E. Comstock.

**Francis Joseph Wall, Hattiesburg,  
Miss.**

B.S. '47, Sul Ross State College; M.S. '56, University of Colorado. Major: Biostatistics. Minor: Industrial Engineering. Thesis: Biostatistical Linear Models in Longitudinal Medical Research. Major Adviser: Prof. R. B. McHugh.

Samuel Eugene Wallace, Kansas City, Mo.

B.A. '56, William Jewell College; M.A. '58, University of Minnesota. Major: Sociology. Minors: Philosophy and Anthropology. Thesis: Patterns of Interaction—The Significance of Numbers on Togetherness. Major Adviser: Prof. R. L. Hill.

Louis Lloyd Walters, St. Louis Park

B.A. '51, St. John's University (Minn.); M.A. '55, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: A Comparison of Achievement in High School Biology When Taught to Ninth Grade and Tenth Grade Pupils. Major Adviser: Prof. C. H. Boeck.

Wallace Milton Wass, St. Paul

B.S. with distinction '51, D.V.M. '53, University of Minnesota. Major: Veterinary Medicine. Minor: Pathology. Thesis: Studies on Bovine Porphyria. Major Adviser: Prof. H. H. Hoyt.

Merle LaRoy Weaver, Lake Park, Iowa

B.S. '55, Iowa State College. Major: Horticulture. Minor: Agricultural Botany. Thesis: A Study of the Factors Influencing the Tolerance of Pea (*Pisum sativum* L.) to MCPA (2-Methyl-4-Chlorophenoxyacetic Acid). Major Adviser: Prof. R. E. Nylund.

## Doctor of Philosophy in Pediatrics

Howard George Worthen, Minneapolis

B.A. '47, Brigham Young University; M.D. '51, Northwestern University. Major: Pediatrics. Minor: Physiological Chemistry. Thesis: Disorders of the Proximal Tubule. Major Adviser: Dr. R. A. Good.

## Doctor of Philosophy in Surgery

Kamil Imamoglu, Kayseri, Turkey

M.D. '50, University of Istanbul. Major: Surgery. Minor: Pathology. Thesis: The Origin of Gallstones. Major Adviser: Dr. O. H. Wangenstein.

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### Summary of Degrees Conferred by the University During the Academic Year 1960-61

Conferred July, August, and December 1960; March 1961.....	2815*
Conferred June 1961 (subject to completion of requirements).....	<u>2990</u>
Total degrees conferred 1960-61.....	5805

\* Includes 123 conferred at Duluth.

## Academic Costume

On appropriate occasions, anyone with a college or university degree may wear academic costume consisting of a gown, a hood, and a cap. By observing the kind of academic costume a person wears, it is possible to know the name of the university from which he graduated, as well as the degree which he holds, and, in some cases, the field of his major interest as well.

The long, pointed sleeve of the gown indicates a Bachelor's degree; the long, closed sleeve with a slit near the upper part of the arm indicates a Master's degree; and the open sleeve marks a Doctor's degree. Bachelors' and Masters' gowns are black in color and are without any trimming. Generally, the Doctor's gown is black also, but some universities, particularly those abroad, prescribe such festive colors as red, crimson, or green. All Doctors' gowns have velvet trimming on the front facings and crossbars on the sleeves. This trimming may be black, or it may match the color of the edging of the hood and thus identify the profession or field of major interest of the wearer.

At a commencement it is quite proper to wear the gown—but not the hood—appropriate for the degree which is to be received. The only hoods worn at commencements are for degrees which have already been received. Thus only those students and faculty members who have already received college or university degrees wear hoods. Anyone who has a degree from the University of Minnesota may wear a hood decorated with a maroon chevron on gold background. The length and shape of the hood indicates whether the wearer has earned a Bachelor's, a Master's, or a Doctor's degree. The velvet edging on the hood indicates the field in which the degree was granted. For example, dark blue signifies Philosophy; light blue, Education; green, Medicine; lilac, Dentistry; orange, Engineering; russet, Forestry; drab, Business; olive green, Pharmacy; purple, Law; gray, Veterinary Medicine; golden yellow, Science; and white, Arts and Letters.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidates are honor students.

Caps, generally mortarboards with tassels, have significance, too. The Doctor's tassel may be black or gold. Masters' and Bachelors' tassels are black; but at University of Minnesota commencements—upon the authority of the University Senate Committee on Functions—candidates for the Bachelors' and Associates' degrees wear tassels which indicate their schools or colleges by color as follows:

(In the order of march)

General Extension Division.....	orange and drab
General College.....	crimson and white
College of Science, Literature, and the Arts.....	white
University College.....	old gold and white

Institute of Technology.....	orange
College of Agriculture, Forestry, and Home Economics.....	maize
College of Education.....	light blue
School of Business Administration.....	drab
College of Pharmacy.....	olive
Law School.....	purple
College of Veterinary Medicine.....	gray
School of Dentistry.....	lilac
College of Medical Sciences.....	green
Graduate School.....	black

But once the Bachelor's degree has been received and the commencement is over, the graduate, should he wear academic costume again, will wear only the black tassel as does the holder of the Master's degree. Similarly, he will not in the future wear the shoulder insignia as a part of his academic dress even if he is an honor graduate. All graduates of the University should remember that the academic dress at this University conforms to the rules of the Intercollegiate Bureau of Academic Costume. This means that Minnesota academic insignia may be easily secured anywhere in the world. And it is always worn proudly and with distinction—for ours is a great University.



1862 • CENTENNIAL • 1962  
OF THE LAND-GRANT ACT

# July Commencement, 1961

## University of Minnesota

8:00 P.M., JULY 13

NORTHROP MEMORIAL AUDITORIUM

## THE BOARD OF REGENTS

Dr. O. Meredith Wilson, President

Mr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

The Honorable Ray J. Quinlivan, St. Cloud  
First Vice President and Chairman

The Honorable Charles W. Mayo, M.D., Rochester  
Second Vice President

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Bjarne E. Grottum, Jackson

The Honorable Robert E. Hess, White Bear Lake

The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable A. J. Olson, Renville

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

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SMOKING AND USE OF CAMERAS—It is requested, by action of the Board of Regents, that in Northrop Memorial Auditorium smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms. The use of cameras in the auditorium by members of the audience is prohibited.

## *This Is Your University*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and tenth birthday. In the coming year, it will join with Land-Grant colleges and state universities throughout the nation in observing the centennial of the Land-Grant Act which created educational opportunities for all citizens and which embodied the concept that the welfare of the nation is dependent on the advancement of learning.

As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the youth of today, the citizens of tomorrow. Each year, physicians, lawyers, engineers, social workers, educators, journalists, dentists, veterinarians, farmers, businessmen—community and civic leaders in all fields—go from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence the University has awarded more than 153,500 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to giving collegiate instruction to more than 28,000 students on its Minneapolis, St. Paul, Duluth, and Morris Campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members who are county agents, home agents, 4-H Club agents, and recreation and health consultants give effective assistance to citizens of the state in their very homes.

In the diverse research laboratories on the University's four campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Mayo Foundation at Rochester, the Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects deal with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and new varieties of grains, fruits, and flowers to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the University Artists Course, Radio Station KUOM, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial

Building to be constructed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Further contributions have made it possible for the University to build the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the biological-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose thoughtful cooperation has made hundreds of scholarships and fellowships available each year to students of promise. Chiefly because of financial difficulties, only one-half of the Minnesota high school graduates of high ability enter any college or university. Because of this, the friends and supporters of the University are constantly trying to increase the number of scholarships and the amount of money available for such assistance.

Over recent years, much of the University's energy has gone into the necessary planning for the anticipated increases in future enrollments. At present about half of the students in Minnesota colleges and universities attend the University of Minnesota. If the other institutions continue to take this same percentage of these students, not less than 47,000 full-time, fully matriculated students will be attending the University in 1970. This means more teachers, more civil service staff members, more land, and more buildings.

THE 1959 LEGISLATURE granted the University \$49,068,181 for general maintenance during the 1959-61 biennium. In addition, the University received \$8,879,748 for University Hospitals; \$4,141,355.69 for special appropriations, including special extension and research activities; and \$14,457,150 for new buildings, land, and for the rehabilitation of existing buildings.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request as is a much more comprehensive and complete statement for those who wish to make a special study of the University's income and expenditures.

The summary financial statement of 1959-60 showed that the University received \$90,177,067.15 and spent \$90,177,626.52. This includes a total of \$16,228,815.94 received from student tuition and fees, hospital and other department receipts; \$1,254,107.29 from intercollegiate athletics; \$15,243,194.78 from such services as dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, the University Theater, and the Health Service, and from the revolving funds; and \$20,265,209.92 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research, prizes, scholarships, and the care of the sick. Also, \$2,659,035.91 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$90,177,067.15 which the University received for 1959-60, \$34,526,703.31, or 38.3 per cent, came from the state.

All students at the University, their families and friends are invited to continue their enthusiasm and interest in the University of Minnesota. Graduates are especially urged to identify themselves with the Minnesota Alumni Association and the Greater University Fund and to return as frequently as possible to visit us here at the University.

## Order of Events

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Lowell Lindgren, SLA '64, Carillonneur. Admission to the July commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

**ORGAN PRELUDE:** From 7:30 to 8:00 p.m., Associate Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play.

**PROCESSION:** The audience is requested to remain seated so that all can see the procession. At 8:00 p.m., Associate Professor Robert M. Jordan, Ph.D., Institute of Agriculture, Faculty Marshal, will carry the Mace into the auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Jordan, as Mace Bearer, will present the Mace at the center of the stage. When all of those marching have taken their seats, he will put the Mace on the table, to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

*Allegro da Marcia* - - - - - Mendelssohn

**ON THE STAGE:** The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are: Professor Donovan A. Johnson, Ph.D., College of Education, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Horace T. Morse, Ph.D., General College; Dean Paul V. Grambsch, D.B.A., School of Business Administration; The Reverend H. A. Guiley, Adviser to Episcopal students and staff members on the Minneapolis Campus of the University; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Vice President Malcolm M. Willey, Ph.D., Academic Administration; Mr. Alan T. Waterman, Ph.D., Director, National Science Foundation, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Vice President Laurence R. Lunden, LL.D., Business Administration; Dean E. W. Ziebarth, Ph.D., Summer Session; Vice President and Administrative Assistant Stanley J. Wenberg, M.A.; Dean Walter W. Cook, Ph.D., College of Education; Mr. Joseph A. Maun, LL.B., First Vice President, University of Minnesota Alumni Association; Dean Robert B. Howard, M.D., College of Medical Sciences; Associate Dean Francis M. Boddy, Ph.D., Graduate School; Acting Dean Frank Verbrugge, Ph.D., Institute of Technology; Professor Roy A. Schuessler, M.M., Music; Assistant Professor Douglas M. Dearden, Ph.D., General College, Marshal; Associate Professor Guy M. Duckworth, Ph.D., College of Science, Literature, and the Arts, Marshal.

## *Order of Events*

**PRESENTATION OF COLORS:** As the color guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, enters the auditorium, the audience will rise and remain standing for the National Anthem and the Invocation.

**THE NATIONAL ANTHEM:** The entire audience and Professor Schuessler, soloist.

Oh, say can you see, by the dawn's early light,  
What so proudly we hailed at the twilight's last gleaming,  
Whose broad stripes and bright stars, thro' the perilous fight,  
O'er the ramparts we watched, were so gallantly streaming?  
And the rocket's red glare, the bombs bursting in air,  
Gave proof thro' the night that our flag was still there.  
Oh, say does that star-spangled banner yet wave  
O'er the land of the free and the home of the brave?

**INVOCATION:** The Reverend H. A. Guiley.

**SPEAKING FOR THE UNIVERSITY:** President O. Meredith Wilson.

**COMMENCEMENT ADDRESS:** Dr. Alan T. Waterman, Director, National Science Foundation, *The Hardest Victory*.

**PRESENTATION OF CANDIDATES:** Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction: Dean Morse for the General College; Dean McDiarmid for the College of Science, Literature, and the Arts; Acting Dean Verbrugge for the Institute of Technology; Assistant Dean McFarland for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Cook for the College of Education; Dean Grambsch for the School of Business Administration; Dean Howard for the College of Medical Sciences; Associate Dean Boddy for the Graduate School.

**CONFERRING OF DEGREES:** President Wilson will confer certificates and degrees upon the members of this graduating class.

**SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION:** Mr. Joseph A. Maun, First Vice President of the Minnesota Alumni Association.

**PRESENTATION OF DIPLOMAS:** With Dean Ziebarth presiding, members of the July graduating class will pass across the stage to receive their diplomas.

## *Order of Events*

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY:  
Candidates for this degree will be presented individually by Associate Dean Boddy to President Wilson, who will confer the degrees.

*HAIL! MINNESOTA:* The University's Alma Mater song, sung by the audience and Professor Schuessler, soloist.

Minnesota, hail to thee!  
Hail to thee, our college dear!  
Thy light shall ever be  
A beacon bright and clear;  
Thy sons and daughters true  
Will proclaim thee near and far;  
They will guard thy fame  
And adore thy name;  
Thou shalt be their Northern Star.

Like the stream that bends to sea,  
Like the pine that seeks the blue,  
Minnesota, still for thee  
Thy sons are strong and true;  
From thy woods and waters fair,  
From thy prairies waving far,  
At thy call they throng  
With their shout and song,  
Hailing thee their Northern Star.

POSTLUDE: Associate Professor Fleischer, organist.

*Phantasy in G Minor* - - - - - Bach

THE AUDIENCE is requested to remain seated until those in academic costume have left the auditorium.

## LAND-GRANT CENTENNIAL RESOLUTION PASSED BY THE LEGISLATURE OF THE STATE OF MINNESOTA

April, 1961

WHEREAS the Congress of the United States one hundred years ago passed a bill referred to as the Land-Grant Bill, and sometimes named the Morrill Bill after its principal author, Mr. Justin Morrill of Vermont, signed into law by President Abraham Lincoln in 1862, whereby grants of land were set aside for each state, for the support of public state colleges devoted to the education of the common man;

WHEREAS, under the provisions of this act, each state in these United States has been enabled to provide education for its young men and women, to the advancement of truth and to the benefit of all of the people;

WHEREAS, in the State of Minnesota, the University of Minnesota has, as a Land-Grant institution, derived great benefit through this act which has advanced the status and position of the state and its citizens; and

WHEREAS Land-Grant colleges and universities in every state have now joined together to celebrate the Centennial of the signing into law of the Land-Grant Act by President Lincoln;

BE IT NOW RESOLVED by the House of Representatives of the State of Minnesota, the Senate concurring, that this Centennial be observed and commemorated and that recognition be given by the people of the state to the Land-Grant Act as a cornerstone of public American higher education.

# *Candidates for Graduation*

Subject to the completion of all curriculum requirements at the close of the first term of the Summer Session, degrees will be conferred as indicated on those listed below and upon such others as may meet the graduation requirements.

## GENERAL COLLEGE

### Associate in Arts

David Arthur Bergquist, South St. Paul	Theodore Louis Mueller, Minneapolis
Richard C. Borden, Minneapolis	Michael Herbert Novick, St. Paul
Jack Raymond Deming, Minneapolis	Wendell Boyde Patrick, St. Paul
Charlotte Marie Dugan, Minneapolis	Michael John Schultz, St. Paul
Gary Harlan Hughes, Minneapolis	Ronald Phillip Shacter, Minneapolis
Dale Stanley Johnson, Edina	Carla Jean Wessel, Minneapolis

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

Evelyn Hoff Beckman, Berkeley, Calif.	Sharon B. Powers Thompson, St. Paul
Barbara Louise Otis, Minneapolis	

### Bachelor of Arts

Jack Brebner Becklund, Minneapolis	Helen Louise Hanover, International Falls, CUM LAUDE
Bronna Mae Bornstein, Minneapolis, CUM LAUDE	James Theodore Hansing, Minneapolis
Eric Bumbiers, Austin	Earle Conrad Hawk, Saugerties, N.Y.
Charles Harold Christensen, Minneapolis	Judith Yvonne Hegstrom, Braham
Olga Agather Cole, Minneapolis	Charlotte Jean Hellerud, Nerstrand
Sharon Susan Cooperstock, A.A., St. Louis Park	David Andrew Hennessy, Minneapolis
Patrick Ward Costigan, Minneapolis	Roger Harold Hursh, Minneapolis, CUM LAUDE
Ford William Crouch, Minneapolis*	Margaret Putnam Jamieson, Los Angeles, Calif., CUM LAUDE
Charles Alfred DuCharme, Jr., Excelsior	Harlan Randell Johnson, St. Paul
Barbara Ann Dusek, Faribault	Robert Russell Johnson, Minneapolis
Morris Haskel Freier, Minneapolis	Victor Carl Johnson, Minneapolis
David Lee Gardner, Worthington	Steven Leonard Larson, Minneapolis, MAGNA CUM LAUDE
Allan Winfield Garske, Minneapolis	Joseph Earl McGregor, International Falls
Roger Ernest Gustavson, Minneapolis	Barbara Joan Moore, Minneapolis
Jane S. McEvoy Hanlon, St. Paul, CUM LAUDE	Colin Arthur Muir, Minneapolis

\* Degree conferred as of June 10, 1961

Neva A. S. Munson, Minneapolis  
Robert Harvey Nelson, Mankato  
James Morton Neville, Edina  
Robert Henry New, Rochester  
Alan Daniel Peck, Minneapolis  
Katherine Alyce Perkins, St. Paul  
Walter William Peters, Lake City  
Loren Ralph Pickart, Winona  
Marcia Swenson Plufka, Minneapolis  
James Gregory Ring, A.A., Minneapolis  
David Lorenz Ristau, St. Paul  
Eileen Lois Tanner Rotman, St. Paul  
Michael Raymond Ruhland, Minneapolis  
Bowne Justin Sayner, LaCrosse, Wis.  
James William Scheible, New Ulm  
Marcia Howe Selden, Robbinsdale,  
CUM LAUDE

Thomas Richard Seldon, A.A.,  
Rochester  
Francis Keith Senn, Minneapolis  
Bernis Duane Shellum, Willmar  
Thomas Jay Squier, Minneapolis  
Dennis Gary Swan, A.A., Minneapolis  
Julie Ann Thiss, Minneapolis  
Pamela Thompson, Rochester  
Carolyn Marie Trott, Iowa City, Iowa,  
CUM LAUDE  
Robert Paul Van Cleave, Minneapolis  
James Lewis Wegner, Minneapolis  
Dennis William Welch, A.A., Minneapolis  
Jack T. Wells, Moorhead  
Robert Lansing Wemple, St. Paul  
David Edward Wrede, Zumbrota  
Priscilla Ellen Young, Irvington, N.Y.,  
CUM LAUDE

## INSTITUTE OF TECHNOLOGY

### Bachelor of Aeronautical Engineering

William Holbrook Goesch, Minneapolis

Roger Allen Hickman, Pine River  
James Walter Schneider, Blue Earth

### Bachelor of Chemical Engineering

Gin-Hua Yie, B.S., Taipei, China

### Bachelor of Chemistry

Lowell Norris Kayser, Jr., Minneapolis

Alan Wayne Rautio, Ely

### Bachelor of Civil Engineering

Brian Richard Waite, Winona

### Bachelor of Electrical Engineering

George Emmett Hanson, Mizpah  
William Arthur Kinghorn, Minneapolis

Robert Peter Schulte, Hutchinson  
Richard Max Sedro, St. Paul

## Bachelor of Geological Engineering

David Lee Eilertson, Calumet

## Bachelor of Mechanical Engineering

Ralph Marlyn Conrad, Waseca, WITH DISTINCTION  
Bruce Eugene Eggleston, Anoka  
Kenneth Edward Kluge, St. Paul  
George Henry Wolfe, Coon Rapids

## Bachelor of Physics

Richard Murray Brown, St. Paul  
Thomas Gary Dzubay, Minneapolis, WITH DISTINCTION  
Robert James Hokanson, Minneapolis  
Donald Joseph Paster, St. Paul

## COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

### Bachelor of Science

Roy Orvin Bratlien, Hawley, Agriculture	Sharon Ann Johnson, Guckeen, Home Economics, WITH DISTINCTION
Judith Ann DeSanto, Duluth, Home Economics	Sharon Kay Malone, Wabasha, Home Economics
Neale Louis Deters, Caledonia, Agriculture	Nancy Adele Mills, Goodhue, Home Economics
Donna Mae Flohrs, Ormsby, Home Economics	Judith Anne Nelson, St. Paul, Home Economics
Judith Ann Graber, Mora, Home Economics	Sandra Gail Pollock, St. Paul, Home Economics
John Tate Haggenmiller, St. Paul, Forestry	James Herbert Stadick, New Ulm, Agriculture
Richard Doede Harms, Hollandale, Forestry	Dorothy Gladys Holleschau Towler, Austin, Home Economics
Hui-Ying Hsu, Formosa, Home Economics	Kenneth Dean Wald, St. Paul, Forestry
H. Douglas Johnson, Fergus Falls, Agriculture	Anthony Louis Wojciak, Minneapolis, Agriculture
Robert Carl Johnson, Minneapolis, Forestry	Robert John Zenner, Belgrade, Agriculture

COLLEGE OF EDUCATION AND COLLEGE OF  
AGRICULTURE, FORESTRY, AND HOME ECONOMICS  
OF THE INSTITUTE OF AGRICULTURE

Bachelor of Science

- |   |  |
|---|--|
| Charlie Millard Alsip, South St. Paul, Agricultural Education*                    | Kenneth Matthew Carlier, South St. Paul, Agricultural Education                  |
| Nelda Marie Amdahl, Mabel, Home Economics Education                               | Mary Carolyn Gustum, Cotton, Home Economics Education                            |
| John Edward Bantz, Virginia, Agricultural Education                               | Rosalie Agnes Osowski, West Concord, Home Economics Education                    |
| Sharon Lee Sperry Berglund, Cambridge, Home Economics Education, WITH DISTINCTION | Lois Margaret Smith, Duluth, Home Economics Education                            |
| Patricia Horan Blake, Motley, Home Economics Education                            | Gretchen Mariann Ulrich, Minneapolis, Home Economics Education, WITH DISTINCTION |
| Catherine Hjerdis Bunnell, Grand Rapids, Home Economics Education                 |  |

SCHOOL OF BUSINESS ADMINISTRATION AND  
COLLEGE OF AGRICULTURE, FORESTRY, AND HOME  
ECONOMICS OF THE INSTITUTE OF AGRICULTURE

Bachelor of Agricultural Business Administration

- |  |                                   |
|--|-----------------------------------|
| Kenneth John Anderson, Eden Prairie                          | Floyd Oscar Johnson, Minneapolis, |
| Robert Eugene Evenson, Minnesota Lake, WITH HIGH DISTINCTION | WITH HIGH DISTINCTION             |

COLLEGE OF EDUCATION

Bachelor of Science

- |  |   |
|--|---|
| Myrna Amsel, B.A., Minneapolis                     | Albert Joseph Drackert, B.B.A., St. Paul            |
| Marjorie J. Anderson, Minneapolis                  | Mary Louise Wilson Durkot, Minneapolis              |
| Neal Eugene Anderson, New Brighton                 | Ronald Erling Eikaas, Minneapolis, WITH DISTINCTION |
| Gerald Michael Annis, Carlos                       | Joanne Delphine Erickson, Mora                      |
| Ruth Ellen Berg, Hopkins                           | Ruth Anne Fingerson, Minneapolis                    |
| John Fredrick Bichner, Mahtomedi                   | Alice Muriel Mongrain Floten, Duluth                |
| Elizabeth Briggs, South St. Paul, WITH DISTINCTION | Donald Dewey Fogelberg, B.A., St. Paul              |
| Joan Baker Churchill, Cloquet, WITH DISTINCTION    |   |
| Patrick Michael Doyle, Minneapolis                 |   |

\* Degree conferred as of June 10, 1961

Avis Nelson Fricker, Lake Bronson  
*Norma Helen Gardill, R.N., Pittsburgh, Pa., WITH DISTINCTION\**  
 Marna Gjevre, Minneapolis  
*Shannon Darleen Graham, Anaheim, Calif., WITH DISTINCTION\**  
 Charlotte Elizabeth Gustafson, St. Paul  
 Sharon Cozette Hultgren, Cannon Falls  
*Ethel Marie Johnson, Minneapolis, WITH DISTINCTION*  
 Barbara Elka Kaplan, Minneapolis  
*Jane Bresler Katz, B.A., St. Paul, WITH HIGH DISTINCTION*  
 Nancy Ellen Kling, Minneapolis  
*Ann Kosiak, Chisholm, WITH DISTINCTION*  
*Carol Helen Lamppa, Embarrass, WITH DISTINCTION*  
 Albert Louis Luger, Jr., B.A.A., Minneapolis  
 Joyce Ruth Miller, B.A., St. Paul  
 Helen Jane Milliner, Edgeley, N.D.  
 Glenda B. Moseman, Minneapolis  
 Howard Anthony Nathe, New Munich  
 Darlene Jane Olson, Excelsior  
 Walter Marlowe Olson, Barrett  
 Christine Platsis Parish, B.A., Haverhill, Mass.  
 Janice L. Richman Peterson, Minneapolis  
 Nancy Jane Peterson, Windom  
 Sandra Jean Rudolph, Henning  
 Phyllis M. Ryan, B.A., Minneapolis  
 Nelly Ann Taake Sherwood, Newman Grove, Neb.  
 Mabel Frances Skaff, Madison, S.D.  
 Marilyn Mae Knudtson Skarnes, Pipestone  
 Mary Lundeberg Smith, B.A., Edina  
 Michael Edwin Smith, Eden Prairie  
 Arlin Duane Snesrud, A.A., Rochester  
*Eileen Marjory Stenberg, Fridley, WITH DISTINCTION*  
 Mary Louise Thompsen, Minneapolis  
 Jeanne Kathryn Timmers, Minneapolis  
 Mary Ellen Traxler, Moose Lake\*  
 Phyllis Clara Warzecha, Holdingford\*  
 Edward Bert Wilcox, North Branch  
 Elaine Myrtle Zehnder, South St. Paul  
 Nancy Ellen Zeller, Pine Island

## Master of Education

Gladys Marie Borman, B.S., Minneapolis  
 Joan Frances Lund, B.S.N., Minneapolis  
 John Miles Lundahl, B.S., Bloomington  
 Loyd Ray Percy, B.A., Tacoma, Wash.

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Kenneth Axel Hagstrom, Minneapolis, WITH HIGH DISTINCTION  
 Richard Allen McMahan, St. Paul  
 Calvin Oren Rolloff, Minneapolis  
 Wayne Robert Sward, St. Paul

\* Nursing Education Curriculum

## Bachelor of Science in Business

Jerry Charles Figenskau, Minneapolis  
James Robert Frahm, Pipestone  
Edward Fredrick Ginsburg, Minneapolis  
Adrian Eric Herbst, Minneapolis  
Robert Michael Margo, Chisholm  
Wayne George Parker, Rosemount

Theodore McCormack Stewart, Jr.,  
Willmar  
Sverre Sveinar, Oslo, Norway  
Carlton Thiele, South Fallsburg, N.Y.  
John Peter Walker, Lakefield  
John Henry Wolf, Truman

## Bachelor of Science in Economics

Marvin Lee Knoff, Glenwood

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science in Nursing Administration

Mildred Ines Freel, Des Moines, Iowa, WITH DISTINCTION  
Irene Lillian Weiler Karin, Minneapolis, WITH DISTINCTION  
Marcella Mildred Ramey, Minneapolis, WITH DISTINCTION  
Clovis Kathleen Todd, Memphis, Tenn., WITH DISTINCTION

## Bachelor of Science

Doris Arlene Lorentson, St. Paul,  
Public Health Nursing

## GRADUATE SCHOOL

### Master of Arts

George N. Amabile, Princeton, N.J.  
B.A. *cum laude* '57, Amherst College. Field of Concentration: English.

Haakon Lyle Andreasen, Carlton  
B.S. '54, University of Minnesota. Field of Concentration: Education.

Gene Willard Anonsen, Minneapolis  
B.A. '53, St. Olaf College. Field of Concentration: Educational Psychology.

Leonard David Bart, St. Paul  
B.A. '54, University of Minnesota. Major: Speech. Minor: Educational Psychology. Thesis: A Comparative Analysis of the Development of a Major News Story by Five Minneapolis-St. Paul Radio Stations.

Solomon Becker, New York, N.Y.  
B.A. '60, City College of New York. Major: Sociology. Minor: Philosophy. Thesis: Unity and Diversity within the Jewish Community.

Wallace Melvin Bernards, Minneapolis  
B.S. '50, University of Minnesota. Field of  
Concentration: Educational Administration.

Leanne Beukelman, Peabody, Mass.  
B.A. '59, Swarthmore College. Field of Con-  
centration: English.

Edward Dickinson Blodgett, Jr.,  
Minneapolis  
B.A. '56, Amherst College. Field of Concen-  
tration: French.

Richard John Brook, Minneapolis  
B.A. '55, St. John's University (Minn.). Field  
of Concentration: Linguistics and Comparative  
Philology.

Karen Anne Bruce, Rockford, Ill.  
B.A. '58, Rockford College. Major: Sociology.  
Minor: Anthropology. Thesis: The Effect of  
Crisis on Change in a Lappish Community.

Arline Victoria Carlson, Eau Claire,  
Wis.  
B.S. '43, Wisconsin State College (Eau Claire).  
Field of Concentration: Curriculum and In-  
struction.

Dorothy Evelyn Clark, Minneapolis  
B.A. '58, Whitworth College. Field of Con-  
centration: Art Education.

Dean Lewis Coleman, Benson  
B.S. '59, University of Minnesota. Field of  
Concentration: Educational Administration.

Orlan Rodney Cox, Becker  
B.S. '52, St. Cloud State College. Field of  
Concentration: Educational Administration.

Paul Joseph Dietl, St. Paul  
B.A. '57, University of Minnesota. Major:  
Philosophy. Minor: Political Science. Thesis:  
Practical Discourse and Morality.

Richard Ryland Dohm, Minneapolis  
B.A. '52, University of Minnesota. Field of  
Concentration: Political Science.

Yael Dolev, Jerusalem, Israel  
B.A. '59, Hebrew University of Jerusalem.  
Field of Concentration: Educational Psychol-  
ogy.

Barbara Lynn Donagan, Minneapolis  
B.A. '48, University of Melbourne. Major:  
History. Minor: English. Thesis: Robert Rich,  
Second Earl of Warwick.

Howard Dennis Dyrdaahl, Deerwood  
B.B.A. '59, University of Georgia. Field of  
Concentration: Economics.

John David Erickson, Minneapolis  
B.A. magna cum laude '58, University of Min-  
nesota; M.A. '59, Harvard University. Field of  
Concentration: French.

George John Fitzpatrick, St. Paul  
B.A. '57, University of Minnesota. Field of  
Concentration: Psychology.

Keith Fort, Chattanooga, Tenn.  
B.A. '55, University of the South (Tennessee).  
Field of Concentration: English.

Jerrold Theodore Hanson, Deer River  
B.S. '56, University of Minnesota. Field of  
Concentration: Educational Psychology.

Gerhard Paul Fides Henschel, Berlin,  
Germany  
B.A. '59, Free University of Berlin. Field of  
Concentration: Industrial Relations.

Mary Louise Hera, Minneapolis  
B.A. '54, University of Minnesota. Field of  
Concentration: Library Science.

Walter Frank Hire, St. Paul  
B.S. '56, College of St. Thomas. Field of  
Concentration: Curriculum and Instruction.

Hector Marcel Hogue, Hector  
B.S.A. '50, University of Manitoba. Field of  
Concentration: Agricultural Education.

Clayton Allen Hovda, Maynard  
B.A. '56, Luther College (Iowa). Field of  
Concentration: Educational Administration.

Donald Eugene Jacobson, St. James  
B.A. '59, University of Minnesota. Field of  
Concentration: Area Studies: Russia.

Victor Albert Johnson, St. Paul  
B.A. '52, Macalester College. Field of Con-  
centration: Educational Administration.

Henry Edward Kalb, Rochester  
B.A. cum laude '58, University of Minnesota.  
Field of Concentration: Comparative Litera-  
ture.

Carl William Kroening, Minneapolis  
B.S. '54, University of Minnesota. Field of  
Concentration: Educational Administration.

Lewis Magnus Layman, Great Neck,  
N.Y.

B.A. '58, Middlebury College. Field of Con-  
centration: English.

Maurice E. LeGault, Cambridge

B.S. '57, University of Minnesota. Field of  
Concentration: Music Education.

Alice Keller Leister, Constantine,  
Mich.

B.A. '58, Ohio Wesleyan University. Field of  
Concentration: Curriculum and Instruction.

Larry Lee Leslie, Delavan

B.S. with distinction '60, University of Min-  
nesota. Field of Concentration: Educational  
Administration.

Orcena Elizabeth Lyle, Lexington, Ky.

B.A. '58, University of Minnesota. Field of  
Concentration: Child Development and Wel-  
fare.

Jewell Oneil Lyngaas, Fergus Falls

B.A. '58, Luther College (Iowa). Field of  
Concentration: Educational Psychology.

Norris Alden Magnuson, St. Paul

B.A. with highest honors '54, Bethel College  
(Minn.). Field of Concentration: Library Sci-  
ence.

Richard Joseph Maschka, Ashton,  
Neb.

B.A. '54, Hastings College. Field of Concen-  
tration: Educational Psychology.

Warren Leonard Mason, Keewatin

B.A. *cum laude* '59, University of Minnesota.  
Field of Concentration: Political Science.

Paul Warner Mausel, Minneapolis

B.A. '58, University of Minnesota. Field of  
Concentration: Geography.

Walter Lord Lynbrook Mills, Moose  
Jaw, Saskatchewan, Canada

B.A. '57, University of Saskatchewan. Field of  
Concentration: Speech and Theater Arts.

Santosh Kumar Nandy, Calcutta, India

B.A. with honors '53, M.A. '56, University of  
Calcutta. Field of Concentration: Sociology.

Doris Evelyn Nelson, Minneapolis

B.S. '31, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Mack Ardell Nettleton, Ishpeming,  
Mich.

B.S. '58, University of Minnesota. Field of  
Concentration: Educational Psychology.

John Thomas O'Connor, New York,  
N.Y.

B.A. '59, Manhattan College. Field of Con-  
centration: History.

Rosemary O'Hara, Minneapolis

B.A. *cum laude* '52, University of Louisville.  
Field of Concentration: Political Science.

Forrest Walter Olson, Stephen

B.S. '53, Moorhead State College. Field of  
Concentration: Educational Administration.

Ibrahim Mohamed Zaki Oweiss,  
Alexandria, Egypt

B. Com '52, Alexandria University (Egypt).  
Field of Concentration: Economics.

Dale William Peterson, St. Paul

B.A. *magna cum laude* '53, Macalester College.  
Field of Concentration: History.

Adrian Roy Preiswerk, Basel, Switzer-  
land

Graduate '59, University of Geneva; Graduate  
'60, Graduate Institute of International Studies  
at Geneva. Major: Political Science. Minor:  
History. Thesis: Establishment Clauses as an  
Inducement to Private Investments in Commer-  
cial Treaties of the United States.

Victoria J. Punsalan, Manila, Philip-  
pines

B.S. '52, The National Teachers College  
(Philippines). Field of Concentration: Educa-  
tional Psychology.

Margaret Luella Fiedler Radke,  
Owatonna

B.S. '56, Bemidji State College. Field of Con-  
centration: Educational Psychology.

John Elton Roling, Caledonia

B.S. '50, Wisconsin State College (La Crosse).  
Field of Concentration: Educational Adminis-  
tration.

Carl Lyle Rosen, Minneapolis

B.A. '51, Brooklyn College; B.S. '58, Univer-  
sity of Minnesota. Field of Concentration:  
Curriculum and Instruction.

Irvin Maurice Alfred Rotto, Portland,  
N. D.

B.A. '58, Luther College (Iowa). Field of  
Concentration: Area Studies: Russia.

William Frank Sagert, St. Paul

B.S. '50, University of Minnesota. Field of  
Concentration: Educational Administration.

Donald Albert Sandstrom, Berkeley,  
Calif.

B.A. '60, University of California, Berkeley.  
Field of Concentration: Industrial Relations.

Mary Louise Sauer, Pierz

B.A. '52, University of Minnesota; B.S. '56,  
St. Cloud State College. Field of Concentra-  
tion: Political Science.

Robert Harold Savre, Chatfield

B.A. '53, Luther College (Iowa). Field of  
Concentration: Curriculum and Instruction.

Keith Zuck Schmidt, Ladysmith, Wis.

B.S. '55, Wisconsin State College (River  
Falls). Field of Concentration: Educational  
Administration.

Nancy Jeanne Schmidt, Cincinnati,  
Ohio

B.A. '58, Oberlin College. Field of Concen-  
tration: International Relations.

Robert Allan Seibel, St. Paul

B.A. '54, Hamline University. Field of Con-  
centration: Curriculum and Instruction.

Jonathan Allen Shaw, Sandwich, Mass.

B.A. '59, Harvard University. Major: English  
(English Literature). Minor: English (Ameri-  
can Literature). Thesis: *Wallace Stevens, An  
American Poet.*

Marjorie Hedrick Sibley, St. Paul

B.A. '42, M.A. '43, University of Illinois.  
Field of Concentration: Library Science.

Winnifred Aletha Stanford, Ortonville

B.A. with honors '56, Bethel College (Minn.);  
B.S. '57, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Gregory Paul Stein, Wayzata

B.A. '60, St. John's University (Minn.). Field  
of Concentration: History.

Travis Irving Thompson, Minneapolis

B.A. cum laude '58, University of Minnesota.  
Field of Concentration: Psychology.

Joseph Sherwood Toft, Winnipeg,  
Manitoba, Canada

B.A. '59, University of Manitoba. Field of  
Concentration: History.

Beatrice Helen Tolppi, New York Mills

B.S. '58, University of Minnesota. Field of  
Concentration: Educational Psychology.

Newman Leonard Tuttle, Albert Lea

B.A. '50, B.S. '51, University of Minnesota.  
Field of Concentration: Educational Adminis-  
tration.

Raymond Stanley Urbas, Thorp, Wis.

B.S. '59, Wisconsin State College (Eau  
Claire). Field of Concentration: Curriculum  
and Instruction.

Sonia Topper Weller, Brooklyn, N.Y.

B.A. '56, The City College of New York.  
Field of Concentration: Library Science.

## Master of Arts in Public Administration

Robert Frank Hall, St. Paul

B.A. '60, University of Minnesota. Major:  
Public Administration. Thesis: *Decentraliza-  
tion and Regionalization of the Immigration  
and Naturalization Service.*

Thomas Alvin Morehouse, Minne-  
apolis

B.A. *magna cum laude* '60, Harvard University.  
Field of Concentration: Public Administration.

## Master of Business Administration

Wayne Cordell Lofsness, Minneapolis  
B.B.A. '59, University of Minnesota. Field of  
Concentration: Business Administration.

Alkassam Hasan Miqdadi, Tulkarm,  
Palestine

B.B.A. with high distinction '56, University  
of Minnesota. Field of Concentraiton: Business  
Administration.

## Master of Fine Arts

Roldolfo Paras Perez, Pasig, Rizal,  
Philippines

B.A. *cum laude* '57, University of the Philip-  
pines. Major: Art. Minor: Philosophy. Thesis:  
Mark Tobey: His Time and His Vision.

## Master of Science

Hossienali Amirarjomand, Teheran,  
Iran

B.A. '58, Concordia College. Field of Con-  
centration: Physics.

Gerald Francis Anderson, Duluth

B.A. '57, University of Minnesota. Major:  
Physics. Minor: Mathematics. Thesis: Propa-  
gation of Waves in Plasmas at Low Tempera-  
tures.

Edmundo Davila, Saltillo, Mexico

Graduate '59, University of Mexico. Major:  
Plant Pathology. Minor: Botany. Thesis: Late  
Blight Infection of Potato Tubers.

Grace Carolyn Friesz, Salisbury, Mo.

B.S. '59, University of Missouri. Major: Home  
Economics. Minor: Home Economics Educa-  
tion. Thesis: Effect of Laundering on Certain  
Properties of Wool and Shrinkage-Controlled  
Wool Blankets.

Robert Elmer Gubrud, Minneapolis

B.A. '59, Macalester College. Field of Con-  
centration: Business Administration.

William Amos Hicks, Saratoga  
Springs, N.Y.

B.C.E. '60, Clarkson College. Field of Con-  
centration: Public Health.

Allen Jerome Hubin, Sandstone

B.S. with highest honors '58, Wheaton Col-  
lege. Field of Concentration: Organic Chem-  
istry.

Edmundo Stevenson Isidro, Manila,  
Philippines

B.S.M.E. '56, University of the Philippines.  
Field of Concentration: Business Administra-  
tion.

Terry Charles Johnson, St. Paul

B.S. '58, Hamline University. Major: Bacteri-  
ology. Minor: Zoology. Thesis: Studies on the  
Pigment and Antibiotic Production of *Strepto-*  
*myces violaceoruber* Strain S199.

Barbara Helen Kiernat, St. Paul

B.S. with distinction '59, University of Min-  
nesota. Field of Concentration: Home Eco-  
nomics.

Charles William Lewis, Lowell, Wash.

B.A. '59, Reed College. Major: Physics. Minor:  
Mathematics. Thesis: Angular Distribution  
Study of the Reaction  $Be^0(Li^0, He^4)Be^{11}$  by  
Means of a Silicon Junction Detector.

Jay Dennis Loren, Minneapolis

B.S. with distinction '59, University of Min-  
nesota. Major: Geophysics. Minor: Electrical  
Engineering. Thesis: Amplitude Studies by  
Model Seismology of Reflections from a Free  
Surface.

Henry Martin Luther, Quetta, West  
Pakistan

M.B.B.S. '57, University of Madras. Major:  
Ophthalmology. Minor: Pathology. Thesis:  
Effect of Hyaluronic Acid Sulfate on the Pos-  
terior Segment of the Rabbit Eye.

Indira Hivale Luther, Quetta, West  
Pakistan

M.B.B.S. '54, University of Madras. Major:  
Ophthalmology. Minor: Pathology. Thesis:  
Changes in the Anterior Segment of the Rab-  
bit and Cat Eye Induced by Hyaluronic Acid  
Sulfate.

Donald Charles Markstrom, Henning  
B.S. '55, University of Minnesota. Major:  
Forestry. Minor: Agricultural Economics.  
Thesis: Strength of Small Wooden Beams.

Donald Henry Maund, Minneapolis  
B.Phys. '59, University of Minnesota. Major:  
Physics. Minor: Mathematics. Thesis: The  
Solubility of Rare Gases in Iron.

Thomas Patrick Miller, Duluth  
B.A. '58, University of Minnesota. Major:  
Geology. Minor: Mining Engineering. Thesis:  
A Study of the Sioux Formation of the New  
Ulm Area.

Abdur Rahim Mir, Lyallpur, Pakistan  
B.S. '42, M.S. '59, University of Punjab. Field  
of Concentration: Plant Genetics.

Kesava Govindan Nair, Trivandrum,  
Kerala, India  
B.S. in C.E. '50, University of Travancore;  
M.E. '58, University of Calcutta. Field of  
Concentration: Public Health.

Richard Gladstone Oakes, Rockford,  
Ill.  
B.S. '51, University of Arizona; D.V.M. '56,  
Colorado State College. Field of Concentra-  
tion: Veterinary Bacteriology.

Arthur George Raske, Minneapolis  
B.S. '59, University of Minnesota. Major:  
Entomology. Minor: Botany. Thesis: Life Cycle  
and Biology of the Pine Bark Aphid, *Pineus  
strobi* (Adelgenae, Phylloxeridae) plus Ana-  
tomical Description of Immature and Adult  
Forms.

Manuel Jesus Rosero, Colombia  
Graduate '55, University of Colombia. Major:  
Agronomy. Minor: Plant Pathology. Thesis:  
Components of Yield in Barley and Their  
Associations.

Gerald Edward Schultz, Minneapolis  
B.S. with distinction '58, University of Min-  
nesota. Major: Geology. Minor: Physical  
Chemistry. Thesis: The Relationship of Nevada  
Mining Districts to Major Geologic Structures  
and Formations.

Billy Pei-chi Soong, Shalyi, China  
B.S. '55, National Taiwan University. Field of  
Concentration: Business Administration.

Ernest James Torok, Toledo, Ohio  
B.A. '57, Pennsylvania State University. Field  
of Concentration: Physics.

Gerald Frank Webers, Racine, Wis.  
B.S. '54, Lawrence College. Major: Geology.  
Minor: Geophysics. Thesis: A Study of the  
Conodonts of the Dubuque Formation of  
Minnesota.

Thomas Clarence Winter, West St.  
Paul  
B.A. '58, University of Minnesota. Major:  
Geology. Minor: Botany. Thesis: A Pollen  
Analysis of Kirchner Marsh, Dakota County,  
Minnesota.

Grenith Johnson Zimmerman, St. Paul  
B.A. '58, University of Minnesota. Field of  
Concentration: Mathematics.

## Master of Science in Anesthesiology

Hugh Donald Westgate, Vancouver,  
British Columbia, Canada

M.D. '54, University of British Columbia.  
Major: Anesthesiology. Minor: Physiology.  
Thesis: Histamine Release and Airway Re-  
sistance Changes in the Human Following  
Intravenous D-Tubocurarine.

## Master of Science in Chemical Engineering

Panayotis Pantelis Demopoulos,  
Kastoria, Greece

B.S. '58, Missouri School of Mines. Major: Chemical Engineering. Minor: Mathematics. Thesis: Liquid-Liquid Dissolution.

David Rutherford Vaughn, Gastonia,  
N.C.

B.S. Ch.E. '51, Michigan College of Mining and Technology. Major: Chemical Engineering. Minor: Mathematics. Thesis: Chandra's Columnar Smoke Patterns in Thin Gas Layers Heated Beneath.

Donald Gustav Gyde, Roscommon,  
Mich.

B.S. '59, Michigan State University. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Chemical Treatment of Fine Particles.

## Master of Science in Civil Engineering

Erol Abiral, Istanbul, Turkey

B.S. in C.E. '59, Robert College. Field of Concentration: Civil Engineering.

Juen-Shing Chiu, Kwangtung, China

B.S. '56, National Taiwan University. Field of Concentration: Civil Engineering.

Kao Ding Chiu, Jung Chia, Chekiang,  
China

B.S. '58, National Taiwan University. Field of Concentration: Civil Engineering.

Manuel Francisco Corrales, Heredia,  
Costa Rica

C.E. '60, University of Costa Rica. Field of Concentration: Civil Engineering.

Chao-An Hsieh, Taipei, China

B.S. '56, National Taiwan University. Field of Concentration: Civil Engineering.

Bhaskar Dhanji Kolhe, Poona, India

B.E.(Civ.E.) '55, University of Poona. Field of Concentration: Civil Engineering.

Warren Willard Krech, South St. Paul

B.S. with distinction '59, University of Minnesota. Field of Concentration: Civil Engineering.

Robert Kwock Keong Pang, Honolulu,  
Hawaii

B.S.C.E. '49, Purdue University. Field of Concentration: Civil Engineering.

Prabhakar Natwarlal Parikh, Bombay,  
India

B.E. '59, Bombay University. Field of Concentration: Civil Engineering.

## Master of Science in Dentistry

Dan Edward Tolman, Omaha, Neb.

B.S.B.A. '53, B.S.D. '57, D.D.S. '57, University of Nebraska. Major: Dentistry. Minor: Pathology. Thesis: Nerve Endings in Gingival Tissue.

## Master of Science in Dermatology

Denny Lee Tuffanelli, Rochester  
B.A. '51, M.D. '55, Stanford University.  
Major: Dermatology. Minor: Pathology. Thesis:  
Scleroderma: A Twenty Year Study.

John Robert West, Pleasant Grove,  
Utah  
B.A. '52, M.D. '55, Stanford University.  
Major: Dermatology. Minor: Pathology. Thesis:  
Atopic Dermatitis and Hypnosis: An Investigation  
of Physiologic Stigmata Before, During  
and After Hypnosis.

## Master of Science in Electrical Engineering

Dimitrios Constantinos Agouridis,  
Dafnohorion, Greece  
B.S. '59, University of Minnesota. Major:  
Electrical Engineering. Minor: Mathematics.  
Thesis: A Study of Noise in Tunnel Diodes  
in the Positive Resistance Regions.

Shao-Han Shou, Chekiang, China  
B.S.E.E. '52, National Taiwan University.  
Major: Electrical Engineering. Minor: Mathe-  
matics. Thesis: A Low Frequency Reactance  
Amplifier Using Varactor Diodes.

## Master of Science in Mechanical Engineering

Roger Frank Yurczyk, St. Joseph  
B.S. with distinction '59, University of Min-  
nesota. Field of Concentration: Mechanical  
Engineering.

## Master of Science in Medicine

Richard J. Cheesman, Rochester  
M.D. '52, University of Lima. Major: Medi-  
cine. Minor: Physiology. Thesis: Distortion of  
Indicator-Dilution Curves by the Sampling-  
Recording System and a Suggested Method for  
Its Correction.

Stafford William Gedge, Marshfield,  
Wis.  
B.A. '51, Macalester College; M.D. '55, Al-  
bany Medical College. Major: Medicine.  
Minor: Pathology. Thesis: Clinically Diagnosed  
Multiple Myocardial Infarctions: A Clinical-  
Pathologic Study.

Donald Bothen Hunton, Cheyenne,  
Wyo.

B.S. '50, University of Wyoming; M.D. '54,  
University of Rochester. Major: Medicine.  
Minor: Physiology. Thesis: Studies of Hepatic  
Function with Indocyanine Green.

George Atkinson Pankey, Ruston, La.  
M.D. '57, Tulane University. Major: Medi-  
cine. Minor: Bacteriology. Thesis: Acute Bac-  
terial Endocarditis at the University of Min-  
nesota Hospitals, 1939-1959.

Harry Arvid Swedlund, Rochester  
B.A. '50, M.D. '54, University of Minnesota.  
Major: Medicine. Minor: Pathologic Anatomy.  
Thesis: A Clinico-Pathologic Study Regarding  
the Feasibility of Direct Surgical Treatment  
for Occlusive Coronary Artery Disease.

## Master of Science in Metallurgical Engineering

Alan Taylor Gorton, Pelican Rapids

B.S. with distinction '59, University of Minnesota. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: The Lattice Parameter of Iron and Its Oxides at High Temperatures.

## Master of Science in Mineral Engineering

John Kenneth Hammes, Minneapolis  
B.A. '56, University of Missouri. Field of Concentration: Mineral Engineering.

Antoni Wodzicki, Wellington, New Zealand

B.E. '57, O.A.S.M. '58, University of Otago. Field of Concentration: Mineral Engineering.

## Master of Science in Orthopedic Surgery

James Allen Holbert, Coos Bay, Ore.

B.A. '50, M.D. '53, State University of Iowa. Major: Orthopedic Surgery. Minor: Pathology. Thesis: A Study of Osteogenic Sarcoma by Biophysical Technics Correlated with Special and Routine Histologic Methods.

## Master of Science in Pathology

Howard Filmore Taswell, Rochester

B.A. '49, Harvard University; M.D. '53, New York University. Major: Pathology. Minor: Hematology. Thesis: The Use of Acrylonitrile as a Histochemical Reagent (The Identification and Demonstration of Cellulose Fibers and Other Polysaccharides in Tissue).

## Master of Science in Radiology

Robert Hall Thoeny, Rochester

B.A. '53, Princeton University; M.D. '57, Northwestern University. Major: Radiology. Minor: Pathology. Thesis: Dysgerminoma of the Ovary: A Clinico-pathologic Study with Emphasis on the Role of Radiation Therapy.

## Master of Science in Surgery

Stephen Walker Carveth, Lincoln,  
Neb.

B.A. '52, M.D. '56, University of Nebraska.  
Major: Surgery. Minor: Pathology. Thesis:  
Motor Action of the Canine Esophagus and  
Gastroesophageal Sphincter After Muscle and  
Nerve Interruption Procedures.

## Master of Social Work

Richard Harold Gaulke, St. Paul

B.A. '56, University of Minnesota. Field of  
Concentration: Social Work.

John Zay McKenney, Circle Pines

B.A. '52, Brown University. Field of Concen-  
tration: Social Work.

## Doctor of Philosophy

Wallace Earl Anderson, Gainsville,  
Fla.

B.A. *cum laude* '53, Macalester College; M.A.  
'58, University of Minnesota. Major: Philoso-  
phy. Minor: English. Thesis: Mind and Nature  
in the Early Philosophical Writings of Jona-  
than Edwards. Major Adviser: Prof. Alan  
Donagan.

Bülent Hasip Atabek, Ankara, Turkey

M.S. in Aero.E. '49, Technical University of  
Istanbul. Major: Fluid Mechanics. Minor:  
Mathematics. Thesis: Unsteady and Oscillatory  
Flows in the Entrance Regions of the Co-  
axial Tubes, Tubes and Channels. Major Ad-  
viser: Prof. N. R. Amundson.

Zdenek Cernohous, Minneapolis

B.A. '53, St. John's University (Minn.); M.A.  
'55, University of Minnesota. Major: Eco-  
nomics. Minor: Political Science. Thesis:  
Evaluation of the Bauer-Paish Proposal for the  
Reduction of Fluctuations in the Incomes of  
Primary Producers. Major Adviser: Prof.  
Edward Coen.

Chang-Sun Chang, Taiwan, China

B.S. in Civ.E. '55, University of Illinois;  
M.S. '57, University of Minnesota. Major:  
Mechanics and Materials. Minor: Mathematics.  
Thesis: Thermoelastic Damping. Major Adviser:  
Prof. L. E. Goodman.

John Ashley Crane, St. Paul

B.A. '45, University of Manitoba; M.S.W. '50,  
McGill University. Major: Social Work. Minor:  
Sociology. Thesis: The Reliability of Casework  
Diagnostic Judgments in Marital Problem  
Cases at Intake in a Family Agency. Major  
Adviser: Prof. L. N. Scott.

Mary Elizabeth Dempsey, St. Paul

B.A. '50, College of St. Catherine; M.S. '52,  
Wayne State University. Major: Physiological  
Chemistry. Minor: Physiology. Thesis: Studies  
on the Possible Occurrence of Unrecognized  
Phosphate Compounds Related to Muscle Con-  
traction and Oxidative Phosphorylation. Major  
Adviser: Prof. P. D. Boyer.

Kermit Leroy Garlid, Minneapolis

B.S. '50, Wisconsin State College (River  
Falls); B.Ch.E. with high distinction '56,  
University of Minnesota. Major: Chemical  
Engineering. Minor: Physical Chemistry. The-  
sis: A Theoretical Study of the Transient  
Operation and Stability of Two Phase Natural  
Circulation Loops. Major Adviser: Prof. N. R.  
Amundson.

Robert Karl Gilmore, Springfield, Mo.

B.S. '49, B.S. in Ed. '50, Southwest Missouri  
State College; M.A. '54, St. Louis University.  
Major: Speech and Theater Arts. Minors:  
German and Scandinavian. Thesis: Theatrical  
Elements in Folk Entertainment in the Mis-  
souri Ozarks 1885-1910. Major Adviser: Prof.  
K. L. Graham.

David Trumbull Hakes, St. Paul

B.A. '56, Wesleyan University; M.A. '59, University of Minnesota. Major: Psychology. Minor: Journalism. Thesis: The Role of Stimulus and Response Familiarization in Paired-Associate Learning. Major Adviser: Prof. J. J. Jenkins.

Daniel Isaak, Dinuba, Calif.

B.A. '54, Tabor College; M.A. '57, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: The Ecological Life History of the Fathead Minnow, *Pimephales promelas* (Rafinesque). Major Adviser: Prof. Samuel Eddy.

Duane Arnold Jones, Northfield

B.A. *cum laude* '57, St. Olaf College. Major: Organic Chemistry. Minor: Chemistry. Thesis: Ring Expansion and Addition Reactions of Isatogens with Ammonia, Tetracyanoethylene, and Other Unsaturated Systems. Major Adviser: Prof. W. E. Noland.

Patricia Lancgran Kane, St. Paul

B.A. '47, Macalester College; M.A. '50, University of Minnesota. Major: American Studies. Thesis: Legal Fictions: The Lawyer in the American Novel. Major Adviser: Prof. J. C. Levenson.

Marguerite Cuddy Krebs, Mankato

B.S. with distinction '44, M.A. '49, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: A Study of the Relationships Between Attitudes and Information About Mental Illness. Major Adviser: Prof. C. G. Wrenn.

Virgil John Kroeger, Minneapolis

B.S. '40, South Dakota State College of Agriculture and Mechanic Arts; M.A. '52, University of Minnesota. Major: Sociology. Minor: Economics. Thesis: A Study in the Classification of Delinquent Behavior. Major Adviser: Prof. E. D. Monachesi.

Doris Helen Linder, Sacramento, Calif.

B.A. '46, M.A. '49, Stanford University. Major: History. Minor: Area Studies: Scandinavia. Thesis: The Reaction of Norway to American Foreign Policy, 1918-1939. Major Adviser: Prof. W. D. Beatty.

Anthony Stanley Lis, Tulsa, Okla.

B.S. in Ed. *cum laude* '50, Salem State Teachers College; M.S. '51, Oklahoma A & M College. Major: Education. Minor: Area Studies: Russia. Thesis: Attitudes and Practices of Executives and Secretaries Concerning Disputable Items of English Usage in Secretarial Handbooks: A Study Made in the Oil Industry in Tulsa, Oklahoma. Major Adviser: Prof. R. G. Price.

Lowell Lyndon Manfull, Ogden, Utah

B.A. '53, M.A. '55, University of Utah. Major: Speech and Theater Arts. Minor: English. Thesis: Drama as Role-Playing: A Technique for Analysis. Major Adviser: Prof. D. W. Thompson.

Robert Charles Meier, Seattle, Wash.

B.S. with distinction '52, Indiana University; M.A. '55, University of Minnesota. Major: Business Administration. Minor: Industrial Engineering. Thesis: The Administration of Industrial Operations Research. Major Adviser: Prof. A. K. Wickesberg.

Wayne Graham Menke, St. Paul

B.A. '50, Chico State College; M.A. '59, University of Minnesota. Major: American Studies. Thesis: The Doctor: Change and Conflict in American Medical Practice. Major Adviser: Prof. M. Q. Sibley.

Frank Gerald Nordlie, New London

B.S. '54, St. Cloud State College; M.A. '58, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: Some Effects of Thermal Acclimation on Peptic Digestive Capacity in the Black Bullhead *Ictalurus melas* (Raf.). Major Adviser: Prof. Samuel Eddy.

Robert Carl Petersen, New York, N.Y.

B.S. '53, City of College of New York. Major: Psychology. Minor: Psychiatry. Thesis: The Effect of Item Content and Distribution Instructions upon Reliability in the Rating of Psychiatric Patients. Major Adviser: Prof. P. E. Meehl.

Stanley David Sahlstrom, St. Cloud

B.S. with distinction '42, M.S. '53, University of Minnesota. Major: Education. Minor: Agricultural Education. Thesis: Factors Influencing College Attendance Plans of Capable Rural High School Seniors. Major Adviser: Prof. M. J. Peterson.

Francis Xavier Shea, Boston, Mass.

B.A. '49, M.A. '50, Boston College. Major: English. Minor: Philosophy. Thesis: The Text of *Our Mutual Friend*: A Study of the Variations Between the Copy Text and the First Printed Edition. Major Adviser: Prof. G. R. Stange.

Audrey M. Shechtman, Minneapolis

B.S. '53, Wisconsin State College (Milwaukee); M.A. '55, University of Minnesota. Major: Child Development and Welfare. Minor: Psychology. Thesis: The Relationship of Variability in Children's Verbal and Non-Language Test Performance to Current and Later Behavioral Functions. Major Adviser: Prof. M. F. Roff.

David Hugh Sowle, Jonesboro, Ark.  
B.S. '53, Yale University; M.S. '59, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Magnetic Effects of High Altitude, Large Yield Nuclear Explosions. Major Adviser: Prof. P. J. Kellogg.

David Lyle Stockman, Charleston, Ill.  
B.S. '57, Eastern Illinois University. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: The Reversible Bleaching of Chlorophyll. Major Adviser: Prof. R. S. Livingston.

Aurelio A. Torres-Gonzalez, Minneapolis

B.A. '50, Colegio de Belen; Ph.D. '56, University of Havana. Major: Psychology. Minor: Child Development and Welfare. Thesis: Anxiety Versus Escape Conditioning and Tranquilizing Action. Major Adviser: Prof. S. R. Hathaway.

David Justin Ward, Beltsville, Md.  
B.Sc. in Agr. '47, M.Sc. '48, University of Nebraska. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Some Evolutionary Aspects of Certain Morphologic Characters in a World Collection of Barleys. Major Adviser: Prof. J. W. Lambert.

David Mayer Wark, Los Angeles, Calif.

B.A. '56, Pomona College. Major: Psychology. Minors: Sociology and Political Science. Thesis: Longitudinal Study of Verbal Learning in the Stimulus Equivalence and Response Equivalence Paradigms. Major Adviser: Prof. J. J. Jenkins.

Yun Chow Whang, Foo Chow, China  
B.S. in Mech.Eng. '54, Taiwan College of Engineering. Major: Fluid Mechanics. Minor: Mathematics. Thesis: A Kinetic Theory Approach to the Structure of Shock Waves in a Fully Ionized Gas. Major Adviser: Prof. C. C. Chang.

James Spencer Whittier, Farmington  
B.S. with high distinction '57, M.S. '58, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Phenomenological Theories of Hysteretic Material Damping with Application to the Vibrations of Circular Plates. Major Adviser: Prof. L. E. Goodman.

John Weir Willcoxon III, Richmond, Va.

B.A. *cum laude* '52, Washington and Lee University; M.A. '57, University of Minnesota. Major: Speech and Theater Arts. Minor: Latin. Thesis: A Translation and Adaptation of Plautus' *Amphitruo*: with Introductory Essays, Analyzing the Plautine Text and Its Production and Tracing the Adaptations Made of the Play in French and English. Major Advisers: Profs. F. M. Whiting and N. J. DeWitt.

## Doctor of Philosophy in Medicine

Carl Stuart Alexander, St. Paul

B.A. '44, University of Wisconsin; M.D. '48, Columbia University. Major: Medicine. Minor: Anatomy. Thesis: Studies in Experimental and Clinical Diabetes Insipidus. Major Adviser: Dr. E. B. Flink.

## Doctor of Philosophy in Surgery

Harlan David Root, Minneapolis

B.A. with distinction '50, M.D. '53, Cornell University. Major: Surgery. Minors: Physiological Chemistry and Pathology. Thesis: Gastric Digestion with Hypothermia: Observations and Applications. Major Adviser: Dr. O. H. Wangensteen.

## *Academic Costume*

On appropriate occasions, anyone with a college or university degree may wear academic costume consisting of a gown, a hood, and a cap. By observing the kind of academic costume a person wears, it is possible to know the name of the university from which he graduated, as well as the degree which he holds, and, in some cases, the field of his major interest as well.

The long, pointed sleeve of the gown indicates a Bachelor's degree; the long, closed sleeve with a slit near the upper part of the arm indicates a Master's degree; and the open sleeve marks a Doctor's degree. Bachelors' and Masters' gowns are black in color and are without any trimming. Generally, the Doctor's gown is black also, but some universities, particularly those abroad, prescribe such festive colors as red, crimson, or green. All Doctors' gowns have velvet trimming on the front facings and crossbars on the sleeves. This trimming may be black, or it may match the color of the edging of the hood and thus identify the profession or field of major interest of the wearer.

At a commencement it is quite proper to wear the gown—but not the hood—appropriate for the degree *which is to be received*. The only hoods worn at commencements are for degrees which have already been received. Thus only those students and faculty members who have already received college or university degrees wear hoods. Anyone who has a degree from the University of Minnesota may wear a hood decorated with a maroon chevron on gold background. The length and shape of the hood indicates whether the wearer has earned a Bachelor's, a Master's, or a Doctor's degree. The velvet edging on the hood indicates the field in which the degree was granted. For example, dark blue signifies Philosophy; light blue, Education; green, Medicine; lilac, Dentistry; orange, Engineering; russet, Forestry; drab, Business; olive green, Pharmacy; purple, Law; gray, Veterinary Medicine; golden yellow, Science; and white, Arts and Letters.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidates are honor students.

Caps, generally mortarboards with tassels, have significance, too. The Doctor's tassel may be black or gold. Masters' and Bachelors' tassels are black; but at University of Minnesota commencements—upon the authority of the University Senate Committee on Functions—candidates for the Bachelors' and Associates' degrees wear tassels which indicate their schools or colleges by color as follows:

(In the order of march)

General College .....	crimson and white
College of Science, Literature, and the Arts .....	white
Institute of Technology .....	orange

College of Agriculture, Forestry, and Home Economics .....	maize
College of Education .....	light blue
School of Business Administration .....	drab
College of Medical Sciences .....	green
Graduate School .....	black

But once the Bachelor's degree has been received and the commencement is over, the graduate, should he wear academic costume again, will wear only the black tassel as does the holder of the Master's degree. Similarly, he will not in the future wear the shoulder insignia as a part of his academic dress even if he is an honor graduate. All graduates of the University should remember that the academic dress at this University conforms to the rules of the Intercollegiate Bureau of Academic Costume. This means that Minnesota academic insignia may be easily secured anywhere in the world. And it is always worn proudly and with distinction—for ours is a great University.



# President's Reception

JULY, 1961

- The members of the graduating class, their families and friends, are invited to attend the President's Reception immediately after the commencement exercises. The reception will be held on the terrace of the Coffman Memorial Union. In case of rain the ballroom will be used.
- Those in the receiving line will be President and Mrs. Wilson, Mr. Ronald Moc, President of the Coffman Union Board of Governors, and Mr. Thomas Olson, President of the Minnesota Student Association.
- Assisting in the Reception are members of the Union Board of Governors and its committees, and of the following honorary societies: Chimes, Grey Friars, Iron Wedge, Mortar Board, Phoenix, and Silver Spur.
- Punch will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.
- The Florentine Fountain, newly installed on the Terrace and dedicated on May 18, 1961, is a gift from the late Regent James Ford Bell. The Fountain was made in Florence in 1620 by Pietro Tacca.



1862 • CENTENNIAL • 1962  
OF THE LAND-GRANT ACT

# August Commencement, 1961

## University of Minnesota

8:00 P.M., AUGUST 17

NORTHROP MEMORIAL AUDITORIUM

## THE BOARD OF REGENTS

Dr. O. Meredith Wilson, President

Mr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

The Honorable Ray J. Quinlivan, St. Cloud  
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The Honorable Robert E. Hess, White Bear Lake

The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable A. J. Olson, Renville

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

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SMOKING AND USE OF CAMERAS—It is requested, by action of the Board of Regents, that in Northrop Memorial Auditorium smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms. The use of cameras in the auditorium by members of the audience is prohibited.

## *This Is Your University*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and tenth birthday. In the coming year, it will join with Land-Grant colleges and state universities throughout the nation in observing the centennial of the Land-Grant Act which created educational opportunities for all citizens and which embodied the concept that the welfare of the nation is dependent on the advancement of learning.

As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the youth of today, the citizens of tomorrow. Each year, physicians, lawyers, engineers, social workers, educators, journalists, dentists, veterinarians, farmers, businessmen—community and civic leaders in all fields—go from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence the University has awarded more than 153,500 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to giving collegiate instruction to more than 28,000 students on its Minneapolis, St. Paul, Duluth, and Morris Campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members who are county agents, home agents, 4-H Club agents, and recreation and health consultants give effective assistance to citizens of the state in their very homes.

In the diverse research laboratories on the University's four campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Mayo Foundation at Rochester, the Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects deal with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and new varieties of grains, fruits, and flowers to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the University Artists Course, Radio Station KUOM, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial

Building to be constructed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Further contributions have made it possible for the University to build the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the biological-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose thoughtful cooperation has made hundreds of scholarships and fellowships available each year to students of promise. Chiefly because of financial difficulties, only one-half of the Minnesota high school graduates of high ability enter any college or university. Because of this, the friends and supporters of the University are constantly trying to increase the number of scholarships and the amount of money available for such assistance.

Over recent years, much of the University's energy has gone into the necessary planning for the anticipated increases in future enrollments. At present about half of the students in Minnesota colleges and universities attend the University of Minnesota. If the other institutions continue to take this same percentage of these students, not less than 47,000 full-time, fully matriculated students will be attending the University in 1970. This means more teachers, more civil service staff members, more land, and more buildings.

THE 1959 LEGISLATURE granted the University \$49,068,181 for general maintenance during the 1959-61 biennium. In addition, the University received \$8,879,748 for University Hospitals; \$4,141,355.69 for special appropriations, including special extension and research activities; and \$14,457,150 for new buildings, land, and for the rehabilitation of existing buildings.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request as is a much more comprehensive and complete statement for those who wish to make a special study of the University's income and expenditures.

The summary financial statement of 1959-60 showed that the University received \$90,177,067.15 and spent \$90,177,626.52. This includes a total of \$16,228,815.94 received from student tuition and fees, hospital and other department receipts; \$1,254,107.29 from intercollegiate athletics; \$15,243,194.78 from such services as dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, the University Theater, and the Health Service, and from the revolving funds; and \$20,265,209.92 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research, prizes, scholarships, and the care of the sick. Also, \$2,659,035.91 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$90,177,067.15 which the University received for 1959-60, \$34,526,703.31, or 38.3 per cent, came from the state.

All students at the University, their families and friends are invited to continue their enthusiasm and interest in the University of Minnesota. Graduates are especially urged to identify themselves with the Minnesota Alumni Association and the Greater University Fund and to return as frequently as possible to visit us here at the University.

## Order of Events

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Lowell Lindgren, SLA '64, Carillonneur. Admission to the August commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

**ORGAN PRELUDE:** From 7:30 to 8:00 p.m., Associate Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play.

**PROCESSION:** The audience is requested to remain seated so that all can see the procession. At 8:00 p.m., Professor William S. Howell, Ph.D., College of Science, Literature, and the Arts, Faculty Marshal, will carry the Mace into the Auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Howell, as Mace Bearer, will present the Mace at the center of the stage. When all of those marching have taken their seats, he will put the Mace on the table, to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

*Trumpet Voluntary in D Major* - - - - - Purcell

**ON THE STAGE:** The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are: Professor Edward B. Stanford, Ph.D., Director of Libraries, Marshal; Mr. Charles F. Liesenfelt, M.S., Assistant to the Recorder; Major Clark Edwards, USA, Assistant Professor of Military Science; Assistant Dean Richard J. FitzGerald, LL.B., Law School; Professor David R. Briggs, Ph.D., Graduate School; Associate Dean J. William Buchta, Ph.D., University College; Assistant Dean William Fleeson, M.D., College of Medical Sciences; Dean Harold Macy, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; The Reverend Edwin Johnson, Adviser to Congregational, Evangelical-Reformed, and Presbyterian students and staff members on the St. Paul Campus of the University; Dean E. W. Ziebarth, Ph.D., Summer Session; The Honorable Luther W. Youngdahl, LL.B., Judge of the United States District Court for the District of Columbia, Commencement Speaker; Dean Bryce Crawford, Jr., Ph.D., Graduate School; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Dean Robert E. Summers, Ph.D., Admissions and Records; Dean Horace T. Morse, Ph.D., General College; Acting Dean Frank Verbrugge, Ph.D., Institute of Technology; Associate Dean Marcia Edwards, Ph.D., College of Education; Professor Edwin L. Haislet, Ed.D., Executive Secretary of the Minnesota Alumni Association and Director of the Department of Alumni Relations; Captain Cary H. Hall, USN, Professor of Naval Science; Associate Professor Arnold F. Caswell, Ed.D., Music Education; Professor Theodore W. Clymer, Ph.D., College of Education, Marshal; Associate Professor Olaf E. Kolari, Ph.D., Institute of Agriculture, Marshal.

## *Order of Events*

**PRESENTATION OF COLORS:** As the color guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, enters the auditorium, the audience will rise and remain standing for the National Anthem and the Invocation.

**THE NATIONAL ANTHEM:** The entire audience and Professor Caswell, soloist.

Oh, say can you see, by the dawn's early light,  
What so proudly we hailed at the twilight's last gleaming,  
Whose broad stripes and bright stars, thro' the perilous fight,  
O'er the ramparts we watched, were so gallantly streaming?  
And the rocket's red glare, the bombs bursting in air,  
Gave proof thro' the night that our flag was still there.  
Oh, say does that star-spangled banner yet wave  
O'er the land of the free and the home of the brave?

**INVOCATION:** The Reverend Edwin Johnson.

**SPEAKING FOR THE UNIVERSITY:** Dean Bryce Crawford, Jr.

**COMMENCEMENT ADDRESS:** The Honorable Luther W. Youngdahl, Judge of the United States District Court for the District of Columbia, *Tyranny of Words*.

**CONFERRING OF ROTC CERTIFICATES:** Dean Ziebarth will introduce Major Edwards and Captain Hall, who will present the candidates for commissions in their respective branches of the Armed Services. Certificates of ROTC completion will be presented by Dean Crawford.

**PRESENTATION OF CANDIDATES:** Dean Ziebarth will introduce the deans of the several colleges or their representatives who will present to Dean Crawford the candidates for certificates and degrees. They are, in order of their introduction: Dean Morse for the General College; Dean McDiarmid for the College of Science, Literature, and the Arts; Associate Dean Buchta for University College; Acting Dean Verbrugge for the Institute of Technology; Dean Macy for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Edwards for the College of Education; Dean Grambsch for the School of Business Administration; Assistant Dean FitzGerald for the Law School; Assistant Dean Fleeson for the College of Medical Sciences; Professor Briggs for the Graduate School.

**CONFERRING OF DEGREES:** Dean Crawford will confer certificates and degrees upon the members of this graduating class.

## *Order of Events*

**SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION:** Professor Edwin L. Haislet, Executive Secretary of the Minnesota Alumni Association and Director of the Department of Alumni Relations.

**PRESENTATION OF DIPLOMAS:** With Dean Summers presiding, members of the August graduating class will pass across the stage to receive their diplomas.

**CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY:** Candidates for this degree will be presented individually by Professor Briggs to Dean Crawford, who will confer the degrees.

**HAIL! MINNESOTA:** The University's Alma Mater song, sung by the audience and Professor Caswell, soloist.

Minnesota, hail to thee!  
Hail to thee, our college dear!  
Thy light shall ever be  
A beacon bright and clear;  
Thy sons and daughters true  
Will proclaim thee near and far;  
They will guard thy fame  
And adore thy name;  
Thou shalt be their Northern Star.

Like the stream that bends to sea,  
Like the pine that seeks the blue,  
Minnesota, still for thee  
Thy sons are strong and true;  
From thy woods and waters fair,  
From thy prairies waving far,  
At thy call they throng  
With their shout and song,  
Hailing thee their Northern Star.

**POSTLUDE:** Associate Professor Fleischer, organist.

*Fugue in G Major* - - - - - Bach

**THE AUDIENCE** is requested to remain seated until those in academic costume have left the auditorium.

## LAND-GRANT CENTENNIAL RESOLUTION PASSED BY THE LEGISLATURE OF THE STATE OF MINNESOTA

April, 1961

WHEREAS the Congress of the United States one hundred years ago passed a bill referred to as the Land-Grant Bill, and sometimes named the Morrill Bill after its principal author, Mr. Justin Morrill of Vermont, signed into law by President Abraham Lincoln in 1862, whereby grants of land were set aside for each state, for the support of public state colleges devoted to the education of the common man;

WHEREAS, under the provisions of this act, each state in these United States has been enabled to provide education for its young men and women, to the advancement of truth and to the benefit of all of the people;

WHEREAS, in the State of Minnesota, the University of Minnesota has, as a Land-Grant institution, derived great benefit through this act which has advanced the status and position of the state and its citizens; and

WHEREAS Land-Grant colleges and universities in every state have now joined together to celebrate the Centennial of the signing into law of the Land-Grant Act by President Lincoln;

BE IT NOW RESOLVED by the House of Representatives of the State of Minnesota, the Senate concurring, that this Centennial be observed and commemorated and that recognition be given by the people of the state to the Land-Grant Act as a cornerstone of public American higher education.

## *Candidates for Commissions*

Subject to the completion of all curriculum requirements at the close of the second term of the Summer Session, commissions will be presented as indicated on those listed below and upon such others as may meet the requirements for Reserve Officers in the Armed Services.

### **DEPARTMENT OF MILITARY SCIENCE**

#### **Second Lieutenant, Artillery**

David H. Porter, Minneapolis

### **DEPARTMENT OF NAVAL SCIENCE**

#### **Ensign, SC, USN**

Kenneth W. R. Mielke, Hutchinson

#### **Second Lieutenant, USMC**

Eugene P. Kummeth, Owatonna

#### **Second Lieutenant, USMCR**

Bernard R. Smith, Pine Meadow, Conn.

# *Candidates for Graduation*

Subject to the completion of all curriculum requirements at the close of the second term of the Summer Session, degrees will be conferred as indicated on those listed below and upon such others as may meet the graduation requirements.

## GENERAL COLLEGE

### Associate in Arts

Thomas Evan Ahlstrom, Maple Plain  
Ruby Boyd, Minneapolis  
Patricia Lola Doolittle, Winnebago  
David George Ewert, Rochester  
Sharon Therese Hogseth, St. Paul  
Robin William Keeley, London,  
Ontario, Canada  
Peter White Knickerbocker, Minneapolis

Beverly Ann Parker Moen, St. Paul  
David Arthur Nordquist, Minneapolis  
Ronald William Pavlock, Minneapolis  
Donald Herbert Pelkey, Minneapolis  
Raymond David Slogar, Ely  
James Allen Westby, Minneapolis

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

James Montgomery Fisher, Jr.,  
Phoenix, Ariz.  
Virginia Leduc Lenmark, Minneapolis

Kenneth Norman Sigsworth,  
St. Paul

### Bachelor of Arts

Richard Martin Aalberg, Alexandria  
Randall William Ackley, Minneapolis,  
MAGNA CUM LAUDE  
Rex Randall Albert, Ekalaka, Mont.  
Frank Thomas Allen, Royalton, CUM  
LAUDE  
Roger Charles Betz, St. Paul  
Marco G. Bicchieri, Singida, Tan-  
ganyika  
John David Billstrom, Anoka  
Hjalmar Kristjan Bjornson, Minne-  
apolis  
Harald Jay Bly, Palmdale, Calif.  
Carol Ann Borchard, New Richland

Deborah J. Lott Brown, Minneapolis,  
MAGNA CUM LAUDE  
Daniel Fitch Bryan, West St. Paul  
Richard John Burg, Minneapolis  
Deanna Mae Carlson, Minneapolis  
Loren William Crabtree, Ellendale,  
N.D., SUMMA CUM LAUDE  
Edwin Lane Crosby, Minneapolis  
Thomas Edward Devine, Sioux Falls,  
S.D.  
Edward McNallan Dolan, A.A.,  
Worthington, CUM LAUDE  
Gerald Frank Ebensteiner, St. Cloud  
Hashem Fatemi, Isfahan, Iran

Jacklyn Martha Flett, Cloquet  
Leslie Edwin Formell, Frederic, Wis.  
Beverly Elizabeth Fox, Minneapolis  
Richard Joseph Gahr, St. Paul  
Harry Whiting Genet, Yucaipa, Calif.  
Nancy Anne Goodwin, Hopkins,

MAGNA CUM LAUDE

Adrienne Leone Gray, Rochester  
Harriet Mae Gray, Elk River  
Barbara Mae B. Greer, St. Paul,

CUM LAUDE

Judith A. Peters Grimes, Minneapolis  
Morris Clarence Grove, McIntosh  
Dale T. Hagfors, A.L.A., Minne-  
apolis

Michael Edward Helin, Hopkins  
Margaret Ann Hoolihan, Grand  
Rapids

Eva Adrienne Hradetzky, Budapest,  
Hungary, CUM LAUDE

Elroy Leon Hume, Crookston, CUM  
LAUDE

Clark Franklin Isaacs, St. Paul  
Karen Elizabeth Joelson, Richfield  
John Plank Junkin, St. Paul  
Patricia Janette Kaston, Minneapolis  
Stella Anastasia Katifori, Athens,  
Greece

Patricia Sheldon Kelly, St. Paul  
Guy Romney Kerridge, Rochester,  
N.Y.

Helen Elizabeth King, Minneapolis  
Evelyn Ann Kinney, St. Paul, CUM  
LAUDE

Mervin Ross Klatte, Hamel  
Tyrone Peter Knoff, Glenwood  
Judith Dianne Kraft, A.L.A., Minne-  
apolis

Eugene Paul Kummeth, Owatonna  
Rolf Eric Lagerquist, San Gabriel,  
Calif.

David Kent Lawrence, Milwaukee,  
Wis.

Richard E. Leonard, St. Paul  
Richard Anthony Loesch, Hastings  
Barbara A. Moeglein Maloney,  
Minneapolis, CUM LAUDE

Nancy Rivia Margolis, St. Paul,  
MAGNA CUM LAUDE

Mary McCaull, Minneapolis  
Carol Ann McColm, Farmington,  
N.M.

Jehuda Herbert Menczel, Haifa,  
Israel

Pauline Emily Morton, Glenwood  
Aaron Louis Nathenson, Minneapolis  
Clara H. Barcs Nelson, Budapest,

Hungary

Jerry Baine Norman, Eveleth  
Boniface Thewunwa Obichere, Awaka  
Owerri, Nigeria, CUM LAUDE

Jeanne Adell Melin Ojala, Cloquet,  
CUM LAUDE

Gordon John Olson, Minneapolis  
John Henry Peacock, A.A., Minne-  
apolis

George Theodore Perkins, Wayzata  
Richard Leon Pinomaki, Minneapolis  
David Marlowe Pokela, Minneapolis

Shirley Ann Popma, Pipestone  
Jack Anton Postlewaite, St. Paul

Penelope Gail Purtzer, New Ulm  
Margaret Suzanne Reid, Mound  
Mary Nelson Reis, St. Paul

Gerald Roger Paul Ringhofer, Owa-  
tonna

Martin Leslie Rosenbluth, A.A.,  
Minneapolis

Jenner Carson Roth, St. Paul  
Thomas Ruplin, Minneapolis

Dale Anderson Schroeder, Caledonia  
Judith Naomi Scott, Minneapolis,  
CUM LAUDE

Jean Marie Seguin, Minneapolis  
Bernard Ruel Smith, Pine Meadow,  
Conn.

Janet Marcia Stark, Mound  
Robert Owen Stuebing, Minneapolis  
Mary Kirsten Towley, Hopkins, CUM  
LAUDE

Loanne Claire Udell, Minneapolis  
Marjorie Jean A. White, Minneapolis  
Janet Marion Huemuller Wischmann,  
Pipestone

Stephen Paust Yerxa, Minneapolis

## UNIVERSITY COLLEGE

### Bachelor of Arts

Shari Landers Howe, G.D.H., Fulda

## INSTITUTE OF TECHNOLOGY

### Bachelor of Science

*Gene Willard Hemp, Minneapolis,*  
WITH DISTINCTION

Roy Frederick Holm, Jr., St. Paul

### Bachelor of Aeronautical Engineering

*David Richard Carlson, Minneapolis,*  
WITH DISTINCTION

Arnold William Lubrecht, Minne-  
apolis

### Bachelor of Agricultural Engineering

Gene Ellsworth Mickelson, Minne-  
apolis

James Rodney Sutherland, Hallock

### Bachelor of Chemical Engineering

Kenneth George Fehring, St. Paul

Morris Rudolf Johnson, Mora

### Bachelor of Civil Engineering

Lawrence Lester Longsdorf, Red  
Wing  
Bernhold Rankenburg, Millville

Edward Stengel, Minneapolis  
Arthur Werthaus, Krakaw, Poland

### Bachelor of Electrical Engineering

Richard Charles Day, Minneapolis  
Ronald Richard Johnson, Minneapolis  
Donald James Parrish, Minneapolis

Frank Richard Walmsley, Minne-  
apolis

### Bachelor of Mechanical Engineering

James Robert Boler, Rochester  
Jack Albert Carr, Austin  
Keith John Grierson, Iron  
Daniel Reim Johnson, Albert Lea

Donald John Pederson, Hastings  
Joseph Albert Weimerskirch, Bel-  
grade

## **Bachelor of Metallurgy**

James LeRoy Bidler, Hibbing

## **Bachelor of Physics**

Theodore John Pepin, St. Paul

## **COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE**

### **Bachelor of Science**

Marilyn J. Easbey, St. Paul, Home  
Economics  
Suzanne Williams Franklin, Austin,  
Home Economics  
Shirley Ann Hanson, St. Paul, Home  
Economics

Rodney Marlin Lindell, Rush City,  
Agriculture  
Victor George Olson, Park Rapids,  
Forestry  
William Knute Waggoner, Shell  
Lake, Wis., Forestry

## **COLLEGE OF EDUCATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE**

### **Bachelor of Science**

Paul Joseph Callanan, Comfrey,\*  
Agricultural Education

*Juanita Fay Hanson, Anoka, Home  
Economics Education, WITH DIS-  
TINCTION*

## **SCHOOL OF BUSINESS ADMINISTRATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE**

### **Bachelor of Agricultural Business Administration**

Peter Joseph Lindberg, St. Louis Park

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\* Degree conferred as of August 18, 1960.

# COLLEGE OF EDUCATION

## Bachelor of Science

- Mary Augusta Alden, Minnetonka Beach  
Annette Monnie Holmquist Anderson, Minneapolis  
Merodie Alice Anderson, Winnebago  
Clara Blomquist Asp, B.A., Milaca  
Bessie Matthews Ball, Bemidji\*\*  
Melville John Bauman, Jr., A.A., St. Paul  
Laurence Sheldon Benjamin, Highland Park, Ill.  
Michele Katz Bix, Minneapolis  
Bernice Karna Blandin, Minneapolis  
John David Bowman, St. Paul  
Yvonne Kathleen Ryberg Burkhalter, Mitchell, S.D.\*\*  
Agnes Sandvig Byhre, Minneapolis  
Karen Barbara Hyllengren Carlson, Anoka, WITH DISTINCTION  
Judy Ann Carpenter, Minneapolis, WITH DISTINCTION  
Lois Castree McDonnell Dern, A.L.A., Minneapolis  
Joseph Ralph Ferraro, St. Paul  
Ruth Ann Fingerson, Minneapolis  
Ardyce Lillian Gustafson, North St. Paul  
Robert Graham Halvorson, Willmar  
John Kingland Hinsverk, Hendricks, WITH DISTINCTION  
Duane Leroy Hoecherl, Minneapolis  
Austre Mikkelsen Johansson, Minneapolis  
Janet Edna Johnson, St. Paul  
Marion Lucy Wardell Jorgenson, Minneapolis  
Jane Bresler Katz, St. Paul, WITH HIGH DISTINCTION  
Thomas Raymond Kleppe, Minneapolis  
A. Ernestine Williams Krehbiel, Wichita, Kan., WITH DISTINCTION  
Robert Lewis Laing, Minneapolis  
Helen Thomsen Manley, Forest Lake  
Claire Jean Marchand, New Brighton  
Jon Verner Marschke, St. Paul  
Ronald Rudolf Max, Morris  
Glenda B. Moseman, Minneapolis  
Doris Anderson Nasby, B.A., Sioux Falls, S.D.  
Barbara Louise Kaiser Nelson, Bagley  
Betty Ione Nelson, Fountain  
Edith Squire Newman, North Olmsted, Ohio  
William Earl Norlund, Anoka  
Walter Marlowe Olson, Barrett  
William Ellsworth Oyler, Jr., B.A., St. Paul  
Eugene Richard Palm, Minneapolis  
Monica Bridgeford Peterson, LaCrosse, Wis.  
Sylvia Ruth Peterson, Long Lake  
Harriet Unetta Anderson Pope, Minneapolis  
Janice Judith Reeder, Minneapolis  
Carla Maxine Kern Rekstad, B.A., St. Paul  
June Olava Rosten, Minneapolis  
Margaret Isabel Schow, B.S.Ec., Minneapolis  
Earl Sidney Schrader, Minneapolis  
Elaine Frances Schwimmer, Minneapolis  
Winifred Joanna Scott, B.A., Fairmont  
Joyce M. Smith Seaberg, St. Paul  
Barbara Jane Skudlark Shin, St. Paul  
Carol Renee Skarda, St. Paul  
Joanne Sahlstrom Stewart, New Brighton, WITH DISTINCTION  
Ellen Jane Stowell, Tulsa, Okla., WITH DISTINCTION\*\*  
Jane Stowell, White Bear Lake  
Eva B. Swanson, Minneapolis, WITH DISTINCTION

\*\* Nursing Education Curriculum.

Kathleen McGovern Townsend, Minneapolis  
Helene Gugisberg Turula, St. Paul,  
WITH DISTINCTION  
Theona Sunde von Lorenz, Minneapolis

Robert Lee Wischmann, Pipestone  
Carole Evelyn Wood, St. Paul, WITH  
DISTINCTION  
Marlene Louise Worth, Robbinsdale

## Master of Education

Lester Albert Becklund, B.S., St. Paul  
Joanne Barbara Butler, B.S., Winston-Salem, N.C.  
Rufus Dudley Champion, Jr., B.S., Fresno, Calif.  
Bonnie Jean Christoffersen, B.S., Ogema, Wis.  
Ellen Catherine Egan, B.S.N., Henning  
Eugene M. Farrell, B.A., Richfield  
Gwendolyn Rose Good, B.S.N., Faribault  
Lorraine Annabelle Hanson, B.A., Sioux Falls, S.D.  
David Carlton Johnson, B.A., Rochester  
Delores Marlene Johnson, B.S., Osage, Iowa  
Noel Vernon Kohles, B.A., Oakland, Calif.  
Billy Eldon Mason, B.S., St. Joseph, Mo.

William Cornell McCollum, B.S., Inkster, Mich.  
Dorothy Evanson Mrkonich, B.S.N., Echo  
Charles Frederick Prunty, B.S., Owatonna  
LaVonne Kleven Russell, B.S.N., Grand Forks, N.D.  
David Michael Schmit, B.S., St. Cloud  
Maureen Claire Sherwin, B.S.N., Chicago, Ill.  
Patricia Bracher Soderberg, B.S.N., St. Louis Park  
William Thomas Wasnick, B.S., Montevideo  
Gordon Harvey Webb, B.S., Richfield  
Eugene Wermer, B.S., East Meadow, N.Y.  
Gladys Marie Whitley, B.S., Palmer, Neb.

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Vernon Leonard Anderson, Minneapolis  
Lowell Wayne Bliss, St. Paul  
Donald John Bunn, Pine Island  
Micheal Valentine Deisz, Minneapolis

Bruce Micheal Dvorak, New Prague  
John Oscar Janke, Detroit Lakes  
David Arthur Nelson, St. Paul  
David Joel Pfeffer, Bertha  
Richard Donald Quigley, Minneapolis

### Bachelor of Science in Business

Dennis Lee Chappell, Willmar  
George Erskine Coffee, Minneapolis  
Robert Charles Fawcett, Minneapolis  
Stephen Merrill Goldfarb, Minneapolis

Paul Arlen Gorgos, Minneapolis  
Lloyd William Grobel, Minneapolis  
Ronald Jerald Holstrom, Minneapolis  
Leland Kenneth Johnson, A.A., Minneapolis

Dean Kenneth Knutson, Jr., Minneapolis  
Robert Benjamin Kosse, Minneapolis  
Ronald Frederick La Pointe, St. Paul  
James Frederick Luecke, Gaylord  
Julian Fremont Lunde, Hayward  
Kenneth Warner Robert Mielke,  
Hutchinson  
David Henry Porter, Minneapolis

Douglas Shedd Richardson, A.A.,  
Minneapolis  
Richard Olaf Ronningen, Pine Island  
John Francis Stepanek, Hopkins  
Edward Joseph Sullivan, B.A., Minneapolis  
Richard Henry Ubl, St. Paul  
Peter Henry Voth, Red Wing  
Richard Robert Zerban, Hopkins

## Bachelor of Science in Economics

Richard James Holmberg, Minneapolis    Thomas Edward Twiss, Lakeville

## LAW SCHOOL

### Bachelor of Science in Law

Michael Allyn Olson, South St. Paul

### Bachelor of Laws

*Josephine D. Greene, B.A., Minneapolis, CUM LAUDE*  
Gary John Hjort, B.B.A., Colfax, Wis.

*Michael Allyn Olson, South St. Paul, CUM LAUDE*  
Stewart Ronald Perry, B.S., St. Paul

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science in Nursing\*

Patricia Ann Johnson Dierks, A.L.A.,  
Minneapolis  
Carolyn Byrnece Erickson, Rochester,  
WITH HIGH DISTINCTION  
Margaret Jean Fickes, Cambridge  
Rosalie Ann Grosenick, Browns Valley  
Barbara Richardson Hiller, Minneapolis

Judith Eileen Johnson, A.L.A., St. Paul  
Barbara Christine La Salle, Minnetonka Mills  
*Penelope Edwards Lawler, Minneapolis, WITH HIGH DISTINCTION*  
*Sylvia Willetts Strigley, Galesburg, Ill., WITH DISTINCTION*  
Elsa Anchen Zinter, Minneapolis

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\* These degrees are conferred subject to the satisfactory completion of nursing practice prior to December 14, 1961.

## Bachelor of Science in Nursing Administration

Robert James Johnson, Sleepy Eye,  
WITH DISTINCTION

Margaret Anne Mondloch, St. Cloud,  
WITH DISTINCTION

Jeanne Ellen Ott, R.N., Minneapolis,  
WITH DISTINCTION

## Bachelor of Science

Julia Beryl Brown, R.N., St. Simons  
Island, Ga., Public Health Nursing

Carolyn E. Friske, Rockford, Mich.,  
Public Health Nursing

Marie Estelle Heim, Forest Lake,  
Public Health Nursing

Edith V. Anderson Nagel, Minne-  
apolis, Public Health Nursing

Janice Marie Peterson, Minneapolis,  
Public Health Nursing

Carol Eileen Pues, A.A., Spring Val-  
ley, Calif., Public Health Nursing,

WITH DISTINCTION

Litta Elizabeth Winkler, Metamora,  
Ill., Public Health Nursing, WITH

DISTINCTION

Katherine Lillian Wright, Minne-  
apolis, Public Health Nursing

## Master of Nursing Administration

Virginia Lenore Anderson, B.S., St.  
Paul

Lorraine Doris Botts, B.S., Minne-  
apolis

Alyce Elizabeth Bowes, B.S.,  
De Smet, S.D.

Geraldine Ruth Glasenapp, B.S.N.,  
Milwaukee, Wis.

Jane Marie Griffin, B.S., Bridgeport,  
Conn.

Sung Hak Lee, B.S., Seoul, Korea

Marlys E. Wall Lilleskov, B.S.N.,  
Minneapolis

Daisy Gisela Motriuk, B.S., Saska-  
toon, Saskatchewan, Canada

Anita Rae Namock, B.S.N., Minne-  
apolis

Dorothy Alice Naugle, B.S., Devils  
Lake, N.D.

Genevieve Mary Nieman, B.S., Min-  
neapolis

Ann Lickteig Richter, B.S., East  
Grand Forks

Marcella Steinkrauss, B.S., Milwau-  
kee, Wis.

Anna Louise Teisberg, B.A., Ashby

Helen Wells, B.S.N., Waltonville,  
Ill.

## Master of Public Health

Rita Caroline Ann Kroska, B.S., M.S., Faribault

## Doctor of Medicine

Carsten Herman Seccamp, Jr., B.A., Minneapolis

# GRADUATE SCHOOL

## Master of Arts

Glen Ward Albrechtsen, Savage

B.A. '57, West Michigan University; B.S. '60, University of Minnesota. Field of Concentration: Educational Psychology.

Ludmila Alexeev, Minneapolis

Graduate '43, German Higher Technical School. Field of Concentration: Library Science.

Ronald Clement Althouse, St. Paul

B.A. '60, Pennsylvania State University. Major: Sociology. Minor: History. Thesis: Dimensions of Social Prominence: A Comparative Study of Three Formal Publications of Modern Prominence.

Erma Louise Anderson, Cohasset

B.A. '36, Gustavus Adolphus College. Field of Concentration: Curriculum and Instruction.

Harold Roland Anderson, Worthington

B.S. '51, Wisconsin State College (Superior). Field of Concentration: Educational Psychology.

John Robert Anderson, Ferndale, Mich.

B.S. '53, University of Minnesota. Field of Concentration: Educational Psychology.

Paul Stanley Anderson, Minneapolis

B.A. '57, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: Enrollment Rates in the College of Agriculture—A Study in the Sociology of Careers.

Richard D. Ashmun, Brainerd

B.A. '50, Carleton College; B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Harlan Alexander Bang, Albert Lea

B.A. '56, Luther College. Field of Concentration: Educational Administration.

Nicholas Presley Barker, St. Louis, Mo.

B.A. *summa cum laude* '59, Princeton University. Field of Concentration: English.

Ronald Crosby Barrett, Minneapolis

B.A. *cum laude* '56, Hamline University. Field of Concentration: Educational Psychology.

Darrell Delbert Beaty, Albert Lea

B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Wayne Roger Bengtson, La Mesa, Calif.

B.S. '56, University of Minnesota. Field of Concentration: Educational Psychology.

Arland Neles Benson, Isanti

B.S. '60, University of Minnesota. Field of Concentration: Educational Psychology.

Floyd Lawrence Bergman, Duluth

B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

George Richard Borich, Chicago, Ill.

B.Mus.Ed. '53, VanderCook College of Music. Field of Concentration: Education.

Diane Adele Bouchard, Minneapolis

B.A. *magna cum laude* '59, University of Minnesota. Field of Concentration: English.

William Eugene Bowman, Chetek, Wis.

B.S. '48, Lawrence College. Field of Concentration: Educational Administration.

LeRoy L. Bradwisch, White Lake, S.D.

B.A. '58, Dakota Wesleyan University. Field of Concentration: Industrial Relations.

Robert Verne Bresnahan, Chester, Mont.

B.A. '57, St. John's University (Minn.). Field of Concentration: Curriculum and Instruction.

Donald George Bujnowski, Norwich, Conn.

B.S. '60, State University of New York. Field of Concentration: Art Education.

Edward Benjamin Byhre, Minneapolis

B.A. '43, Augustana College (S.D.). Field of Concentration: Educational Administration.

**Exaltacion Malvar Castillo, Batangas, Philippines**

B.A. *magna cum laude* '57, The Philippine Women's University. Field of Concentration: Psychology.

**Arturo Colon-Romero, Rio Piedras, Puerto Rico**

B.A. *magna cum laude* '56, University of Puerto Rico. Field of Concentration: Psychology.

**Joel George Critzer, Cloquet**

B.S. '55, University of Minnesota. Field of Concentration: Education.

**Clara Mae Dahle, Minneapolis**

B.S. '56, University of Minnesota. Field of Concentration: Curriculum and Instruction.

**Jo Marlys Dahlen, Branson, Mo.**

B.S.E. '57, Arkansas State Teachers College. Field of Concentration: Curriculum and Instruction.

**John Turner Daniel, London, England**

B.A. '58, Cambridge University. Field of Concentration: English.

**Sarbeswar Das, Puri, Orissa, India**

B.A. (Hons.) '44, Utkal University; M.A. '46, Allahabad University. Field of Concentration: English.

**Richard William Kyle Dawson, Lower Hutt, New Zealand**

B.S. with high distinction '60, University of Minnesota. Major: Educational Psychology. Minor: History and Philosophy of Education. Thesis: Analysis of Teacher Influence in Mathematics.

**Helen Rawlings Decker, Miles City, Mont.**

B.S. in Ed. '58, Eastern Montana College of Education. Field of Concentration: Curriculum and Instruction.

**John Robert Dennis, Minneapolis**

B.A. '48, Luther College. Field of Concentration: Music.

**James Roger Dimick, Cumberland, Wis.**

B.S. '52, St. Cloud State College. Field of Concentration: Physical Education.

**Arthur Joseph Downey, Minneapolis**

B.S. with distinction '54, University of Minnesota. Field of Concentration: Physical Education.

**Kenneth Charles Edson, Boise, Idaho**

B.A. *cum laude* '57, Chico State College. Field of Concentration: Educational Psychology.

**James Dunbar Flannery, Austin**

B.S. '56, University of Minnesota. Field of Concentration: Curriculum and Instruction.

**Bruce Fleming, Saskatoon, Saskatchewan, Canada**

B.A. with great distinction '41, B.Ed. with great distinction '48, University of Saskatchewan. Field of Concentration: Curriculum and Instruction.

**Nerissa Dato Forbes, Bataan, Philippines**

B.S.E.E. *magna cum laude* '58, Philippine Normal College. Field of Concentration: Curriculum and Instruction.

**Burle Alden Force, Benson**

B.A. '50, Hamline University. Field of Concentration: Physical Education.

**William Floyd Foster, Afton**

B.A. '47, Cornell College; S.T.B. '50, Boston University. Major: Sociology. Minor: Philosophy. Thesis: A Descriptive Analysis of Parish Participation and Facilities Among the Methodist Churches of Minnesota.

**Richard LeRoy Franklin, Minneapolis**

B.A. *magna cum laude* '55, University of Minnesota. Field of Concentration: Spanish.

**Kenneth Edward Garland, Mahanomen**

B.S. '54, B.A. '54, Moorhead State College. Field of Concentration: Educational Administration.

**Silvano Benito Garofalo, St. Paul**

B.A. '57, University of Minnesota. Field of Concentration: Spanish.

**Joseph Goldstein, Haifa, Israel**

B.A. '58, Hebrew University. Field of Concentration: Curriculum and Instruction.

**Margaret Jane Green, Norman, Okla.**

B.A. '59, University of Oklahoma. Field of Concentration: Political Science.

- Virginia Johnson Grundsted, Minneapolis  
B.S. '50, The Stout Institute. Field of Concentration: Educational Psychology.
- Ralston Gaylord Gunvaldson, Starbuck  
B.S. '50, University of Minnesota. Field of Concentration: Industrial Education.
- Marta Safar Gurtoff, New York, N.Y.  
B.A. '59, Queens College (N.Y.). Field of Concentration: English.
- Walter Hard, Grand Marais  
B.S. '52, Wisconsin State College (Superior). Field of Concentration: Educational Administration.
- Owen David Heiberg, Willmar  
B.A. '59, Carleton College. Field of Concentration: English.
- Richard Allen Hermes, Austin  
B.S. '54, Moorhead State College. Field of Concentration: Educational Administration.
- Donna Sharon Hohn, Mora  
B.S. with distinction '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Earl Parker Holdridge, Tyler  
B.S. '55, Macalester College. Field of Concentration: Educational Psychology.
- Willard Benjamin Holo, Arnegard, N.D.  
B.S. '51, Minot State Teachers College. Field of Concentration: Curriculum and Instruction.
- Lois Jean Hood, Kabul, Afghanistan  
B.A. '59, Swarthmore College. Field of Concentration: English.
- Joseph Warren Hutton, Jr., Minneapolis  
B.A. '50, Hamline University. Field of Concentration: Educational Administration.
- Earl Robert Ireland, Roseville  
B.S. '56, Hamline University. Field of Concentration: Educational Administration.
- Rhoda Nicholson Issa, Minneapolis  
B.A. *magna cum laude* '52, University of Minnesota. Major: International Relations. Thesis: Inter-Arab Patterns of Trade, 1956-1959.
- Rhoda Greene Jacobs, Minneapolis  
B.A. '49, University of Minnesota. Field of Concentration: Journalism.
- Donald H. Jacobson, Granite Falls  
B.S. '53, Gustavus Adolphus College. Field of Concentration: Educational Administration.
- Daryl Duane Johnson, Two Harbors  
B.A. '50, Concordia College (Moorhead). Field of Concentration: Music Education.
- Donald Eugene Jostad, Superior, Wis.  
B.S. '57, Wisconsin State College (Superior). Field of Concentration: Curriculum and Instruction.
- Lloyd Harold Joyal, Jr., Eau Claire, Wis.  
B.S. '54, Wisconsin State College (Eau Claire). Field of Concentration: Educational Administration.
- Frederic Karl Kaiser, St. Paul  
B.S. '55, University of Minnesota. Field of Concentration: Physical Education.
- Astrid Karstad, Stryn, Norway  
B.A. *magna cum laude* '60, Mississippi State College for Women. Field of Concentration: French.
- Nels Elmer Kempainen, Robbinsdale  
B.A. '48, Hamline University. Field of Concentration: Educational Administration.
- Robert Thomas Kennedy, North St. Paul  
B.S. '52, St. Cloud State College. Field of Concentration: Curriculum and Instruction.
- Raymond James King, St. Paul  
B.S. '40, Mankato State College. Field of Concentration: Industrial Education.
- William B. Koenen, St. Paul  
B.A. '50, Macalester College. Major: Mathematics. Minor: Statistics. Thesis: A Survey of Transform Methods.
- Arthur Michael Kremer, Robbinsdale  
B.A. '50, St. John's University (Minn.). Field of Concentration: Classics.
- Sara Jo Kroll, Minneapolis  
B.A. *cum laude* '59, University of Minnesota. Field of Concentration: Political Science.

Charles Edwin Ledbetter, Houston,  
Tex.

B.A. *cum laude* '57, University of Houston.  
Major: Speech. Minors: English and Philosophy. Thesis: George Orwell's *Animal Farm* and 1984: A Study of Persuasive Methods in the Novel.

J. C. Levendowski, Hayward, Calif.

B.A. '57, B.S. '58, University of Minnesota.  
Field of Concentration: Curriculum and Instruction.

Linnea Diane Lilja, Hopkins

B.S. with distinction '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Leon Charles Linden, St. Paul

B.S. with distinction '49, University of Minnesota. Field of Concentration: Industrial Education.

Arthur Charles Lindgren, Albert Lea

B.S. '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Amy Chu-Ching Ling, Taiwan,  
China

B.A. '56, National Taiwan University. Field of Concentration: English.

Gregory Charles Lucas, St. Paul Park

B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Ruth Evelyn Groves Ludeman, Win-  
dom

B.A. '59, Colorado State College of Education. Field of Concentration: Curriculum and Instruction.

Martin Joseph Lynch, St. Paul Park

B.A. '50, College of St. Thomas. Field of Concentration: Educational Administration.

Edward Charles Martin, Bloomington

B.A. '51, Drake University. Field of Concentration: Educational Psychology.

Elizabeth Ann Martin, Waverly, Iowa

B.A. '56, Wartburg College. Field of Concentration: Library Science.

Lester Mattison, Minneapolis

B.A. *cum laude* '57, University of Minnesota. Major: Library Science. Minor: Political Science. Thesis: A Comparison of Shelving Costs for a Library Storehouse.

Robert William McCardle, Spring  
Valley, Wis.

B.S. '49, Wisconsin State College (River Falls). Field of Concentration: Educational Administration.

William Bruce McDougall, St. Croix  
Falls, Wis.

B.S. '55, Wisconsin State College (River Falls). Field of Concentration: Educational Administration.

Florencia Santiago Medina, Pasay  
City, Philippines

B.S.E. with honors '54, Lopez Jaena Memorial College; M.P.A. '60, University of the Philippines. Field of Concentration: Political Science.

Boyd Charles Meyer, Mound

B.A. *cum laude* '50, Gustavus Adolphus College. Field of Concentration: Educational Administration.

Joseph Bartel Michel, Monrovia,  
Calif.

B.A. '56, Northwest Nazarene College. Field of Concentration: Curriculum and Instruction.

Anne C. Michelich, Keewatin

B.S. '36, College of St. Teresa. Field of Concentration: Curriculum and Instruction.

David Merlin Miller, Elysian

B.S. '58, University of Minnesota. Field of Concentration: English.

Marvin Judson Miller, Newport

B.S. '50, Wisconsin State College (LaCrosse). Field of Concentration: Curriculum and Instruction.

Julia Maria Morrison, Chaska

B.A. '57, M.F.A. '60, State University of Iowa. Major: Library Science. Minor: English. Thesis: *Literary Journals in Minnesota: November 1850–April 1961.*

Mildred Evelyn Mortenson, Chero-  
kee, Iowa

B.A. '38, Iowa State Teachers College. Field of Concentration: Curriculum and Instruction.

Alvin Benjamin Ness, Duluth

B.A. '33, St. Olaf College. Field of Concentration: Curriculum and Instruction.

- Ruth Elaine Neumann, Minneapolis  
B.S. '51, University of Minnesota. Field of Concentration: Educational Psychology.
- Meryl Willis Nichols, Winona  
B.M. '51, St. Olaf College. Field of Concentration: Music Education.
- Roger Lowell Nichols, Crystal  
B.S. '49, Wheaton College (Ill.). Field of Concentration: Curriculum and Instruction.
- Ruth I. Nielsen, Minneapolis  
B.A. '50, State University of Iowa. Field of Concentration: Curriculum and Instruction.
- Barry Keith Noack, Golden Valley  
B.S. '57, Mankato State College. Field of Concentration: Educational Administration.
- Maryanne Chadwick Norton, Minneapolis  
B.S. with distinction '56, University of Minnesota. Field of Concentration: Library Science.
- Janice Mary Nowack, Cleveland, Ohio  
B.S. '55, Bowling Green University. Field of Concentration: Curriculum and Instruction.
- Paul Carlot Oas, San Clemente, Calif.  
B.A. '52, Concordia College (Moorhead); B.Th. '56, Luther Theological Seminary. Field of Concentration: Educational Psychology.
- Dillon James O'Brien, Marble  
B.S. '41, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- George Marti Olsen, Minneapolis  
B.A. '47, B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Ellen Evelyn Adele Olson, Welch  
B.S. '56, Winona State College. Field of Concentration: Educational Administration.
- Travis Bruce Olson, Gary  
B.S. '50, Bemidji State College. Field of Concentration: Psychology.
- Harold Jerome Opgrand, St. Cloud  
B.S. '56, Mayville State College. Field of Concentration: Library Science.
- Misbah Ibrahim Oreibi, Benghasi, Libya  
B.Com. '58, University of Cairo. Field of Concentration: Economics.
- Catherine Virginia Perry, Minneapolis  
B.A. *magna cum laude* '59, University of Minnesota. Field of Concentration: English.
- Grant Emanuel Peterson, Adams  
B.A. '51, Gustavus Adolphus College. Field of Concentration: Educational Administration.
- Lewis E. Peterson, Forest City, Iowa  
B.S. '50, Gustavus Adolphus College. Field of Concentration: Curriculum and Instruction.
- Richard Lee Peterson, Ortonville  
B.S. '59, Hamline University. Field of Concentration: Educational Administration.
- Edward A. Pond, Bloomington  
B.A. *cum laude* '58, Northwestern College. Field of Concentration: History.
- Mildred Jean Potocnik, Gilbert  
B.S. with distinction '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Richard Harold Prindle, Faribault  
B.A. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Norma Ualaf Ramirez, Cavite, Philippines  
B.S.E.E. *cum laude* '57, Philippine Normal College. Field of Concentration: Curriculum and Instruction.
- Robert Alfred Redig, Lancaster, Wis.  
B.A. '53, St. Mary's College (Minn.). Field of Concentration: Curriculum and Instruction.
- Joseph MacLyn Redmond, Plentywood, Mont.  
B.A. '53, Concordia College (Moorhead). Field of Concentration: Educational Psychology.
- Alfred Larson Roe, Montevideo  
B.A. *magna cum laude* '57, St. Olaf College. Field of Concentration: History.
- Roger Alan Rosandich, Aurora  
B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Albertina Rosen, Tampa, Fla.

B.S.Ed. '57, Concordia Teachers College. Field of Concentration: Curriculum and Instruction.

Hartwick O. Roslien, Kensett, Iowa

B.A. '32, St. Olaf College. Field of Concentration: Educational Administration.

Ferdinand Alexander Ruplin, Minneapolis

B.A. '56, University of Minnesota. Field of Concentration: German.

Lisbeth Saloschin, Minneapolis

B.A. *cum laude* '59, University of Minnesota. Field of Concentration: German.

Michael John Santoro, Bloomington

B.S. *cum laude* '58, University of Minnesota. Field of Concentration: Educational Administration.

John Arthur Sawyer, Minneapolis

B.A. '59, University of Minnesota. Major: German (German Literature). Minor: German (German Philology). Thesis: The Relationship between Love and Death in the Novellen of Theodor Storm.

Warren August Schaller, Jr., West Orange, N.J.

B.A. *cum laude* '59, Kenyon College. Field of Concentration: English.

Carlyle Perry Schenk, Sauk Rapids

B.S. with distinction '49, University of Minnesota. Field of Concentration: Agricultural Education.

Mabel Esther Schleif, Buffalo

B.S. with distinction '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Charles Michael Schomer, Lastrup

B.S. *cum laude* '55, St. Cloud State College. Field of Concentration: English.

Walter LeRoy Scott, St. Paul

B.S. with distinction '52, University of Minnesota. Field of Concentration: Educational Administration.

Duane C. Scribner, Worthington

B.S. '53, Moorhead State College. Field of Concentration: Education.

Beatrice Pearl Sear, Madison, S.D.

B.S. '52, General Beadle State Teachers College. Field of Concentration: Curriculum and Instruction.

Robert William Seikkula, Cloquet

B.S. *cum laude* '55, University of Minnesota. Field of Concentration: Education.

Frank Dominic Serratore, Deer River

B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Ivan Merrill Shobe, Chisago City

B.S. with distinction '60, University of Minnesota. Field of Concentration: Music Education.

Sister Mary Carol Braun, Duluth

B.A. '46, College of St. Scholastica. Field of Concentration: Curriculum and Instruction.

Sister Mary Paul DeMouly, St. Paul

B.A. '55, St. Catherine's College. Field of Concentration: Curriculum and Instruction.

Charles Allen Sloan, Rochester

B.S. '56, Moorhead State College. Field of Concentration: Curriculum and Instruction.

John Barnes Smith, Brandon, Vermont

B.A. '56, Hamilton College. Field of Concentration: American Studies.

Robert Jason Solem, St. Paul

B.A. *magna cum laude* '57, Augustana College (S.D.). Field of Concentration: Music.

Patricia Ann Spencer, Minneapolis

B.A. *cum laude* '59, University of Minnesota. Field of Concentration: Psychology.

Ray Gene Spindler, Bemidji

B.S. '55, Bemidji State College. Field of Concentration: Curriculum and Instruction.

Richard Lester Stanton, St. Paul

B.A. '51, Macalester College. Field of Concentration: Educational Administration.

Donna Elaine Steffenson, Robbinsdale

B.A. *cum laude* '51, Gustavus Adolphus College. Field of Concentration: Curriculum and Instruction.

Kenneth William Stolhammer,  
Waseca

B.S. '52, University of Minnesota. Field of  
Concentration: Educational Psychology.

Calmer Tilbert Strand, Bloomington

B.S. '52, Winona State College. Field of Con-  
centration: Industrial Education.

Robert Allan Stuart, Hettinger, N.D.

B.S. '54, Mayville State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Arlen Dennis Syverson, Starbuck

B.A. '54, Concordia College (Moorhead).  
Field of Concentration: Educational Adminis-  
tration.

Angelo Temple, Crosby

B.S. '56, St. Cloud State College. Field of  
Concentration: Educational Administration.

Gordon Wesley Thillman, Minne-  
apolis

B.S. '54, University of Minnesota. Field of  
Concentration: Educational Psychology.

Olive J. Toft, Albert Lea

B.S. '45, Mankato State College. Field of  
Concentration: Art Education.

Akiko Tokuzo, Tokyo, Japan

B.A. '55, Keio University. Field of Concen-  
tration: Speech and Theater Arts.

Ralph Ormus Vessey, Bloomington

B.S. '58, St. Cloud State College. Field of  
Concentration: Curriculum and Instruction.

Minh Chi Thi Vu, Viet Nam

B.A. '59, St. Catherine's College. Field of  
Concentration: Educational Psychology.

Julia Fillmore Wallace, Mound

B.A. '60, Carleton College. Field of Concen-  
tration: Library Science.

Matthew Lee Webster, Stillwater

B.S. '51, Gustavus Adolphus College. Field  
of Concentration: Educational Psychology.

Ruth Alldredge Weideman, Mauston,  
Wis.

B.S. '38, Wisconsin State College (Milwau-  
kee). Field of Concentration: Educational  
Psychology.

VivaDelle Chilstrom Whitt, Minne-  
apolis

B.S. '55, St. Cloud State College. Field of  
Concentration: Curriculum and Instruction.

Edward William Zeman, Cloquet

B.A. '51, Catholic University of America.  
Field of Concentration: Education.

Ruth Evelyn Zuelke, Minneapolis

B.S. '52, University of Minnesota. Field of  
Concentration: Art Education.

## Master of Fine Arts

Freddy Marcel Munoz, Minneapolis

Graduate '53, Ecole Nationale Des Beaux-  
Arts D'Alger; Graduate '56, Ecole Nationale  
Superieure Des Beaux-Arts. Major: Art. Minor:  
French. Thesis: Two Centers: Four Painters  
—A Comparison.

## Master of Forestry

Richard Charles Trochlil, Springfield

B.S. '59, University of Minnesota. Field of  
Concentration: Forestry.

## Master of Science

**B. Alan Bendtsen, Rose Creek**

B.S. '59, University of Minnesota. Major: Forestry. Minor: Plant Pathology. Thesis: A Study of Specific Gravity and Moisture Content Relationships in the Standing Aspen Tree.

**Jerry Dale Dolence, Hibbing**

B.A. '58, University of Minnesota. Major: Geology. Minor: Mining Engineering. Thesis: The Pokegama Quartzite in the Mesabi Range.

**VerLee Rodger Gjovik, Strathcona**

B.S. '59, University of Minnesota. Major: Forestry. Minor: Plant Pathology. Thesis: The Application of Fluorescence Microscopy to the Study of Permeability of Aspen (*Populus tremuloides* Michx).

**Patricia Marie Gough, Eagle River, Wis.**

B.S. '58, University of Wisconsin. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: Beta-Lactoglobulins A and B: A Comparison of Their Reactions of Heat Denaturation and of Their Immunological Properties.

**Kathryn Ruth Hammer, Minneapolis**

B.S. in Med. Tech. with high distinction '53, University of Minnesota. Major: Physiological Chemistry. Minor: Physiology. Thesis: A Critical Evaluation of a Method for Isolation of Nucleic Acids from Mammalian Liver Tissue.

**Du Hwan Jang, Seoul, Korea**

D.V.M. '56, M.S. '58, Seoul National University. Field of Concentration: Veterinary Parasitology.

**Gopal Ji, Allahabad, India**

M.Sc. '48, Allahabad University. Field of Concentration: Business Administration.

**Kurt Albert Kaiser, Minneapolis**

B.S. with high distinction '57, University of Minnesota. Field of Concentration: Physics.

**Yebapas Leon Maksoudian, Beirut, Lebanon**

B.S. '57, California State Polytechnic College. Field of Concentration: Mathematics.

**Muhammad Abdul Bari Mallik, Pakistan**

B.S. '49, Rajshahi College; M.S. '52, Dacca University. Major: Plant Pathology. Minor: Botany. Thesis: Influence of Soil Factors on Seedling Blight of Corn.

**Elbert Lynn Marsh, Philadelphia, Pa.**

B.S. with distinction '59, University of Pennsylvania. Field of Concentration: Mechanics and Materials.

**Sigmund A. Mierzwa, Jr., Utica, N.Y.**

B.S. '59, Clarkson College. Field of Concentration: Organic Chemistry.

**Francis Philip Neumann, Stevenson, Md.**

B.S.F. '58, The Pennsylvania State University. Major: Forestry. Minor: Statistics. Thesis: Scale Movements of Jack Pine Cones.

**Chandulal Nathalal Patel, Ahmedabad, India**

B.Pharm. '50, M.Pharm. '58, Gujarat University. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: The Synthesis of Local Anesthetic Esters from 2-Hydroxyquinolizidine.

**Robert George Potosnak, Amboy**

B.S. '51, Wisconsin State College (River Falls). Field of Concentration: Agronomy.

**Ganta Gopal Reddy, Hyderabad, India**

B.Sc. in Agr. '52, Allahabad Agricultural Institute. Major: Soils. Minor: Agricultural Engineering. Thesis: Studies of Phosphorus Uptake in Oats Grown in Some Non-Alkaline Soil Series Representative of Major Great-Soil Groups of Minnesota.

**Edna Anna Regehr, Rosthern, Saskatchewan, Canada**

B.A. '55, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Chemical Characteristics of Some Marsupial Milks.

Stuart Leslie Scheiner, New York,  
N.Y.

B.A. *magna cum laude* '49, Syracuse University; M.D. '54, Howard University. Major: Physiological Chemistry. Minor: Pathology. Thesis: Intracellular Enzyme Levels in Human Gastrointestinal Mucosa: Comparison of Normal and Neoplastic States.

Irtaza Husain Siddique, Budaun,  
U.P., India

G.B.V.C. '50, Bihar Veterinary College. Field of Concentration: Veterinary Medicine.

Harlan Ray Stoehr, Elgin

B.S. '60, University of Minnesota. Field of Concentration: Journalism.

Samuel Kwaku Takyi, Okagyakrom,  
Ghana

B.S. '59, Cornell University. Major: Soils. Minor: Agricultural Biochemistry. Thesis: The Effects of Drying, Moisture Levels, and Cropping Intensity on the Availability to Plants of Applied and Native Soil Potassium.

James Ole Winjum, Faribault

B.B.A. '60, University of Minnesota. Field of Concentration: Business Administration.

## Master of Science in Aeronautical Engineering

Lawrence Wayne Rust, Jr., St. Paul

B.S. with distinction '59, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Trajectory Analysis of a Vehicle Entering a Planetary Atmosphere with Analytical and Numerical Solutions.

Charles Melvin Unger, Rossville, Ind.

B.S.A.E. '56, Purdue University. Major: Aeronautical Engineering. Minor: Astronomy. Thesis: Gravitational Perturbations of an Earth-Mars Vehicle.

## Master of Science in Chemical Engineering

Donald Merrill DeHart, St. Paul

B.S. with high distinction '57, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Simultaneous Reaction and Jet Crushing in a Fluidized Bed.

## Master of Science in Civil Engineering

Luis Urbano Jauregui, Buenos Aires,  
Argentina

C.Eng. '56, Sanitary Eng. '58, University of Buenos Aires. Field of Concentration: Civil Engineering.

## Master of Science in Dentistry

William Ruben Sabes, Minneapolis

B.S. '59, D.D.S. '59, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: The Effects of Cortisone upon Chemical Carcinogenesis in Hamster Pouch and Submandibular Salivary Gland.

## Master of Science in Electrical Engineering

William Conrad Bruncke, Minneapolis

B.S. '58, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Alloy-Junction Transistors at Liquid Nitrogen Temperature.

Robert Arthur Gerber, Donnelly

B.S. with distinction '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Equipment for Measuring the Light Emission in Disintegrating Gaseous Plasmas.

Clark Eugene Johnson, Jr., Minneapolis

B.S. '50, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Single-Domain Magnetization Curves for the General Ellipsoid.

Alan David Kaske, Minneapolis

B.S. with distinction '58, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Decay of Electromagnetic Radiation in Gaseous Discharges.

Der-Sheng Liu, Fukien, China

B.S.C. '54, Taiwan College of Engineering. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Synthesis of Two Interacting Linear Control Systems by Root-Locus Techniques.

Thomas Dexter Ludden, Minneapolis

B.S. with distinction '59, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Electrical Characteristics of Moving Blood.

James Merle Madson, Litchfield

B.S. with distinction '59, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Study of Processes in Gaseous Plasmas with the Aid of a Drift-Velocity Spectrometer.

Moustafa Aly Mosharrafa, Cairo, Egypt

B.S.C. '57, Cairo University. Major: Electrical Engineering. Minor: Physics. Thesis: Design and Construction of a Mass Spectrometer for the Study of Basic Processes in Plasma Physics.

## Master of Science in Medicine

Donald Rider Holsinger, Martinsville, Va.

B.S. '51, Randolph Macon College; M.D. '55, Medical College of Virginia. Major: Medicine. Minor: Pathology. Thesis: The Heart in Periarthritis Nodosa: A Clinicopathologic Study.

Ernst Wilhelm Keck, Hamburg, Germany

M.D. '54, University of Hamburg. Major: Medicine. Minor: Physiology. Thesis: Contribution of Heart Rate and Stroke Volume to the Cardiac Output of Dogs Under Various Conditions.

Hermann Menges, Jr., Cleveland, Ohio

B.A. '53, Hamilton College; M.D. '57, Western Reserve University. Major: Medicine. Minor: Pathology. Thesis: Subvalvular Aortic Stenosis—A Clinico-Pathological Review.

William Richard Myers, Des Moines, Iowa

B.A. '52, M.D. '54, State University of Iowa. Major: Medicine. Minor: Pathology. Thesis: Lesions of the Esophagus, Stomach, and Duodenum in Rheumatoid Arthritis.

## Master of Science in Ophthalmology

Wendell August Johnson, North Mankato

B.A. '53, Gustavus Adolphus College; M.D. '57, University of Minnesota. Major: Ophthalmology. Minor: Optics. Thesis: Transplantation of Homografts of Sclera on the Eye of the Dog, Including Volume Determination: An Experiment Study.

## Master of Science in Pediatrics

William Monroe Michener, St. Louis,  
Mo.

B.A. '51, Dartmouth College; M.D. '55, Tufts University. Major: Pediatrics. Minor: Physiology. Thesis: Evaluation of Thyroid Function by the Plasma and Red Cell Uptake of Thyroxine and Triiodothyronine.

## Master of Science in Psychiatry

Carl Phillip Malmquist, Minneapolis

B.A. *summa cum laude* '52, M.D. '58, University of Minnesota. Major: Psychiatry. Minor: Philosophy. Thesis: Psychiatry in the Twin Cities: A Historical and Current Survey.

## Certificate of Specialist in Education

Duane George Googins, Anoka

B.S. '59, M.A. '61, University of Minnesota.  
Field: School Psychological Services.

## Doctor of Philosophy

Ralph Everett Balyeat, Athens, Ga.

B.E.E. '28, The Ohio State University; M.A. '43, University of Toledo. Major: Business Administration. Minor: Psychology. Thesis: Perceptions of Industrial Relations Policies and Practices: A Developmental Project Involving a Pilot Study in Selected Firms. Major Adviser: Prof. H. G. Heneman, Jr.

Lee A. Borah, Jr., Cokato

B.A. *magna cum laude* '54, University of Minnesota; M.S. '56, University of Washington. Major: Psychology. Minor: Speech Pathology. Thesis: An Investigation of the Effect of Threat upon Interpersonal Bargaining. Major Adviser: Prof. H. H. Kelley.

Mohammed Umer Chapra, Karachi,  
Pakistan

B.Com. '54, M.Com. '56, University of Karachi. Major: Economics. Minor: Sociology. Thesis: Inflation and Monetary Policy in Pakistan, 1951-52 to 1959-60. Major Adviser: Prof. H. M. Smith.

Bent Aksel Christensen, Copenhagen,  
Denmark

Ph.B. '48, University of Denmark; M.S. in C.E. '51, The Technical University of Denmark. Major: Civil Engineering (Hydraulic Engineering). Minor: Civil Engineering (Soil Mechanics). Thesis: A Treatise on the Critical Shear Stress in Alluvial Watercourses. Major Adviser: Prof. L. G. Straub.

Knud Erik Clausen, Sakskøbing,  
Denmark

Graduate '49, Giesegård Forestry School; M.S. '59, University of Minnesota. Major: Forestry. Minors: Botany and Plant Genetics. Thesis: Studies of a Hybrid Birch Population. Major Adviser: Prof. S. S. Pauley.

Raymond Leland Cornwell, Oswego,  
N.Y.

B.S. '49, M.S. '52, The Stout Institute. Major: Education. Minor: Industrial Education. Thesis: Written Instructional Materials: An Experimental Comparison of Problem Centered and Traditional Assignment Sheets. Major Adviser: Prof. W. J. Micheels.

Kenneth Norman De Young, Minneapolis

B.A. '56, M.A. '57, Michigan State University. Major: Psychology. Minors: Philosophy and Sociology. Thesis: Word Recognition in the Upper and Lower Visual Fields. Major Adviser: Prof. D. L. LaBerge.

Bailey Lewis Donnally, Holtville, Ala.

B.Engr.Ph. '51, M.S. '52, Alabama Polytechnic Institute. Major: Physics. Minor: Mathematics. Thesis: A Polarized Proton Source for a Linear Accelerator and Measurement of Polarization in Scattering of Protons on Carbon. Major Adviser: Prof. L. H. Johnston.

Donald LeRoy Duncanson, Mondovi, Wis.

B.S. '51, Wisconsin State College (Eau Claire); M.A. '55, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Relationship of Role Expectations and the Behavior of School Superintendents in the State of Minnesota. Major Adviser: Prof. W. R. Lane.

Gerald Marshall Fort, Brookings, S.D.

B.A. '41, Grinnell College; M.A. '58, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: An Actuarial Identification of Characteristics Which Discriminate Among Certain Specified Student Subgroups Enrolled in a Midwestern Land-Grant College During a Recent Five Year Period. Major Adviser: Prof. C. J. Hoyt.

John Fraser, London, England

B.A. '53, M.A. '55, University of Oxford. Major: English. Minor: Philosophy. Thesis: George Sturt ("George Bourne") and Rural Laboring Life. Major Adviser: Prof. W. V. O'Connor.

Chuen-cheng Fu, China

B.S. '56, National Taiwan University; M.S. '60, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Response of Beams and Circular Plates Exhibiting Generalized Boundary Damping and Empirically Based Material Damping. Major Adviser: Prof. T. J. Mentel.

James Gordon Greeno, Minneapolis

B.A. '57, M.A. '58, University of Minnesota. Major: Psychology. Minor: Philosophy. Thesis: Effects of Nonreinforced Trials in Some Two-Choice Learning Experiments. Major Adviser: Prof. D. L. LaBerge.

Julia Guzman-Naranjo, Bogota, Colombia, South America

B.S. '42, University Pedagogica; M.S. '45, Washington University. Major: Plant Pathology. Minor: Botany. Thesis: The Nature of the Partial Resistance of Certain Clones of Three Species of Potatoes to *Phytophthora infestans* (Mont.) de By. Major Adviser: Prof. C. J. Eide.

Harvey Philip Hermanson, Spring Valley

B.S. '54, University of Minnesota; M.S. '57, Cornell University. Major: Soils. Minor: Agricultural Biochemistry. Thesis: The Fertility of Some Minnesota Peat Soils. Major Adviser: Prof. W. P. Martin.

James Gettier Kennedy, East Orange, N.J.

B.A. *summa cum laude* '54, Kenyon College; M.A. '55, University of Minnesota. Major: English. Minor: History. Thesis: Literary Convention and the Realistic Novels of Arnold Bennett. Major Adviser: Prof. W. V. O'Connor.

Thomas Jack Kiresuk, Savage

B.A. '52, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: The Effect of Test Sophistication on the Diagnostic Validity of the Minnesota Multiphasic Personality Inventory and the Rorschach with Paranoid Schizophrenics. Major Adviser: Prof. William Schofield.

Donald William Kohls, Rosemount

B.A. '56, Carleton College; M.S. '58, University of Minnesota. Major: Geology. Minors: Physical Chemistry and Geophysics. Thesis: Lithostratigraphy of the Cedar Valley Formation in Minnesota and Northern Iowa. Major Adviser: Prof. G. A. Thiel.

Robert Koncos, Chicago, Ill.

B.S. with honors '56, University of Illinois. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Studies Related to the Synthesis of 1-Benzothiepin. Major Adviser: Prof. W. E. Parham.

Ronald Thomas Lambert, Minneapolis

B.S. with distinction '50, M.A. '56, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: A Study of the Administration and Curriculum of the 1960 Elementary Summer School Program of the City of Minneapolis. Major Advisers: Profs. J. R. Curtin and Don Davies.

James Joseph Leigh, Minneapolis

B.S. *summa cum laude* '55, College of St. Thomas; M.S. '58, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Experimental Measurement and Stripping Analysis of  $\text{Be}^9(\text{Li}^6, \alpha)\text{B}^{11}$  Angular Distributions. Major Adviser: Prof. J. M. Blair.

Marvin Louis Lewbart, Camden, N.J.

B.Sc. '51, M.Sc. '53, Philadelphia College of Pharmacy and Science; M.D. '57, Jefferson Medical College. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Formation and Reactions of Steroidal Glyoxals. I. Reactions of  $\alpha$ -Ketolic Steroids with Methanolic Cupric Acetate. II. The Mechanism of the Porter-Silver Reaction. Major Adviser: Dr. V. R. Mattox.

Wei-ping Liu, Peiping, China

B.S. '48, National Chengchi University; M.S. in Agr. '55, University of Kentucky. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Taiwanese Agricultural Development since 1950. Major Adviser: Prof. S. O. Berg.

Louis James Maher, Jr., Iowa City, Iowa

B.A. with highest distinction '55, M.S. '59, State University of Iowa. Major: Geology. Minor: Botany. Thesis: Pollen Analysis and Post-glacial Vegetation History in the Animas Valley Region, Southern San Juan Mountains, Colorado. Major Adviser: Prof. H. E. Wright, Jr.

Richard William Mahlman, St. Cloud

B.A. '44, North Central College; M.A. '58, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Assessing Vocational Interests of Mental Patients. Major Adviser: Prof. L. H. Lofquist.

Norma Alejandro Maloney, Manila, Philippines

B.S. *Phar. cum laude* '48, University of the Philippines; M.S. '52, Emory University. Major: Botany. Minors: Zoology and Plant Genetics. Thesis: Comparative Morphology of Spores of the Ferns and Fern Allies of Minnesota. Major Adviser: Prof. A. O. Dahl.

Helen Aungst Manfull, Canton, Ohio

B.A. *magna cum laude* '55, Western College for Women; M.A. '56, University of Minnesota. Major: Speech and Theater Arts. Minor: English. Thesis: The New Realism (A Study of American Dramatic Realism from 1918-1929). Major Advisers: Profs. F. M. Whiting and J. D. Hurrell.

Daniel Christopher Neale, Minneapolis

B.A. '53, Harvard University; M.Ed. '55, Macalester College. Major: Educational Psychology. Minor: Education. Thesis: Observation by Closed Circuit Television, Kinescope, and Classroom Visitation in an Introductory Education Course. Major Advisers: Profs. C. G. Wrenn and R. J. Keller.

John Hamilton Ohman, St. Paul

B.S. with distinction '57, M.S. '58, University of Minnesota. Major: Plant Pathology. Minor: Forestry. Thesis: The Role of *Agropyron repens* in the Germination and Growth of Certain Crop Plants. Major Advisers: Profs. Thor Kommedahl and D. W. French.

Frederick William Peterson, Chicago, Ill.

B.A. *magna cum laude* '54, St. Olaf College; B.Th. '57, Luther Theological Seminary. Major: Art History. Minor: Philosophy. Thesis: Primitivism in Modern American Art. Major Adviser: Prof. Dimitri Tselos.

Johnie Lee Reeves, Austin, Tex.

D.V.M. '50, Agricultural and Mechanical College of Texas; M.S. '57, University of Minnesota. Major: Physiology. Minor: Physiological Chemistry. Thesis: Electrolyte and Acid-Base Changes Produced in Rats Exposed Intermittently to 18,000 Feet Simulated Altitude. Major Adviser: Prof. E. B. Brown, Jr.

Clifford Joseph Robson, Winnipeg, Manitoba, Canada

B.A. '39, B.Ed. '54, University of Manitoba; M.A. '49, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: An Experimental Study of the Efficacy of Two Instructional Methods in Introductory College Psychology. Major Advisers: Profs. C. J. Hoyt and W. W. Cook.

Rosalyn Aaron Rubin, Minneapolis

B.A. *magna cum laude* '54, B.S. '55, M.A. '57, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Social Comparison Processes of Superior 9th Grade Pupils. Major Adviser: Prof. M. C. Reynolds.

Thomas Daniel Rudolph, Bowls

B.S. '55, M.F. '57, University of Minnesota. Major: Forestry. Minor: Plant Genetics. Thesis: Lammas Growth and Prolepsis in Jack Pine in the Lake States. Major Adviser: Prof. S. S. Pauley.

**Alex Simirenko, Minneapolis**

B.A. '57, M.A. '58, University of Minnesota. Major: Sociology. Minor: History. Thesis: Pilgrims, Colonists, and Frontiersmen: An Ethnic Community in Transition. Major Adviser: Prof. D. A. Martindale.

**Charles Floyd Simpson, Gainesville, Fla.**

B.S. in Agric. '40, Rutgers University; D.V.M. '43, Cornell University; M.Sc. '55, The Ohio State University. Major: Veterinary Pathology. Minor: Bacteriology. Thesis: The Etiology and Pathology of Dissecting Aneurysms of Turkeys. Major Adviser: Prof. J. H. Sautter.

**Travis Irving Thompson, Minneapolis**

B.A. *cum laude* '58, University of Minnesota. Major: Psychology. Minor: Child Development. Thesis: The Effect of Two Phenothiazines and a Barbiturate on Extinction-Induced Rate Increase of a Free Operant. Major Adviser: Prof. G. T. Heistad.

**Dustin Whittier Wilson, Jr., La Crosse, Wis.**

B.S. '47, College of the Holy Cross; M.A. '48, Western Reserve University. Major: Education. Minor: Educational Psychology. Thesis: The Influence of Kinesthetic Ability on Learning to Read. Major Adviser: Prof. G. L. Bond.

**Richard Walter Winslow, Appleton, Wis.**

B.A. '51, M.A. '54, University of Minnesota. Major: Spanish. Minor: English. Thesis: The Contribution of Pedro Antonio de Alarcón to the Development of the Short Story. Major Adviser: Prof. W. T. Pattison.

**Philip Witonsky, New York, N.Y.**

B.S. '53, Queens College (N.Y.). Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies on a Mitochondrial Iodinating System. Major Adviser: Prof. Samuel Kirkwood.

## **Doctor of Philosophy in Neurology**

**Erland Nelson, Minneapolis**

B.A. '47, Carthage College; M.D., '51, Columbia University. Major: Neurology. Minor: Pathology. Thesis: Electron Microscopic Studies on Inflammation in the Central Nervous System. Major Adviser: Dr. A. B. Baker.

## **Doctor of Philosophy in Physical Medicine and Rehabilitation**

**Glenn Gullickson, Jr., Hopkins**

B.A. '42, B.S. '43, M.D. '45, University of Minnesota. Major: Physical Medicine and Rehabilitation. Minor: Physiology. Thesis: Studies on the Influence of the Sympathetic Nervous System on the Longitudinal Growth of Bones in Dogs. Major Adviser: Dr. F. J. Kottke.

## Academic Costume

On appropriate occasions, anyone with a college or university degree may wear academic costume consisting of a gown, a hood, and a cap. By observing the kind of academic costume a person wears, it is possible to know the name of the university from which he graduated, as well as the degree which he holds, and, in some cases, the field of his major interest as well.

The long, pointed sleeve of the gown indicates a Bachelor's degree; the long, closed sleeve with a slit near the upper part of the arm indicates a Master's degree; and the open sleeve marks a Doctor's degree. Bachelors' and Masters' gowns are black in color and are without any trimming. Generally, the Doctor's gown is black also, but some universities, particularly those abroad, prescribe such festive colors as red, crimson, or green. All Doctors' gowns have velvet trimming on the front facings and crossbars on the sleeves. This trimming may be black, or it may match the color of the edging of the hood and thus identify the profession or field of major interest of the wearer.

At a commencement it is quite proper to wear the gown—but not the hood—appropriate for the degree which is to be received. The only hoods worn at commencements are for degrees which have already been received. Thus only those students and faculty members who have already received college or university degrees wear hoods. Anyone who has a degree from the University of Minnesota may wear a hood decorated with a maroon chevron on gold background. The length and shape of the hood indicates whether the wearer has earned a Bachelor's, a Master's, or a Doctor's degree. The velvet edging on the hood indicates the field in which the degree was granted. For example, dark blue signifies Philosophy; light blue, Education; green, Medicine; lilac, Dentistry; orange, Engineering; russet, Forestry; drab, Business; olive green, Pharmacy; purple, Law; gray, Veterinary Medicine; golden yellow, Science; and white, Arts and Letters.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidates are honor students.

Caps, generally mortarboards with tassels, have significance, too. The Doctor's tassel may be black or gold. Masters' and Bachelors' tassels are black; but at University of Minnesota commencements—upon the authority of the University Senate Committee on Functions—candidates for the Bachelors' and Associates' degrees wear tassels which indicate their schools or colleges by color as follows:

(In the order of march)

General College .....	crimson and white
College of Science, Literature, and the Arts .....	white
University College .....	old gold and white
Institute of Technology .....	orange
College of Agriculture, Forestry, and Home Economics .....	maize

College of Education .....	light blue
School of Business Administration .....	drab
Law School .....	purple
College of Medical Sciences .....	green
Graduate School .....	black

But once the Bachelor's degree has been received and the commencement is over, the graduate, should he wear academic costume again, will wear only the black tassel as does the holder of the Master's degree. Similarly, he will not in the future wear the shoulder insignia as a part of his academic dress even if he is an honor graduate. All graduates of the University should remember that the academic dress at this University conforms to the rules of the Intercollegiate Bureau of Academic Costume. This means that Minnesota academic insignia may be easily secured anywhere in the world. And it is always worn proudly and with distinction—for ours is a great University.



# President's Reception

AUGUST, 1961

- The members of the graduating class, their families and friends, are invited to attend the President's Reception immediately after the commencement exercises. The reception will be held on the terrace of the Coffman Memorial Union. In case of rain the ballroom will be used.
- Those in the receiving line will be Dean Bryce Crawford, Jr., Mr. Ronald Moe, President of the Coffman Union Board of Governors, and Mr. Richard O'Laughlin, Senator, Minnesota Student Association.
- Assisting in the Reception are members of the Union Board of Governors and its committees, and of the following honorary societies: Chimes, Grey Friars, Iron Wedge, Mortar Board, Phoenix, and Silver Spur.
- Punch will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.
- The Florentine Fountain, newly installed on the Terrace and dedicated on May 18, 1961, is a gift from the late Regent James Ford Bell. The Fountain was made in Florence in 1620 by Pietro Tacca.



1862 • CENTENNIAL • 1962  
OF THE LAND-GRANT ACT

# December Commencement, 1961

## University of Minnesota

8:00 P.M., DECEMBER 14  
NORTHROP MEMORIAL AUDITORIUM

## THE BOARD OF REGENTS

Dr. O. Meredith Wilson, President

Mr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

The Honorable Charles W. Mayo, M.D., Rochester  
First Vice President and Chairman

The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior  
Second Vice President

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Bjarne E. Grottum, Jackson

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable A. J. Olson, Renville

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

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SMOKING AND USE OF CAMERAS—It is requested, by action of the Board of Regents, that in Northrop Memorial Auditorium smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms. The use of cameras in the auditorium by members of the audience is prohibited.

## *This Is Your University*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and tenth birthday. In the coming year, it will join with Land-Grant colleges and state universities throughout the nation in observing the centennial of the Land-Grant Act which created educational opportunities for all citizens and which embodied the concept that the welfare of the nation is dependent on the advancement of learning.

As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the youth of today, the citizens of tomorrow. Each year, physicians, lawyers, engineers, social workers, educators, journalists, dentists, veterinarians, farmers, businessmen—community and civic leaders in all fields—go from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence the University has awarded more than 157,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to giving collegiate instruction to more than 30,000 students on its Minneapolis, St. Paul, Duluth, and Morris Campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members who are county agents, home agents, 4-H Club agents, and recreation and health consultants give effective assistance to citizens of the state in their very homes.

In the diverse research laboratories on the University's four campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Mayo Foundation at Rochester, the Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects deal with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and new varieties of grains, fruits, and flowers to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the University Artists Course, Radio Station KUOM, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial

Building to be constructed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Contributions have made it possible to build the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the biological-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose thoughtful cooperation has made hundreds of scholarships and fellowships available each year to students of promise. Chiefly because of financial difficulties, only one-half of the Minnesota high school graduates of high ability enter any college or university. Because of this, the friends and supporters of the University are constantly trying to increase the number of scholarships and the amount of money available for such assistance.

Over recent years, much of the University's energy has gone into the necessary planning for the anticipated increases in future enrollments. At present about half of the students in Minnesota colleges and universities attend the University of Minnesota. If the other institutions continue to take this same percentage of these students, not less than 47,000 full-time, fully matriculated students will be attending the University in 1970. This means more teachers, more civil service staff members, more land, and more buildings.

THE 1959 LEGISLATURE granted the University \$49,068,181 for general maintenance during the 1961-63 biennium. In addition, the University received \$6,938,423 for University Hospitals; \$4,432,496 for special appropriations, including special extension and research activities; and \$7,789,351 (\$288,451 now available) for new buildings, land, and for the rehabilitation of existing buildings.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request as is a much more comprehensive and complete statement for those who wish to make a special study of the University's income and expenditures.

The summary financial statement of 1960-61 showed that the University received \$99,915,127.70 and spent \$99,915,799.55 including \$7,071,288.38 paid for the construction and remodeling of buildings and the purchase of land. Of the total received, \$17,296,674.64 came from student tuition and fees, hospital and other department receipts; \$1,642,152.76 from intercollegiate athletics, \$16,187,501.59 from such services as dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, the University Theater, and the Health Service, and from revolving funds; and \$22,781,979.60 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research, prizes, scholarships, and the care of the sick. Also \$4,301,271.13 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion. The state provided \$30,468,443.07, or 35.0% for the University's total operating costs.

All students at the University, their families and friends are invited to continue their enthusiasm and interest in the University of Minnesota. Graduates are especially urged to identify themselves with the Minnesota Alumni Association and the Greater University Fund and to return as frequently as possible to visit us here at the University.

# LAND-GRANT CENTENNIAL PROCLAMATION ISSUED BY THE PRESIDENT OF THE UNITED STATES

August 25, 1961

“WHEREAS July 2, 1962, marks the centennial of the first Morrill Act, approved by President Abraham Lincoln, granting public lands to States and territories in support of colleges to promote ‘liberal and practical education . . . in the several pursuits and professions in life’; and

“WHEREAS the Act opened the doors of colleges and universities to all with the ability and will to learn, irrespective of heredity, occupation, or economic status; and

“WHEREAS the land-grant institutions in the fifty States and the Commonwealth of Puerto Rico carry research and teaching to the citizens of these States and the Commonwealth and to people of other nations, particularly the emerging nations, seeking solutions to economic, social, and physical ills, and enriching the cultural life of the people; and

“WHEREAS the land-grant system of higher education is the Nation’s largest single source of trained and educated manpower and now contributes more than one-half of the Nation’s trained scientists and nearly one-half of all Regular and Reserve officers entering the armed forces through the military programs conducted at civilian institutions; and

“WHEREAS these institutions have historically maintained and currently maintain close cooperative relationships with the United States Department of Agriculture, which marks the centennial of its establishment on May 15, 1962, and also maintain close working relationships with other departments and agencies of the Government, including the Departments of Defense, the Interior, Commerce, Labor, and Health, Education, and Welfare, the United States Information Agency, and the International Cooperation Administration; and

“WHEREAS the Congress, by a joint resolution approved August 25, 1961, has requested the President to issue a proclamation recognizing the centennial of the establishment of the land-grant system of universities and colleges;

“NOW, THEREFORE, I, John F. Kennedy, President of the United States of America, do hereby proclaim that it is fitting and proper to commemorate the centennial of this historic Act of Congress; and I request that the agencies of the Government cooperate with the land-grant universities and colleges throughout the academic year 1961-1962 in recognizing the historical and present close cooperative relationship of such institutions with the departments and establishments of the Government.

“I also request that such centennial be otherwise appropriately celebrated to the end that the occasion may serve to commemorate the unparalleled opportunities for higher education provided by these publicly supported institutions and their efforts through teaching, research, and service to improve the

economic, social, and cultural lives of the people of this Nation and of other nations.

“IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of the United States of America to be affixed.”

THE LEGISLATURE OF THE STATE OF MINNESOTA passed a Land-Grant resolution in April, 1961, stating that the Centennial of the Land-Grant Act, providing grants of land to be set aside by each state for the support of public state colleges and universities devoted to the education of the common man, be observed and commemorated and that recognition be given by the people of the state to the Land-Grant Act as a cornerstone of American higher education.

## Order of Events

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Daniel Chorzempa, SLA '65, Carillonneur. Admission to the December commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

**ORGAN PRELUDE:** From 7:30 to 8:00 p.m., Associate Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play.

**PROCESSION:** The audience is requested to remain seated so that all can see the procession. At 8:00 p.m., Professor Ernest H. Henrikson, Ph.D., College of Science, Literature, and the Arts, Faculty Marshal, will carry the Mace into the auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Henrikson, as Mace Bearer, will present the Mace at the center of the stage. When all of those marching have taken their seats, he will put the Mace on the table to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

*Entrada in G Major* - - - - - Handel

**ON THE STAGE:** The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are: Professor Ernest H. Henrikson, Ph.D., College of Science, Literature, and the Arts, Marshal; Assistant Professor George J. McCutcheon, Ph.D., General College, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Professor Edwin L. Haislet, Ed.D., Executive Secretary of the Minnesota Alumni Association and Director of the Department of Alumni Relations; Lieutenant Colonel Robert J. Elliott, USA, Assistant Professor of Military Science; Dean Horace T. Morse, Ph.D., General College; Acting Dean Frank Verbrugge, Ph.D., Institute of Technology; Major Frederick D. Stockdale, USAF, Professor of Air Science; Associate Dean Marcia Edwards, Ph.D., College of Education; Dean Robert B. Howard, M.D., College of Medical Sciences; Vice President Malcolm M. Willey, Ph.D., Academic Administration; President Logan Wilson, Ph.D., American Council on Education, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Dean of Students Edmund G. Williamson, Ph.D.; The Reverend George G. Garrelts, Adviser to Catholic students and staff members on the Minneapolis Campus of the University; Vice President and Administrative Assistant Stanley J. Wenberg, M.A.; Professor Maurice B. Visscher, Ph.D., M.D., Graduate School; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Dean Harold Macy, Ph.D., Institute of Agriculture; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Associate Dean Huntington Miller, LL.B., General Extension Division; Captain Cary H. Hall, USN, Professor of Naval Science; Professor Roy A. Schuessler, M.M.,

## *Order of Events*

Music; Professor Raymond G. Price, Ph.D., College of Education, Marshal;  
Professor Robert J. Meade, Ph.D., Institute of Agriculture, Marshal.

**PRESENTATION OF COLORS:** As the color guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, enters the auditorium, the audience will rise and remain standing for the National Anthem and the Invocation.

**THE NATIONAL ANTHEM:** The entire audience and Professor Schuessler, soloist.

Oh, say can you see, by the dawn's early light,  
What so proudly we hailed at the twilight's last gleaming,  
Whose broad stripes and bright stars, thro' the perilous fight,  
O'er the ramparts we watched, were so gallantly streaming?  
And the rocket's red glare, the bombs bursting in air,  
Gave proof thro' the night that our flag was still there.  
Oh, say does that star-spangled banner yet wave  
O'er the land of the free and the home of the brave?

**INVOCATION:** The Reverend George G. Garrelts.

**SPEAKING FOR THE UNIVERSITY:** President O. Meredith Wilson.

**COMMENCEMENT ADDRESS:** Dr. Logan Wilson, President, American Council on Education, *What's Right With American Higher Education*.

**CONFERRING OF ROTC CERTIFICATES:** Vice President Willey will introduce Lieutenant Colonel Elliott, Captain Hall, and Major Stockdale, who will present the candidates for commissions in their respective branches of the Armed Services. Certificates of ROTC completion will be presented by President Wilson.

**PRESENTATION OF CANDIDATES:** Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction: Associate Dean Miller for the General Extension Division; Dean Morse for the General College; Dean McDiarmid for the College of Science, Literature, and the Arts, and for University College; Acting Dean Verbrugge for the Institute of Technology; Dean Macy for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Edwards for the College of Education; Dean Grambsch for the School of Business Administration; Dean Howard for the College of Medical Sciences; Professor Visscher for the Graduate School.

## *Order of Events*

CONFERRING OF DEGREES: President Wilson will confer certificates and degrees upon the members of this graduating class.

SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION: Professor Edwin L. Haislet.

PRESENTATION OF DIPLOMAS: With Dean Williamson presiding, members of the December graduating class will pass across the stage to receive their diplomas.

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: Candidates for this degree will be presented individually by Professor Visscher to President Wilson, who will confer the degrees.

HAIL! MINNESOTA: The University's Alma Mater song, sung by the audience and Professor Schuessler, soloist.

Minnesota, hail to thee!  
Hail to thee, our college dear!  
Thy light shall ever be  
A beacon bright and clear;  
Thy sons and daughters true  
Will proclaim thee near and far;  
They will guard thy fame  
And adore thy name;  
Thou shalt be their Northern Star.

Like the stream that bends to sea,  
Like the pine that seeks the blue,  
Minnesota, still for thee  
Thy sons are strong and true ;  
From thy woods and waters fair,  
From thy prairies waving far,  
At thy call they throng  
With their shout and song,  
Hailing thee their Northern Star.

POSTLUDE: Associate Professor Fleischer, organist.

*Prelude and Fugue in G Minor* - - - - - Buxtehude

THE AUDIENCE is requested to remain seated until those in academic costume have left the auditorium.

## *Candidates for Commissions*

Subject to the completion of all curriculum requirements at the close of the fall quarter, commissions will be presented as indicated on those listed below and upon such others as may meet the requirements for Reserve Officers in the Armed Services.

### **DEPARTMENT OF MILITARY SCIENCE**

#### **Second Lieutenant, Adjutant General Corps**

Sumner T. Lewis, La Grange Park, Ill.

#### **Second Lieutenant, Armor**

Edwin A. Cramer, Chatfield

#### **Second Lieutenant, Artillery**

Harvey F. Kaplan, St. Paul

#### **Second Lieutenant, Infantry**

Joseph A. Birk, Minneapolis  
Larry J. Terneus, Minneapolis

James A. Ulvenes, Faribault\*

#### **Second Lieutenant, Medical Service Corps**

David E. Tanner, Minneapolis

Herman B. Zinter, Minneapolis

#### **Second Lieutenant, Ordnance Corps**

Robert B. Kosse, Minneapolis

#### **Second Lieutenant, Transportation Corps**

John F. Sherman, Hopkins

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\* Designated Distinguished Military Graduate

## **DEPARTMENT OF NAVAL SCIENCE**

### **Ensign, USN**

Thomas A. Lunneberg, Minneapolis

## **DEPARTMENT OF AIR SCIENCE**

### **Second Lieutenant, USAF Reserve**

John C. Andres, St. Paul

## *Candidates for Graduation*

Subject to the completion of all curriculum requirements at the close of the fall quarter, degrees will be conferred as indicated on those listed below and upon such others as may meet the graduation requirements.

## **GENERAL EXTENSION DIVISION**

### **Business Administration Certificate**

Henry LeRoy deBoom, Minneapolis

### **General Engineering Certificate**

John Robert Adam, Minneapolis

### **Industrial Engineering Certificate**

Gerhard D. Neufeld, Minneapolis

### **Electrical Engineering Aide Certificate**

George Edward Swank, Rosemount

# GENERAL COLLEGE

## Associate in Arts

Merlyn DeWayne Arenson, Minneapolis  
Elizabeth Jo Barney, Minneapolis  
Richard Harold Berg, Minneapolis  
Donald Paul Bergquist, Jr., Minneapolis  
James Edward Bierbrauer, St. Paul  
Allan Leino Billey, Robbinsdale  
Lois Darlene Birkeland, Robbinsdale  
James Edward Bistodeau, Minneapolis  
William Jon Bliss, Minneapolis  
Gary Jay Bloom, St. Paul  
Kenneth George Boehmer, West St. Paul  
James William Brown, Minneapolis  
Challice Ethel Carr, Minneapolis  
David Earl Cauffman, Richfield  
Beatrice Agnes Chamshama, East Africa  
Daniel Norman Christenson, Dassel  
Gregory Maurice Coffey, Minneapolis  
Richard Irwin Cohn, St. Paul  
David Lee Cooke, Minneapolis  
Earl Leroy Davis, Jr., Minneapolis  
Marilyn Kay Dougherty, Kasson  
James Robert Duning, Minneapolis  
Joel Ronald Essig, St. Louis Park  
David F. Evans, St. Paul  
Thomas James Fahey, St. Paul  
Perry Fred Finck, St. Paul  
Robert Dale Foster, Minneapolis  
David John Froats, St. Paul  
Galen George Gerhard, Minneapolis  
Francis Kay Gnos, St. Paul  
Henry Arthur Graef, Excelsior  
Karen Suzanne Grech, Minneapolis  
John Lawrence Green, Minneapolis  
Michael Ray Gribble, Minneapolis  
Lyle Harvey Hansen, Willmar  
Harvey Daniel Harrington, Jr., St. Paul  
George Michel Harris, Richfield  
Francis Curtin Heck, Minneapolis  
Gary Leonard Holmstrom, St. Paul  
Betsy Jane Hooper, Minneapolis  
Gary Robert Ilstrup, Buffalo  
Janet Kaye Jared, Minneapolis  
Daniel John Johnson, Minneapolis  
Gerald Harry Johnson, Hinckley  
William Charles Jones, Osseo  
Joyce Gretchen Jordan, St. Paul  
David Berry Kalal, Minneapolis  
Barbara Anne Kalos, Minneapolis  
John Allan Katzenberger, Minneapolis  
Theodor Kembes, Greece  
Jerome Lawrence Kern, St. Paul  
Scoby Nicolas King, Fairmont  
Robert Luke Krawczewski, St. Paul  
James Joseph Langer, North St. Paul  
Carl Oscar Larson, Jr., Mound  
Patrick Ralph Leonard, Minneapolis  
Genette Kay Lindgren, St. Paul  
George William Lundberg, St. Paul  
Dennis Charles Lundeen, Minneapolis  
Loyd Richard Lundquist, Minneapolis  
Jon Paul Manning, Hopkins  
Susan Abbie Mark, Minneapolis  
Darrel Tyrone Mathieu, Minneapolis  
Ina Sue Michaels, St. Paul  
Dean Curtis Miller, St. Paul  
Gerald Michael Munzen, St. Paul  
George Henry Murray III, St. Paul  
Dennis Michael Nallick, Minneapolis  
Mary Lucinda Nelson, Wayzata  
Ronald James Nelson, St. Paul  
Jon M. Nesseth, Robbinsdale  
David Gordon Newgaard, Minneapolis  
James Bernard Nordenstrom, Mora  
Christine Louise Norman, Edina  
Ronald Ralph Noyes, Minneapolis  
Darrel Darwin Olson, Richfield  
Richard Oliver Olson, Jr., Minneapolis  
Eugene Michael Osland, West St. Paul  
Gary Richard Osman, Minneapolis  
Jane Clara Overmoe, Minneapolis  
Barbara Ann Ovshak, Minneapolis  
Kenneth Edward Patz, Minneapolis  
Marshall Lewis Pearson, Minneapolis  
Gerald Jesse Ray, Austin  
Vernon Joseph Ricci, West St. Paul  
Ronald Langer Rose, St. Louis Park

Brent Charles Running, Bloomington  
William Frank Schultz, Spring Park  
Jerry Cyril Silverberg, St. Paul  
Lawrence David Simmons, Minneapolis  
Darryl Bruce Sjostrom, Minneapolis  
Susan Marie Smisek, Minneapolis  
Glenn Douglas Spande, Minneapolis  
Judith Suzanne Stark, Minneapolis  
LeRoy William Stringer, Minneapolis  
John Raymond Swanberg, Anoka  
Dennis Lee Swenson, Minneapolis

Robert Michael Thornton, St. Paul  
Russell William Trout, Jr., St. Paul  
Marion Luella Tuma, Minneapolis  
Sally Ann Urquhart, St. Cloud  
Bruce F. Vento, St. Paul  
Gene Richard Ward, St. Paul  
Gwendolyn Marie Whitmore, St. Paul  
Ronald Theodore Wisti, Minneapolis  
Lawrence Douglas Wolfe, Minneapolis  
Jacqueline Virginia Zschokke, St. Paul

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

Charles Paul Arnold, Minneapolis  
William Henry Braunwarth, Minneapolis  
Michael Arthur Leo Brucciani, Minneapolis  
Harold Lannie Cragg, Minneapolis  
Barbara Deuhs, St. Paul  
Ronald Rodney Dittbenner, Morgan  
Judith Harriet M. Gurstel, St. Louis Park

David Lee Hansen, Minneapolis  
Judith Ann Hildebrand, Minneapolis  
Thomas Joseph Jennings, St. Paul  
Virginia Stuart Hubbard Kelby, Minneapolis  
Kay Margaret Kennedy, Minneapolis  
Bonnie Sue McFadden, Minneapolis  
Judy Gay Paulson, St. Paul  
Stuart Vance Shanedling, Minneapolis

### Bachelor of Arts

Sidney Louis Abrams, Minneapolis  
*Sandra J. Wiener Abramson, St. Paul,*  
MAGNA CUM LAUDE  
Suzanne Carol Agranoff, A.L.A.,  
Sioux City, Iowa  
Michael Jon Alvin, B.S., North Branch  
Kathleen Rogers Anderson, Minneapolis  
John Charles Andres, St. Paul  
John Cleveland Arnold, Mankato  
Mary Joy Barwise, St. Paul  
*Mary Michele Mayo Battermann,*  
St. Paul, MAGNA CUM LAUDE  
Joseph Aloysius Birk, Minneapolis  
Paul Harold Bork, Ellsworth, Wis.  
John Wallace Broen, St. Paul  
Charles Eugene Carlson, Hastings  
Jimmie Wayne Carlson, Sandstone  
Alice Lane Carlton, Minneapolis

C. Jerome Carroll, St. Paul  
Julia Chatak, A.A., Brackenridge, Pa.  
David Dake Chatfield, Minneapolis  
Stephen David Chodos, Minneapolis  
*Rollie Faye Chozen, Spirit Lake,*  
Iowa, MAGNA CUM LAUDE  
Warren Philip Clague, Wayzata  
Arleigh Ross Clemens, Minneapolis  
Richard Marcus Cohen, Duluth  
*Craig Harold Cranston, Minneapolis,*  
MAGNA CUM LAUDE  
Alvin Dale Cronberg, Minneapolis  
Norton Murdock Cross, Jr., St. Paul  
*Vernie-Mae Lorraine Czaky, Columbus,*  
Ohio, CUM LAUDE  
John Augustine Dalsin, Minneapolis  
Donald Edward De Zurik, Sartell  
Kathleen Lees Doeltz, St. Paul  
John Clark Eitreim, Winnebago

Albert Doren Eitsert, Minneapolis  
 Kenneth Earl Ellenberg, Spring Valley  
 Dennis Franklin Emrick, St. Paul  
 Leonard E. Englund, Minneapolis  
 James Ronald Gagen, Minneapolis  
 Steven William Garland, Minneapolis  
 Duane Dallas Gerard, Minneapolis  
 Mary Jo Goff, St. Paul  
 Ellsworth Carl Grev, Fairmont  
*Kathe Anne L. Grossman, Hopkins,*  
 CUM LAUDE  
 John Christian Hagen, Minneapolis  
*Eileen Thea Hamelberg, Minneapolis,*  
 CUM LAUDE  
 Jack Remen Hansen, Minneapolis  
 Susan Andrea Hanson, Minneapolis  
 Jan Kilmer Hartman, Frankfort, Ind.  
 Wayne Emmett Heaton, White Bear  
 Lake  
 Lawrence Robert Henke, Deephaven  
 Sallyann Christine Henriksen, Min-  
 neapolis  
 Carson Daniel Herron, Minneapolis  
 Ralph Kernon Ives, St. Paul  
 Leland Stuart Jahnke, Minneapolis  
 Keith David Jensvold, Minneapolis  
 David Lynn Johnson, Cokato  
 Donald James Johnson, St. Paul  
*Amy Sprague Jonsson, Minneapolis,*  
 MAGNA CUM LAUDE  
 Benjamin Emanuel Kajer, Owatonna  
 Jane Louise Kasper, St. Paul  
 Robert Harry Kingdon, Maynard  
 John Curtis Krogstad, Ada  
 Keith Alyn Kromer, Mound  
 Donald Richard Leistico, Worth-  
 ington  
 Jon Henry Lienemann, B.S., Min-  
 neapolis  
 Beth Vivian Linnerson, Carver  
 Gary R. Livermore, A.L.A., Minne-  
 apolis  
 Paul Reuben Lysne, Minneapolis  
 John Brook McClung, St. Paul  
 Richard Edward McDevitt, Minne-  
 apolis  
 Joan Marie McGonigle, St. Paul  
 Donna Lee Mehrtens, Minneapolis  
 Robert Allen Miles, Glen Lake  
 Bernard H. Miller, Slayton  
 Orville Norman Moen, Minneapolis

Robert Paul Monge, Tracy  
 Roger Eugene Murphy, Minneapolis  
 Karen Louise Narverud, Minneapolis  
 William Oliver Niederloh, Minne-  
 apolis  
 Robert Francis Niznik, Minneapolis  
*Douglas Dean Ohlson, St. Paul,*  
 CUM LAUDE  
 William Parks, Minneapolis  
*David Reardon Pederson, Underwood,*  
 MAGNA CUM LAUDE  
 Virginia Elizabeth Pennington, Min-  
 neapolis  
 Neil Francis Peterman, Excelsior  
 Robert Raymond Peterson, Minne-  
 apolis  
 Donald Kurt Pfeifer, St. Paul  
 David Lohr Planting, A.A., Spring  
 Valley  
*Michael Brian Pliam, Minneapolis,*  
 CUM LAUDE  
 Robert Emmett Quirk, St. Paul  
 David Phillip Rees, Minneapolis  
 Jamie Donald Reid, Duluth  
*Mae Shafter Rockland, New York,*  
 N.Y., CUM LAUDE  
 Luz Maria Rodriguez, Caracas, Vene-  
 zuela  
 Wayne Arlan Rohlfs, Mankato  
 Earl William Rossman, Minneapolis  
 Janet Louise Russell, Grantsburg,  
 Wis.  
 Roger William Ryan, Minneapolis  
 Sharon Lynn Sanders, Minneapolis  
 Richard George Sandhofer, Minne-  
 apolis  
 Michael Joseph Selner, St. Paul  
 John Fred Sherman, Hopkins  
 Michael Roger Sigelman, Fergus Falls  
 Robert Harmon Sillerud, Pelican  
 Rapids  
 Clarence John Steman, Minne-  
 apolis  
*Vera Joy Stephens, Minneapolis,*  
 MAGNA CUM LAUDE  
 Alyne Margot Stewart, Starbuck  
 Erik Fraser Storlie, Minneapolis  
 Harvey Gene Swenson, Minneapolis  
 David Earl Tanner, Edina  
 James Edward Taplin, Minneapolis  
 Darryl Bruce Tharalson, Minneapolis

Priscilla Joanne Thompson, Detroit  
Lakes  
*Barbara Jean Thorsen, St. Paul, CUM  
LAUDE*

Margaret Elizabeth Vandepas, Minne-  
apolis  
Mark Edward Vosbeek, Minneapolis  
Charles Edward Wimmer, Albany

## UNIVERSITY COLLEGE

### Bachelor of Arts

Sandra Maxine Kirk, Duluth

## INSTITUTE OF TECHNOLOGY

### Certificate in Science

Donald Hopkins Litterer, Minneapolis

### Bachelor of Science

Rodney Orval Bailey, Lakefield  
Paul Clarkston Jones, Altus, Okla.

Francis Orlin Olson, Hoffman

### Bachelor of Aeronautical Engineering

David Eugene Bauer, Center City

Donald Robert Nordwall, Sheboygan,  
Wis.

### Bachelor of Architecture

Raymond Willard Geiger, Sioux Falls,  
S.D.

*Ronald Wayne Haase, B.S., Mil-  
waukee, Wis., WITH DISTINCTION*

John Leroy Lawler, Scottsbluff, Neb.  
James William O'Brien, B.A., Grand  
Rapids

Herman Bernhard Zinter, Minneapolis

### Bachelor of Chemical Engineering

David Charles Angell, A.A., Austin

Gordon Robert Pole, White Bear  
Lake

### Bachelor of Chemistry

Clayton George Christensen, St. Louis  
Park

Norman W. Nelson, St. Paul  
Ernst Dieter Weiler, Minneapolis

## **Bachelor of Civil Engineering**

Robert Alan Adams, St. Paul

Richard Loren Hoppenrath, Mound

## **Bachelor of Electrical Engineering**

Donald G. Bailey, St. Paul

Emil David Haapala, Minneapolis

## **Bachelor of Mathematics**

Herman Ernest Gollwitzer, Truman

## **Bachelor of Mechanical Engineering**

William Judson Billett, Minneapolis

Donald William Boker, Minneapolis

Paul Raymond Brinson, A.A., Rochester

Ralph Dunn Burgess, Jr., Minneapolis

Dallas David Burns, Minneapolis

Joseph Roman Conner, A.A., London

Gerald Paul Elert, North St. Paul

Dennis John Enright, St. Paul

Vernon Edward Grimes, Minneapolis

Bruce Allan Hoem, Minneapolis

*George Gerhard Lunde, Minneapolis,*

WITH DISTINCTION

Douglas Byron Malchow, Wilder

Bruce Charles Marcy, Minneapolis

Robert Walke Morden, Tucson, Ariz.

Dewey Merlin Nelson, Owatonna

Robert Eugene Newman, St. Paul

Joseph Obert Nordby, Spring Valley

Robert Martin Reinstrom, Aurora

Amandus B. Schneider, White Bear Lake

Robert Ross Wilke, St. Paul

## **Bachelor of Metallurgy**

Douglas Bruce Nord, Minneapolis

## **Bachelor of Mining Engineering**

James Lawrence Wright, Eveleth

## **Bachelor of Physics**

*Roger Leon Fjerstad, Alexandria, WITH DISTINCTION*

# COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

## Bachelor of Science

- Richard John Ankerstjerne, Salix, Iowa, Forestry  
Wayne Robert Ash, Crookston, Forestry  
John Curtis Bergren, St. Paul, Agriculture  
Judith Ann Carlson, Cokato, Home Economics  
Edwin William Cramer, Chatfield, Forestry  
Robert Eugene Freeman, Waseca, Agriculture  
Andrea Lee Froehlich, St. Clair, Home Economics  
Donald Edwin Gartzke, Blue Earth, Agriculture  
David Henry Glubke, Minneapolis, Forestry  
Gordon Earl Gray, Redwood Falls, Forestry  
Randall Barnhard Grimm, Norwood, Agriculture  
Nicholas Adolph Gulden, New Ulm, Agriculture  
Gerald Walter Hecht, St. Paul, Forestry  
Elizabeth Ann Hille, Spicer, Home Economics  
*Donald Huisingh, Brooten, Agriculture, WITH DISTINCTION*  
John Erik Johannesson, Stora Tuna, Sweden, Agriculture  
Irvin Lee Johnson, Grand Rapids, Forestry  
Phillip Arthur Johnson, Minneapolis, Forestry  
Terry Carl Johnson, La Crosse, Wis., Forestry  
Darlene Mae LaFave, Thief River Falls, Home Economics  
Richard Arthur Madden, Tower, Forestry  
Janet Margaret McKenzie, Minneapolis, Home Economics  
Donald George Mrochinski, Milwaukee, Wis., Forestry  
Dorothy Suzanne Nordin Olson, Minneapolis, Home Economics  
Silvija Pakalns, Minneapolis, Home Economics  
Judith Ann Pfeifer, Lake Itasca, Home Economics  
Joanne Ardell Reese, Duluth, Home Economics  
Muriel Diane Rudd, New Richmond, Wis., Home Economics  
Marie Ann Schatzlein, Minneapolis, Home Economics  
Kenneth Roland Schrupp, Plato, Agriculture  
Robert Keneth Seemel, Little Marais, Forestry  
Jan Ray Seils, Stoughton, Wis., Forestry  
Owen Wesley Sivertson, Dalton, Agriculture  
Sally Ann Snyder, Thief River Falls, Home Economics  
Gerald Lee Strandlund, Mora, Agriculture  
*Bert Theodore Swanson, Taylor, N.D., Agriculture, WITH DISTINCTION*  
Barbara Lynne McLeroy Tidmarsh, St. Paul, Home Economics  
Roger David Tollefson, Beltrami, Agriculture  
Richard Elliott Vandegrift III, Albert Lea, Agriculture  
Gerald Michael Welch, Minneapolis, Forestry

# COLLEGE OF EDUCATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

## Bachelor of Science

Bonita Lucille Boutain, Clontarf, Home Economics Education	Beulah Victoria Lukason, Paynesville, Home Economics Education
Carolyn Marie Fink, Minneapolis, Home Economics Education	Carol Ann Meyer, Sebeka, Home Eco- nomics Education
Janice Marie Finstad, St. Hilaire, Home Economics Education	Eileen Arla Monson, Gibbon, Home Economics Education
Fredrick Peter Godfredson, Austin, Agricultural Education	Curtis LeRoy Nelson, Hutchinson, Agricultural Education
Josephine Carol Gute, Owatonna, Home Economics Education	Doris Louise Oitzman, Lewiston, Home Economics Education
Kay Vernelle Hetrick, Benson, Home Economics Education	Judith Aline Olson, Ironwood, Mich., Home Economics Education
Dennis Eugene Kluver, Butterfield, Agricultural Education	Joachim Friedrich Pusch, St. Paul, Agricultural Education
Marlys Ann Lidke, Braham, Home Economics Education	Helen Kloeckner Schultz, Fairmont, Home Economics Education

## COLLEGE OF EDUCATION

### Bachelor of Science

<i>Karen Ann Vinge Anderson, Minne- apolis, WITH DISTINCTION</i>	<i>Martha Lynn Urseth Brown, Minne- apolis, WITH DISTINCTION</i>
<i>Merodie Alice Anderson, Winnebago</i>	<i>Verniece Maureen Buan, Minneapolis, WITH DISTINCTION*</i>
<i>Virginia Marie Anderson, A.A., Ex- celsior</i>	<i>Elizabeth Anne Campbell, Minne- apolis</i>
<i>Ruth Marion Armel, Minneapolis, WITH DISTINCTION</i>	<i>Joan Baker Churchill, Cloquet, WITH DISTINCTION</i>
<i>Virginia Adele Bean, Green Isle</i>	<i>Barbara Ann Crist, Minneapolis</i>
<i>Rita Kay Benson, Hopkins</i>	<i>Dixie Marie Davis, St. Paul</i>
<i>Helen Elizabeth Berg, Northfield</i>	<i>Ray Elmer Delk, A.A., St. Paul</i>
<i>Mary Elizabeth Mahoney Bessler, Minneapolis</i>	<i>June Ione Engleson, Minneapolis*</i>
<i>Sharon LaRee Pont Bishop, Minne- apolis</i>	<i>Sharon Charney Epstein, Minneapolis</i>
<i>Carol Ann Blessing, A.A., Minneapolis</i>	<i>Joyce Carmelia Hart Evans, Minne- apolis</i>
<i>Susan Mary Bliss, Richfield</i>	<i>Verneil Dunn Ewert, Minneapolis</i>

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\* Nursing Education Curriculum

Judith Ann Fredin, Minneapolis,  
WITH DISTINCTION  
Gary Veral Gilmer, Hopkins  
Bonita Bebe Bowdish Griffin, Minne-  
apolis, WITH DISTINCTION  
Marlow Douglas Hanson, Minneapolis  
Samuel Kent Haroldson, St. Paul  
John Orson Hempstead, Houston  
Charlene Rose Hersh, Minneapolis  
Kathleen Tuominen Holmes, Tower  
Margaret Irene Homme, Minneapolis  
Eunice Marie Anderson Johnson,  
Chisholm\*  
Frieda A. L. Johnson, Woodbridge,  
Va.  
Ida Nellie Johnson, Webster City,  
Iowa, WITH DISTINCTION\*  
Wesley Allan Johnson, St. Paul  
Charlotte Julie Kaner, Duluth  
Gretchen Ann Koepke, Minneapolis  
Dale Lorentz Larson, Marine on St.  
Croix  
Keith Richard Larson, Marine on St.  
Croix  
Maren Andrus Larson, Minneapolis  
Vernon Delano Lindberg, Isanti  
Nancy Ann Bodovinitz Lovallo, A.A.,  
Virginia  
Elaine Judith Lundquist, Minne-  
apolis\*  
Judith Ann Malevich, Eveleth  
Paul William McDonald, Minneapolis  
Robert Ronald Minarik, Minneapolis

Carole Elaine Mohr, Minneapolis,  
WITH DISTINCTION  
Carol Kathleen Moline, Braham  
Alice Elizabeth Moore, Minneapolis,  
WITH DISTINCTION  
Esther Martinetti Morrow, Minne-  
apolis  
Mun Yum Moy, Minneapolis  
Kenneth Henry Nelson, Minneapolis  
Paula Christine Ohman, Minneapolis  
Deloris Patricia Paulson, White Bear  
Lake, WITH DISTINCTION  
Avonne Marie Pederson, B.A., Min-  
neapolis  
Marcia Gail Peterson, Fosston\*  
Joan Worrall Petroff, B.A., Minne-  
apolis  
Margaret Suzanne Reid, Mound  
Patricia Lou Rice, Winnebago, WITH  
DISTINCTION  
Mary Catherine Russell, Minneapolis  
Beverly Ann Ryan, Minneapolis  
Jon Edward Sanger, Minneapolis  
Arlin Duane Snesrud, A.A., Rochester  
James Lee Sturm, Fridley  
Ruth Schmalz Van Luven, Rockford,  
Ill., WITH DISTINCTION\*  
Marlene Beatrice Vartdal, Minne-  
apolis  
Barbara Ann Vetscher, Minneapolis  
Douglas Paul Wasko, St. Paul  
Marilyn Roberta Pollack Weisberg,  
Minneapolis, WITH DISTINCTION

## Master of Education

Clinton Robert Perkins, B.S., Monte-  
video  
Richard Joseph Rano, B.S., Hibbing

William Thomas Wasnick, B.S.,  
Montevideo

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Lowell Arden Anderson, St. Paul  
Steven James Baloga, South St. Paul

David Alfred Dederichs, Minneapolis  
William Robert Frane, Minneapolis

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\* Nursing Education Curriculum

*J. H. Halldorson, Minneapolis, WITH  
DISTINCTION*  
Roger William Hinze, St. Paul  
Douglas Edmond Lund, White Bear  
Lake

Paul Andrew Masnick, Regina,  
Saskatchewan, Canada  
Clyde Douglas Nelson, St. Paul  
Martin Henry Strandbergh, Detroit,  
Mich.  
Thomas E. Sullivan, Minneapolis

## **Bachelor of Science in Business**

Rodger Eugene Bronner, St. Paul  
David Dean Buhler, Butterfield  
Robert Irving Christensen, St. Paul  
Jon Carl Christopherson, Minneapolis  
Robert Carl Clausen, St. Paul  
James Richard Dietz, Elk River  
Stanley Allen Edin, A.A., Staples  
Darrell Arthur Farr, Minneapolis  
*Warren Andrews Field, Wayzata,*  
WITH DISTINCTION  
Philip Anderson Gartner, Preston  
Thomas E. Gilbert, Excelsior  
Douglas Wilbur Hackett, Minneapolis  
Gene Clayton Hammer, Anoka  
John Henry Heen, Minneapolis  
Howard Jensen, Minneapolis  
Bruce Neal Johnson, Minneapolis  
Willis Stephen Johnston, Minneapolis

Richard Conroy King, St. Paul  
James Freeman Kline, Minneapolis  
Daniel Leon Kondziolka, Minneapolis  
Sumner Todd Lewis, La Grange Park,  
Ill.  
Gerald Warren Lietz, Hopkins  
Thomas Alvin Lunneberg, Minne-  
apolis  
Brenton John Palin, Hopkins  
Lyle Duane Payne, Minneapolis  
Harold Gene Posthuma, B.Met.Eng.,  
Le Mars, Iowa  
Noel Leo Scherf, Isle  
Warren Arthur Strandlien, A.A., Hib-  
bing  
James Akre Ulvenes, Faribault  
David George Voita, St. Paul

## **Bachelor of Science in Economics**

Bill Eugene Bray, Minneapolis  
Richard Thorpe Tressel, Edina

Donald Howard Zornes, Minneapolis

## **COLLEGE OF MEDICAL SCIENCES**

### **Bachelor of Science in Nursing\***

Nancy G. Evans Olson, St. James

*Florence Emily Robertson White,*  
Warren, Pa., WITH DISTINCTION

### **Bachelor of Science in Nursing Administration**

*Lois Mae Hanson, Chaska, WITH DISTINCTION*

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\* These degrees are conferred subject to the satisfactory completion of nursing practice prior to March 15, 1962.

## Bachelor of Science

- Martha Ann Arko, Buhl, Medical Technology\*\*
- Gloria Ann Bagnas, A.A., West St. Paul, Medical Technology\*\*
- Catherine Anne Bartscher, St. Paul, Public Health Nursing, WITH DISTINCTION
- Marilyn Adelle Draxton, Hopkins, Public Health Nursing
- Dorothy Ann Engelbretson, West St. Paul, Medical Technology\*\*
- Ruth Elsie Huether, Minneapolis, Public Health Nursing
- Margaret Mary Jasa, Cedar Rapids, Iowa, Public Health Nursing
- Edna Esther Johnson, St. Paul, Public Health Nursing
- Joanne Carole Laine, Chisholm, Medical Technology\*\*
- Carmine Marie Marka, Mankato, Public Health Nursing
- Betty Lou Martin, Steprock, Ark., Public Health Nursing, WITH DISTINCTION
- Norma Fields Nager, Hazel Green, Wis., Public Health Nursing
- Alfred Gunnar Pearson, B.A., Minneapolis, Medicine
- Jessie Mae Jackson Richards, Dallas, Tex., Public Health Nursing
- Alice Evelyn Saari, Minneapolis, Medical Technology\*\*
- Lucille Ernestine Sime, Minneapolis, Public Health Nursing
- Elizabeth Marion Simon, Boone, Iowa, Public Health Nursing
- Elsie Arlene Womack, Minneapolis, Public Health Nursing

## GRADUATE SCHOOL

### Master of Arts

- Kenneth Allen Ames, Spring Valley, Wis.  
B.S. '53, Wisconsin State College (River Falls). Field of Concentration: Educational Psychology.
- Hubert Albian Anderson, Dwight, N.D.  
B.S. with honors '52, Moorhead State College. Field of Concentration: Curriculum and Instruction.
- Raymond Joseph Arko, Bloomington  
B.S. '48, University of Minnesota. Field of Concentration: Educational Administration.
- Richard Harry Aune, Grand Rapids  
B.A. '50, Augsburg College. Field of Concentration: Music Education.
- Armin V. Bartz, Plainview  
B.A. '52, B.S. '54, Winona State College. Field of Concentration: Educational Psychology.
- Mark Brocklebank Beach, Sheboygan, Wis.  
B.S. '59, University of Wisconsin. Field of Concentration: Educational Psychology.
- Lewis Dean Bennett, St. Louis Park  
B.S. '53, St. Cloud State College. Field of Concentration: Curriculum and Instruction.

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\*\* These degrees are conferred subject to the completion of practical work prior to March 15, 1962.

- Norbert G. Benzel, Minneapolis  
B.A. '54, Hamline University. Field of Concentration: German.
- Mary Walsdorf Bishop, Ladysmith, Wis.  
B.A. *cum laude* '59, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: Life History Studies on *Brachylaime ovatus* (Sinit-sin, 1931).
- LaVern Lowell Blietz, New Hampton, Iowa  
B.A. '59, Colorado State College of Education. Field of Concentration: History.
- Margaret Louise Blumberg, Bethesda, Md.  
B.A. '58, College of Wooster. Field of Concentration: History.
- Arndt Folkvard Braaten, St. Paul  
B.A. '49, St. Olaf College. Field of Concentration. Curriculum and Instruction.
- Frank William Bridges, Austin  
B.A. '51, Morningside College. Field of Concentration: Speech and Theater Arts.
- Brother Dominic Krivich, Minneapolis  
B.S. '51, St. Mary's College (Minn.). Field of Concentration: Educational Administration.
- Brother L. Ambrose Sebesta, Minneapolis  
B.S.S. '46, St. Mary's College (Minn.). Field of Concentration: Industrial Education.
- Carole Janet Brown, Nashwauk  
B.A. *summa cum laude* '59, University of Minnesota. Field of Concentration: Political Science.
- Dorothea Ursula Brusckhe, Minneapolis  
Graduate, Paedagogische Hochschule (Germany). Field of Concentration: Curriculum and Instruction.
- Alvar Ward Carlson, Antigo, Wis.  
B.S. '59, Wisconsin State College (Superior). Major: Geography. Minor: History. Thesis: Rural Settlement Patterns in the San Luis Valley, Colorado.
- Louis Edward Chappuie, Faribault  
B.A. '60, University of Minnesota. Field of Concentration: Economics.
- Paul Kenneth Christianson, Mankato  
B.A. '59, St. Olaf College. Major: History. Minor: Geography. Thesis: Recent Interpretations of the Origins of the English Civil War: The Storm Over The Gentry.
- Audrey LaFavor Commerford, St. Paul  
B.S. '52, University of Minnesota. Field of Concentration: Library Science.
- Anthony Samuel Costa, St. Paul  
B.S. with distinction '59, University of Minnesota. Field of Concentration: Educational Psychology.
- Aliniece Campbell Crosby, Minneapolis  
B.A. '59, University of Minnesota. Field of Concentration: History.
- Robert Gordon Curtis, Sudbury, Mass.  
B.A. *cum laude* '55, University of Minnesota. Field of Concentration: Mathematics .
- Hari Narayan Dam, Calcutta, India  
B.A. '44, M.A. '47, University of Calcutta. Field of Concentration: Journalism.
- Harriett Jean Demorest, Fort Dodge, Iowa  
B.A. '34, Grinnell College. Field of Concentration: Educational Psychology.
- Josefa Abarcar Dikitanan, Quezon City, Philippines  
B.S.E. *cum laude* '52, University of the Philippines. Field of Concentration: Home Economics Education.
- Betulah Miller Dittloff, Hudson, Wis.  
B.S. '53, Wisconsin State College (River Falls). Field of Concentration: Educational Psychology.
- Calvin H. Dreier, Hopkins  
B.S. '51, St. Cloud State College. Field of Concentration: Educational Administration.
- Mohamed Ali El-Hodiri, Munsa, U.A.R.  
B.Com. '58, University of Cairo. Field of Concentration: Economics.

Marie Katherine Elsen, Delano

B.A. '50, University of Minnesota. Field of Concentration: Library Science.

Eugene Arnold Fahlbusch, Minneapolis

B.S. '56, University of Minnesota. Field of Concentration: Educational Administration.

Harry Eugene Farra, Anoka

B.A. *cum laude* '58, Northwestern College. Field of Concentration: Speech and Theater Arts.

Keith Edward Fountain, Beaconsfield, England

B.A. '57, University of Leeds. Field of Concentration: Geography.

Vernon Iner Fryklund, Hibbing

B. of Ph. '52, Northland College. Field of Concentration: Curriculum and Instruction.

Elizabeth Nason Furber, St. Louis Park

B.A. '53, Carleton College; B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Frederick Galvin, St. Paul

B.A. *magna cum laude* '58, University of Minnesota. Major: Mathematics. Minor: Philosophy. Thesis: Covering Spaces and Simple Connectedness.

Isabel Houston Goldberg, St. Paul

B.A. *cum laude* '55, University of Minnesota. Field of Concentration: Psychology.

John Joseph Goulet, St. Paul

B.S. '52, University of Minnesota. Field of Concentration: Industrial Education.

David James Graham, Roberts, Wis.

B.S. '51, Wisconsin State College (River Falls). Field of Concentration: Curriculum and Instruction.

Robert Lewis Greenslit, Morgan

B.A. '51, Hamline University. Field of Concentration: Educational Administration.

Larry Charles Grove, Dawson

B.A. *summa cum laude* '60, University of Minnesota. Field of Concentration: Mathematics.

Leslie Spalding Haines, Lowell, Mass.

B.A. with honors '59, University of Maine. Field of Concentration: Journalism.

J. Frederick Hanson, St. Paul

B.A. '54, Carleton College. Field of Concentration: Library Science.

Obaid Ul Haq, Hyderabad, India

B.A. '52, M.A. '54, Osmania University. Field of Concentration: Political Science.

Richard Roman Hartman, Minneapolis

B.Aero.E. '44, B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Patricia Hill, Caledonia

B.A. '48, College of St. Teresa. Field of Concentration: Curriculum and Instruction.

Melvin George Hoagland, St. Bonifacius

B.S. '53, St. Cloud State College. Field of Concentration: Curriculum and Instruction.

Charles Stanley Hoffmann, Mound

B.S. '55, University of Minnesota. Field of Concentration: Physical Education.

Dennis Larry Hogenson, Madison Lake

B.S. '57, M.S. '59, Mankato State College. Field of Concentration: Educational Psychology.

Martha Worth Doan Hogshead, Duluth

B.A. *magna cum laude* '52, B.S. '54, University of Minnesota. Field of Concentration: Child Welfare.

Edwin James Hughes, Fairmont

B.A. '52, University of Minnesota. Field of Concentration: Library Science.

Milton Durwood Jacobson, Minneapolis

B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Dorothy Vallier Kalns, Sioux Falls, S.D.

B.A. '47, Iowa State Teachers College. Field of Concentration: Curriculum and Instruction.

John Evangelos Karoussos, Athens, Greece

Graduate '51, University of Athens. Field of Concentration: Educational Psychology.

Harvey Isidore Kaufman, Virginia  
B.A. '59, B.S. '60, University of Minnesota.  
Field of Concentration: Curriculum and Instruction.

Elinor Kathleen Kennedy, Winnipeg,  
Manitoba, Canada  
B.A. '44, University of Manitoba. Field of  
Concentration: Physical Education.

Dean DeWayne Knudsen, Minne-  
apolis  
B.A. '54, Sioux Falls College. Major: Soci-  
ology. Minor: Philosophy. Thesis: An Applica-  
tion of the Welfare—Bureaucratic and Indi-  
viduated—Entrepreneurial Typologies to a Se-  
lected Sample of College Freshmen.

Jerome Koenig, Minneapolis  
B.A. '52, M.Ed. '57, College of St. Thomas.  
Field of Concentration: Educational Psy-  
chology.

William John Koski, Wayzata  
B.S. '54, University of Minnesota. Field of  
Concentration: Educational Psychology.

Jon Morse Laible, Bloomington, Ill.  
B.A. '59, University of Illinois. Major: Mathe-  
matics. Minor: Statistics. Thesis: Examples of  
Nonunique Direct Decompositions of Torsion  
Free Abelian Groups into Indecomposable Iso-  
morphic Factors.

Anna Ahonen Laitala, St. Paul  
B.S. '39, University of Minnesota. Field of  
Concentration: Education.

Sarah Elizabeth Lampert, Minneapolis  
B.A. '57, Manhattanville College of the Sac-  
red Heart. Field of Concentration: French.

Walter Emil Larson, Worthington  
B.S. with distinction '48, University of Min-  
nesota. Field of Concentration: Agricultural  
Education.

Dorothy Anne Hayes Leathers, Min-  
neapolis  
B.A. *cum laude* '49, B.S. '53, University of  
Minnesota. Field of Concentration: Curricu-  
lum and Instruction.

Winston Shan-Siang Lei, Jau I,  
Kwangsi, China  
B.A. '49, National Cheng-Chi University.  
Major: Journalism. Minor: Political Science.  
Thesis: Joseph Pulitzer: An Interpretation.

Howard Clayton Lerohl, Excelsior  
B.A. '53, St. Olaf College. Field of Concen-  
tration: Music Education.

Dorothy Mildred Lien, Battle Lake  
B.S. '56, University of Minnesota. Field of  
Concentration: Home Economics Education.

James Bernard Lingwall, Minneapolis  
B.S. with distinction '57, University of Minne-  
sota. Major: Speech Pathology. Minor: Psy-  
chology. Thesis: A Study of the Effects of a  
Variety of Selected Experimental Conditions  
on the Frequency of Stuttering.

Robert Anthony Lorence, Lester  
Prairie  
B.A. '55, Hamline University. Field of Concen-  
tration: Curriculum and Instruction.

Indira Malani, Banaras, India  
B.A. '51, Vasanta College for Women; M.A.  
'53, B.Ed. '54, M.Ed. '55, Banares Hindu  
University. Field of Concentration: Educa-  
tional Psychology.

Neil Arven Markus, St. Paul  
B.S. with high distinction '57, University of  
Minnesota. Major: Geography. Minor: Educa-  
tion. Thesis: Areal Patterns of Religious De-  
nominationalism in Minnesota, 1950.

Myra Morton Mayo, Des Moines,  
Iowa  
B.A. '35, University of Minnesota. Major:  
Library Science. Minor: English. Thesis: A  
Foreign Language Collection for the Public  
Library of Des Moines, Iowa.

John Anthony McCrossan, Minne-  
apolis  
B.A. *magna cum laude* '60, University of Min-  
nesota. Field of Concentration: Library Sci-  
ence.

James Patrick McIntire, Proctor  
B.S. '49, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Nancy Jane McMullen, St. Paul  
B.A. '57, College of St. Catherine. Field of  
Concentration: Educational Psychology.

Bahman Mehri, Tehran, Iran  
B.S. '57, University of Tehran. Field of Con-  
centration: Mathematics.

- Narinder Kumar Mehta, Delhi, India  
B.Comm. '58, University of Delhi. Field of Concentration: Industrial Relations.
- Walter Robert Meissner, Jr., Rush City  
B.S. with distinction '59, University of Minnesota. Field of Concentration: Music Education.
- Roger Lewis Menigo, Chippewa Falls, Wis.  
B.S. '51, University of Wisconsin. Field of Concentration: Art Education.
- Robertta Robison Mielke, St. Paul  
B.A. *cum laude* '59, B.S. with distinction '59, University of Minnesota. Major: Mathematics. Minor: Educational Psychology. Thesis: Quasi-conformal Mappings.
- Muriel Wilson Mixon, Billings, Mont.  
Dip.F.A. '34, Durham University. Major: Library Science. Minor: Journalism. Thesis: The Development of Photographic Reproduction Techniques and Their Application to American Magazine and Book Illustration During the Years 1850-1890.
- Lawrence Paul Monnens, Prior Lake  
B.A. *cum laude* '60, St. Mary's College (Minn.). Field of Concentration: Educational Psychology.
- Lee Nels Henry Moren, Minneapolis  
B.S. '56, University of Minnesota. Field of Concentration: Industrial Education.
- William Towner Morgan, Pipestone  
B.A. '55, Macalester College. Field of Concentration: American Studies.
- Magne Bernard Olson, Minneapolis  
B.A. '58, Augsburg College. Field of Concentration: History.
- Theodore Berton Olson, Hendrum  
B.A. '49, Bemidji State College; B.S. '51, University of Minnesota. Field of Concentration: Educational Administration.
- William Whitcomb Otis, Ashland, Wis.  
B.A. '54, Northland College. Field of Concentration: Music Education.
- Margaret Helseth Pascoe, St. Louis Park  
B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Kenneth David Pedersen, Austin  
B.S. '57, Winona State College. Field of Concentration: Educational Administration.
- Fred McCrae Peterson, Minneapolis  
B.A. '58, University of Minnesota. Field of Concentration: Library Science.
- Gail Archie Peterson, Minneapolis  
B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Patricia Walters Peterson, Minneapolis  
B.A. *cum laude* '61, University of Minnesota. Field of Concentration: Library Science.
- Norman Dale Petrik, Anoka  
B.A. '60, Augustana College (S.D.). Major: Psychology. Minor: Educational Psychology. Thesis: Two-Choice Discrimination Latency as a Function of Presentation Probability.
- Karl George Petzke, Winfield, Kan.  
B.S. '56, Valparaiso University. Field of Concentration: Physical Education.
- Catherine Ann Pfaff, South Bend, Ind.  
B.S. in H.Ec. '46, University of Arizona. Field of Concentration: Home Economics Education.
- Eleonore Hassinger Prigge, Minneapolis  
B.E. with honor '39, Winona State College. Field of Concentration: Educational Psychology.
- Alice Ruth Ranum, Starbuck  
B.A. *cum laude* '49, Luther College. Field of Concentration: Educational Psychology.
- Mary Eaton Read, Fairfield, Conn.  
B.A. '59, Beloit College. Major: Anthropology. Minor: Political Science. Thesis: Political Transfer in French-Influenced West Africa.
- Margaret Davis Reschlein, La Crosse, Wis.  
B.A. *summa cum laude* '59, Northwestern College (Minn.). Field of Concentration: Library Science.

Edward Joseph Richer, Gainesville,  
Fla.

B.A. *cum laude* '54, University of Minnesota.  
Field of Concentration: Journalism.

Douglas Marshall Rossi, Minneapolis

B.S. '56, University of Minnesota. Field of  
Concentration: Educational Administration.

Garfield Joel Rowe, Luck, Wis.

B.A. '35, Northland College. Field of Con-  
centration: Educational Administration.

Orville George Ruud, Bloomington

B.S. '53, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Richard Allen Scamfer, Washburn,  
Wis.

B. of Phil. '53, Northland College. Field of  
Concentration: Education.

Richard William Schuele, Cedar Rap-  
ids, Neb.

B.S. '57, Creighton University. Field of Con-  
centration: History.

Marlowe Gene Severson, St. Cloud

B.S. '53, St. Cloud State College. Field of  
Concentration: Physical Education.

Elizabeth Ann Shelver, Staples

B.A. '53, Carleton College. Field of Concen-  
tration: Library Science.

William T. Sher, Minneapolis

LL.B. '46, National Yunnan University. Field  
of Concentration: Economics.

Ellen Yonnett Siegelman, Minne-  
apolis

B.A. '47, New Jersey College for Women;  
M.A. '50, University of Minnesota. Field of  
Concentration: Psychology.

Charles Frederick Sjogren, Minne-  
apolis

B.A. *cum laude* '54, Hamline University. Field  
of Concentration: English.

Arvid Neil Skogerboe, Northfield

B.A. '50, Concordia College. Field of Concen-  
tration: Educational Administration.

Wayne William Sorenson, St. Paul

B.B.A. '59, University of Minnesota. Field of  
Concentration: Psychology.

David C. Speer, Minneapolis

B.A. '59, University of Minnesota. Field of  
Concentration: Psychology.

Donald Bruce Steinmetz, Stillwater

B.A. '57, University of Minnesota. Field of  
Concentration: German.

Kenneth Gerard Strei, Minneapolis

B.A. '54, College of St. Thomas. Field of Con-  
centration: Educational Psychology.

Sheila Mary Stribley, St. Paul

B.A. '58, College of St. Catherine. Field of  
Concentration: Library Science.

Evelyn C. Thompson, Powell, Wyo.

B.A. '37, Nebraska State Teachers College.  
Field of Concentration: Educational Psychol-  
ogy.

Fay A. Thompson, Powell, Wyo.

B.S. '39, University of Wyoming. Field of  
Concentration: Agricultural Education.

James Bert Togeas, Fort Dodge, Iowa

B.A. '59, St. Olaf College. Field of Concen-  
tration: Organic Chemistry.

Eula Rosina Tombaugh, Nampa,  
Idaho

B.S. '43, Iowa State College. Field of Con-  
centration: Home Economics.

Earl Richard Trude, Minneapolis

B.S. '51, University of Minnesota. Field of  
Concentration: Speech and Theater Arts.

Melvin F. Tuscher, Seattle, Wash.

B.S.Ed. '55, Northern State Teachers College.  
Field of Concentration: Mathematics.

Donald Bernette Walker, Mt. Sterl-  
ing, Wis.

B.S. '57, University of Minnesota. Field of  
Concentration: Agricultural Education.

Faye McClellan Wells, Port Arthur,  
Tex.

B.A. '44, M.S. '49, Prairie View University.  
Field of Concentration: Curriculum and In-  
struction.

Thomas Diedrich Wittenberg, Minne-  
apolis

B.A. '58, Dartmouth College. Field of Con-  
centration: American Studies.

Thalia Elizabeth Wittman, Kiester  
B.A. *summa cum laude* '49, Luther College.  
Field of Concentration: Library Science.

Charles Thomas Yarusso, St. Paul  
B.A. '54, Macalester College; LL.B. '59, University of Minnesota. Field of Concentration: Industrial Relations.

Seymour Yesner, Minneapolis  
B.S. '48, Boston College; B.S. '54, University of Minnesota. Field of Concentration: Education.

Jesus Fallega Zarandin, Bacolod City, Philippines  
B.S. Comm. *summa cum laude* '56, University of Negro Occidental. Field of Concentration: Economics.

## Master of Arts in Public Administration

Juan Figueroa-Torres, Santurce, Puerto Rico  
B.A. with high honors '60, University of Puerto Rico. Field of Concentration: Public Administration.

Catherine Denis Papastathopoulos, Pyzgos, Elias, Greece  
B.A. '59, Coe College. Major: Public Administration. Thesis: Local Government in Greece.

James William Stockdill, Barrett  
B.A. '60, University of Minnesota. Major: Public Administration. Thesis: Federal Administrative Internship Programs—A Case Study of the Administrative Internship Program at the XIV United States Army Corps.

## Master of Business Administration

Amos Brooks Naffziger, Minneapolis  
B.S. '50, B.E. '53, Yale University. Field of Concentration: Business Administration.

## Master of Fine Arts

William Adolph Bartsch, St. Paul  
B.A. *cum laude* '54, University of Minnesota. Major: Art. Minor: History. Thesis: Tradition and Horror in the Paintings of Francis Bacon.

## Master of Science

Mahmoud Adawi Abdel-Rahman, Cairo, Egypt  
B.Pharm. '57, Cairo University. Field of Concentration: Pharmacology.

Abdul Kareem Nasir Al-Dulaimi, Baghdad, Iraq  
B.Sc. '56, College of Agriculture (Iraq). Major: Dairy Industries. Minor: Public Health. Thesis: Some Factors Influencing the Recovery and Stability of Penicillin in Milk and Milk Products.

Narayan V. Belur, New Delhi, India  
B.Sc. '51, Agricultural College (India). Major: Entomology. Minor: Botany. Thesis: Some Insect Predators of Corn Borer and Their Relation to the Survival of the Immature Stages of the Borer.

Edward Donald Berglund, South St. Paul  
B.A. '58, Macalester College. Field of Concentration: Physical Chemistry.

Keith LaMar Brower, Holland, Mich.  
B.A. '58, Hope College. Major: Physics.  
Minor: Mathematics. Thesis: Diffusion of  
Gadolinium into Calcium Fluoride.

Leonard Francis Burkart, Milwaukie,  
Ore.  
B.S. in For. '49, M.F. '50, University of  
Washington. Field of Concentration: Forestry.

Francis Fredrick Busta, Montgomery  
B.A. '57, University of Minnesota. Major:  
Dairy Industries. Minor: Agricultural Biochem-  
istry. Thesis: Thermal Death Time Studies  
on Staphylococci of Dairy Origin.

Chang Kook Cheong, Seoul, Korea  
D.V.M. '51, Seoul National University. Field  
of Concentration: Veterinary Medicine.

Yong Sup Cho, Masan, Korea  
B.S. '58, Seoul National University. Major:  
Plant Pathology. Minor: Bacteriology. Thesis:  
Factors Affecting Sporulation of *Aphanomyces*  
*euteiches* Drechs.

Richard LeRoy Clancy, Hardy, Iowa  
B.A. '56, University of Minnesota. Major:  
Physiology. Minor: Physiological Chemistry.  
Thesis: The Effect of Hypercapnia on Sodium  
and Potassium Concentrations in Compact  
Bone.

Ernesto De Las Casas-Aguirre, Mexi-  
co City, Mexico  
Agronomist '55, Escuela Particular de Agricul-  
tura (Mexico). Major: Entomology. Minor:  
Plant Pathology. Thesis: The Influence of *Sito-  
philus granarius* (L.) and Stored Grain Fungi  
in Changing the Environment in Experimental  
Cylinders of Wheat.

James Arthur DeMattia, Farmington,  
Mich.  
B.S. '59, University of Detroit. Field of Con-  
centration: Physics.

John Wagner Drenckpohl, Minne-  
apolis  
B.A. *cum laude* '59, St. Olaf College. Major:  
Organic Chemistry. Minor: Inorganic Chemis-  
try. Thesis: Reactions of Indoles and Indazole  
with Dienophiles.

Thomas Michael Kitley Evans, Car-  
marthen, United Kingdom  
B.Sc.(Agric.) '54, University of Reading. Field  
of Concentration: Agricultural Economics.

Morris David Faiman, Winnipeg,  
Manitoba, Canada  
B.S. '55, University of Manitoba. Major:  
Pharmaceutical Technology. Minor: Pharma-  
cology. Thesis: Some Considerations of Enteric  
Coating.

Roberta Anderson Gardner, Minne-  
apolis  
B.A. *summa cum laude* '58, Gustavus Adol-  
phus College. Major: Bacteriology. Minor:  
Physiological Chemistry. Thesis: Studies on  
Epidemic Diarrhea of Infant Mice.

Theodore Edward Gram, Minneapolis  
B.S. '57, University of Minnesota. Field of  
Concentration: Pharmacology.

Myron Francis Grimes, St. Cloud  
B.S. '50, University of Wisconsin. Major:  
Soils. Minor: Agricultural Economics. Thesis:  
The Characterization and Classification of  
Some Soils Developed from Mixed Brown and  
Gray Tills in Central Minnesota.

David Edward Hamerski, Winona  
B.S. *cum laude* '58, St. Mary's College  
(Minn.). Field of Concentration: Physics.

Karen Kimiyo Horibe, Hanapepe,  
Hawaii  
B.S. in Ed. '59, Northeast Missouri State  
Teachers College. Major: Anatomy. Minor:  
Zoology. Thesis: Studies on the Effects of  
Estradiol-17 Beta and Progesterone on the  
Epithelium of the Fallopian Tube of the  
Mouse.

Richard Arthur Horn, Minneapolis  
B.S. '59, University of Minnesota. Major: For-  
estry. Minor: Plant Pathology. Thesis: The  
Isolation of Pure Extractable Components from  
Fluorescent Aspenwood.

Ting Huan Hsiao, China  
B.Agr. '57, Taiwan Provincial College of Ag-  
riculture. Major: Entomology. Minor: Agri-  
cultural Biochemistry. Thesis: The Biology  
and Ecology of *Lydella grisescens* R-D, a  
Tachinid Parasite of the European Corn Borer,  
in Minnesota.

Po-Fang Hsieh, Tainan, Formosa

B.Sc. '57, National Taiwan University. Major: Mathematics. Minor: Physics. Thesis: Effective Determination of Canonical Conformal Maps of Multiply-Connected Domains.

Cheng Hsiung Hwang, Kaohsiung, Formosa

B.S. '56, Taiwan Provincial College of Agriculture. Field of Concentration: Forestry.

John William Jenne, Minneapolis

B.A. *cum laude* '50, M.D. '54, University of Minnesota. Major: Physiological Chemistry. Minor: Pathology. Thesis: A Study of the Acetylation of Isoniazid and P-Aminosalicylic Acid in Pigeon Liver.

William Anthony Joern, Moline, Ill.

B.A. '58, St. Mary's College (Minn.). Field of Concentration: Organic Chemistry.

Earl Owen Knutson, New London

B.A. *summa cum laude* '58, Concordia College. Major: Physics. Minor: Mathematics. Thesis: The Stopping Power of Formvar for Lithium Ions.

Ung Ring Ko, Seoul, Korea

M.D. '57, M.Med.Sci. '59, Seoul National University. Field of Concentration: Biostatistics.

Surendra Kumar, Roorkee, India

B.V.Sc. & A.H. '57, Mathura Veterinary College. Field of Concentration: Veterinary Bacteriology.

Su-Ching Lai, Chiayi, Formosa

B.Agric. '57, Taiwan Provincial College of Agriculture. Field of Concentration: Forestry.

James Lewis Levine, Neponsit, N.Y.

B.S. '58, Massachusetts Institute of Technology. Major: Physics. Minor: Mathematics. Thesis: A Study of Some Experimental and Theoretical Details of a Measurement of the Mobility of Electrons in Liquid Helium II.

John Douglas Lindstrom, Braham

B.S. '56, University of Minnesota. Field of Concentration: Agricultural Economics.

Ruth B. Locwenson, Minneapolis

B.A. '59, University of Minnesota. Field of Concentration: Biostatistics.

Wayne Lawrence Lough, Rochester

B.S. '59, University of Minnesota. Major: Horticulture. Minor: Plant Genetics. Thesis: Effects of Temperature Fluctuations on Ace Easter Lilies.

Abdel-Moneim Mohamed Makky, Cairo, Egypt

B.Sc. '52, M.Sc. '57, University of Cairo. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: The Vinylindole Synthesis of Carbazoles; with 3-(2-Indenyl)Indoles.

James Clement Mickus, New Prague

B.S. '55, College of St. Thomas. Major: Inorganic Chemistry. Minor: Analytical Chemistry. Thesis: Studies of Copper Dissolution in Nitric Acid and in the Presence of Accelerators and Inhibitors.

Waldemar John Moline, Frederic, Wis.

B.S. '59, Wisconsin State College (River Falls). Major: Agronomy. Minor: Agricultural Botany. Thesis: Evaluating the Effect of Cutting Date on Yield and Nutritive Value of Alfalfa with Small Animal Assays, Clipping Trials and Chemical Analysis.

James William Nordstrom, Eagle Bend

B.S. '47, University of Minnesota. Field of Concentration: Animal Husbandry.

Salah El-Din Ahmed Osman, Cairo, Egypt

B.Sc.(Agr.) '58, Ein Shams University. Major: Entomology. Minor: Public Health. Thesis: Some Physiological Studies on the Water Requirements and Water Exchanges of the Meadow Vole *Microtus pennsylvanicus* Ord.

Athanasios John Patitsas, St. Peter, Greece

B.S. '58, University of Minnesota. Field of Concentration: Physics.

Thomas Michael Peters, Los Angeles, Calif.

B.S. '59, Long Beach State College. Major: Entomology. Minor: Plant Pathology. Thesis: Some Aspects of the Biology of the Barley Thrips, *Limothrips denticornis* Haliday in Minnesota.

Charles Harmon Pierce, Anoka

B.A. '56, University of Minnesota. Major: Pharmacology. Minor: Public Health. Thesis: Effects upon Respiration of a Meperidine Derivative Using a New Experimental Approach.

James Thomas Prince, Osseo

B.A. '52, University of Minnesota. Major: Bacteriology. Minor: Zoology. Thesis: The Role of Echo (Enteric Cytopathogenic Human Orphan) Viruses in Disease and Laboratory Observations of an Echo Type 9 Virus Outbreak.

Vernon George Pursel, Yerington,  
Nev.

B.S. '58, University of Nevada. Field of Concentration: Dairy Husbandry.

Mahesh Kumar Rai, Bilaspur, India

B.V.Sc. '54, University of Saugar. Field of Concentration: Animal Husbandry.

Padukone Krishna Rao, Bombay, India

B.Sc. '47, University of Madras; B.Sc. '52, Benares Hindu University; M.Sc. '59, Bombay University. Field of Concentration: Pharmaceutical Chemistry.

John Walter Russell, Lyons, Ill.

B.A. '58, Ohio Wesleyan University. Field of Concentration: Business Administration.

Mary Patricia Ryan, Minneapolis

B.S. '41, College of St. Catherine. Field of Concentration: Home Economics.

William Schulman, Detroit, Mich.

B.S. '45, Wayne University. Field of Concentration: Physiological Chemistry.

David Arthur Seeland, South St. Paul

B.A. '59, University of Minnesota. Major: Geology. Minor: Geophysics. Thesis: Stratigraphy and Cross-Bedding of the Aladdin Sandstone, Black Hills, South Dakota.

Key June Seoung, Seoul, Korea

M.D. '53, M.Med.Sci. '56, Seoul National University. Major: Anatomy. Minor: Zoology. Thesis: (A) Experimental Study of Pregnancy, Diabetes and Subdiabetes in the Rat; (B) Radioautographic Studies of the Uterus in the Pseudopregnant Mouse.

Kai Won Song, Suwon, Korea

B.S. '48, Seoul National University. Field of Concentration: Animal Husbandry.

Gloria Joan Trelle, Milwaukee, Wis.

B.S. *magna cum laude* '54, Marquette University. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Studies on the *in vitro* Oxidation of  $\alpha$ -Tocopherol by Ferric Iron.

Dale Anthony von Ruden, St. Paul

B.S. '59, North Dakota State University. Major: Plant Pathology. Minor: Plant Genetics. Thesis: *Fragaria virginiana*—An Index Host for Viruses of Strawberry.

Daniel E. Weiner, Minneapolis

B.A. '57, University of Minnesota. Major: Physiology. Minor: Physiological Chemistry. Thesis: The Kinetics of Water Distribution in the Canine Small Intestine.

Ronald Earle Welty, Winona

B.S. '56, Winona State College. Major: Plant Pathology. Minor: Entomology. Thesis: Moisture Content, Germination Percentage, Germ Damage, and Storage Fungi in Corn Stored Four Years in a Commercial Bin, and Factors Affecting the Growth of *Aspergillus restrictus*.

Aston Sylvester Wood, Kingston,  
Jamaica, West Indies

B.S. '59, The Agricultural and Technical College of North Carolina. Major: Dairy Husbandry. Minor: Dairy Industries. Thesis: Nitrofurans in Infant Dairy Calf Diets.

Thomas Wendell Wood, St. Louis,  
Mo.

B.A. '52, University of Washington (St. Louis). Major: Physics. Minor: Mathematics. Thesis: The Diffusion of Hydrogen through Palladium.

Gregory Greenleaf Young, Minneapolis

B.A. '59, University of Minnesota. Field of Concentration: Biostatistics.

## Master of Science in Aeronautical Engineering

Ishwar Chandra Bhateley, Agra,  
India

B.Sc. '52, St. John's College (India); M.Sc. '55, Agra University. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Dynamics of the Opening of Reefed Parachutes.

Theodore Barton Nickson, Tracy

B.Sc. '61, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Ivan Wallace Russell, Redwood Falls

B.S. '59, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: An Analysis of the Drag of a Rotating Parachute.

## Master of Science in Agricultural Engineering

Warren Quentin Dahlin, New  
Brighton

B.Ag.E. '52, University of Minnesota. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: A Study of Seepage Into Sub Surface Drains by the Hydraulic and Electric Analog Methods.

## Master of Science in Chemical Engineering

Neville Blakemore, Jr., Louisville, Ky.

B.S.E. *cum laude* '60, Princeton University. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Optimal Control of Batch Reactors.

Louis Spencer Cove, Chicago, Ill.

B.S. in Ch.Eng. '59, Illinois Institute of Technology. Major: Chemical Engineering. Minor: Mathematics. Thesis: Influence of Mass Transfer on Coalescence Frequencies in Agitated Liquid-Liquid Systems.

Don Willis Hendrickson, Minneapolis

B.S. with distinction '59, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Rheological Studies on Cell Suspensions.

## Master of Science in Civil Engineering

Chia-Lun Hu, Taipei, Taiwan, China

B.S. '58, National Taiwan University. Field of Concentration: Civil Engineering.

Chen Hong Lee, Chiayi, Taiwan,  
China

B.S. '56, Taiwan University. Field of Concentration: Civil Engineering.

Ching-Lan Liu, Miao-Li, Taiwan

B.S. '57, Taiwan Provincial Cheng-Kung University. Field of Concentration: Civil Engineering.

Gaurikant Mishra, Azamgarh, India

B.Sc. '43, University of Allahabad; C.E. (Hons.) '45, Roorkee University. Major: Civil Engineering (Hydromechanics). Minor: Civil Engineering (Soils Mechanics). Thesis: Pressure Distribution Under Hydraulic Structures on Permeable Foundations.

Dharmo Tahir-Ramani, New Delhi,  
India

B.Tech.(Hons.) '56, Indian Institute of Technology. Field of Concentration: Civil Engineering.

## Master of Science in Dentistry

Robert Upham Spear, Minneapolis  
B.A. '50, D.D.S. '54, University of Minnesota.  
Major: Dentistry. Minor: Anatomy. Thesis:  
Some Effects of Irradiation on the Formation  
of the Secondary Palate in Mice.

Dan Edward Tolman, Omaha, Neb.  
B.S.B.A. '53, B.S.D. '57, D.D.S. '57, Univer-  
sity of Nebraska. Major: Dentistry. Minor:  
Pathology. Thesis: Nerve Endings in Gingival  
Tissue.

## Master of Science in Dermatology

John Robert West, Pleasant Grove,  
Utah

B.A. '52, M.D. '55, Stanford University. Ma-  
jor: Dermatology. Minor: Pathology. Thesis:  
Atopic Dermatitis and Hypnosis: An Investi-  
gation of Physiologic Stigmata Before, Dur-  
ing and After Hypnosis.

## Master of Science in Electrical Engineering

Donald Bruce Armstrong, Minneapolis  
B.S. with distinction '59, University of Min-  
nesota. Major: Electrical Engineering. Minor:  
Mathematics. Thesis: Wave Guide Perturba-  
tion Technique for the Measurement of Micro-  
wave Conductivity and Permittivity of Thin  
Semiconductor Samples.

Floyd Olaf Arntz, Excelsior

B.S. with high distinction '59, University of  
Minnesota. Major: Electrical Engineering.  
Minor: Mathematics. Thesis: Secondary Emis-  
sion Properties of Thin Unbacked Films of  
Magnesium Oxide.

Richard Dudley Baertsch, North  
Branch

B.E.E. with distinction '59, University of  
Minnesota. Major: Electrical Engineering.  
Minor: Mathematics. Thesis: An Investigation  
of Transistor Characteristics at Unusually Low  
Currents.

Paul Jerome Besser, Minneapolis

B.E.E. with high distinction '58, University of  
Minnesota. Major: Electrical Engineering.  
Minor: Mathematics. Thesis: Magnetization  
Reversal in Thin Magnetic Films with Annular  
Uniaxially-Magnetized Domains.

William Walter Chorske, Los Altos  
Hills, Calif.

B.E.E. '59, University of Minnesota. Field  
of Concentration: Electrical Engineering.

Dong Hak Chayung, Seoul, Korea

B.S. '59, Seoul National University. Field of  
Concentration: Electrical Engineering.

Linus Francis Cordes, Montgomery

B.S. with high distinction '59, University of  
Minnesota. Major: Electrical Engineering.  
Minor: Mathematics. Thesis: The Effect of  
Sodium Overlayers on the Photoemission from  
Germanium.

William Bernard Hagen, St. Paul

B.S. with distinction '59, University of Min-  
nesota. Major: Electrical Engineering. Minor:  
Mathematics. Thesis: A Study of the Para-  
meter Tracking Problem.

Chin-Hsiu Huang, China

B.S. '52, National Taiwan University. Major:  
Electrical Engineering. Minor: Mathematics.  
Thesis: Noise in an Electrodeless Gas Dis-  
charge.

Wayne Charles Hume, Minneapolis

B.E.E. with distinction '59, University of Min-  
nesota. Major: Electrical Engineering. Minor:  
Mathematics. Thesis: Several Effects of Elec-  
tron Bombardment on Magnesium Oxide Crys-  
tals.

Garold Leonard Kane, Minneapolis

B.S. with distinction '56, University of Min-  
nesota. Major: Electrical Engineering. Minor:  
Mathematics. Thesis: An Introduction to New  
Theories of Relativistic Mechanics and Electro-  
dynamics.

Guss Lawrence Krake, Minneapolis  
B.S. '59, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Seebeck Noise and Thermo Electric Effects in Bulk Oxide Cathode Material.

Mangalore Damodar Pai, Mangalore,  
India

B.S. '54, University of Madras; D.I.I.S. '57, D.I.I.S. '58, Indian Institute of Science. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise Properties of Tellurium Crystals in the Frequency Range 1 KC/S to 8 MC/S.

Paul William Palmberg, Valley  
Springs, S.D.

B.S. with high distinction '59, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Effect of Sodium Overlayers on the Photocmission From Silicon.

Chuck Yi Wong, Hong Kong, China  
B.E. '48, National Central University (China). Major: Electrical Engineering. Minor: Mathematics. Thesis: Measurement of Carrier Mobility on Germanium by Microwave Faraday Effect.

## Master of Science in Industrial Engineering

Jerry A. Katz, Minneapolis

B.S. with distinction '59, University of Minnesota. Field of Concentration: Industrial Engineering.

## Master of Science in Mechanical Engineering

Russell Allen Billings, Rochester

B.S.M.E. with distinction '58, University of Minnesota. Field of Concentration: Mechanical Engineering.

Lawrence Steve Jurewicz, Beausejour,  
Manitoba, Canada

B.Sc.(M.E.) '58, University of Manitoba. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Transpiration Cooling of a Cylinder in Cross Flow With Helium Injection.

Wolodymyr J. Minkowycz, Minneapolis

B.S. with distinction '58, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Turbulent Flow and Heat Transfer in Tubes Under Slip Flow Conditions.

Halbert Louis Mork, Edina

B.S. with high distinction '60, University of Minnesota. Field of Concentration: Mechanical Engineering.

Myron Eugene Snesrud, Rochester

B.S. '56, Iowa State College. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Determination of Tension Fatigue Characteristics of Mild Steel Under Impact Loading.

## Master of Science in Medicine

Edward John Walter Bowie, Rochester

B.M.,B.Ch. '52, Oxford University. Major: Medicine. Minor: Hematology. Thesis: The Anemia of Leukemia: Study of Erythrokinetics using Iron<sup>59</sup> and Chromium<sup>51</sup>.

Robert Charles Brown, Rochester

M.D. '55, Tufts University. Major: Medicine. Minor: Hematology. Thesis: The Study of Platelet Kinetics: A Practical Method of Labeling Utilizing Chromium<sup>51</sup>.

Howard Duncan, Sydney, Australia  
M.D. '53, Sydney University. Major: Medicine.  
Minor: Physiology. Thesis: The Effect of Elevated Plasma Urate Levels on the Kidney.

Robert Lloyd Francis, Inglewood, Calif.  
M.D. '57, University of Southern California. Major: Medicine. Minor: Pathology. Thesis: A Clinicopathologic Study of Patients with and without Angina Pectoris Preceding Initial Myocardial Infarction.

Thomas Edwin Godfrey, Rochester  
M.D. '57, College of Medical Evangelists. Major: Medicine. Minor: Pathology. Thesis: Gastrointestinal Lesion in Polymyositis—A Pathologic Study.

David Wallace Ingram, Belfast, Ireland  
M.B.,B.Ch.,B.A.O. '50, Queen's University. Major: Medicine. Minor: Hematology. Thesis: Monocytic Leukemia.

Douglas Brown McGill, New York, N.Y.  
M.D. '55, Tufts University. Major: Medicine. Minor: Physiology. Thesis: Bilirubin Conjugates in Liver Disease.

Charles DuWayne Schmidt, Salt Lake City, Utah  
M.D. '54, University of Utah. Major: Medicine. Minor: Physiology. Thesis: Cinerentgenographic Study of the Ventilatory Motion of the Ribs, Diaphragm, and the Tracheobronchial Tree of the Cat.

## Master of Science in Orthopedic Surgery

James Bannerman Troup, Aberdeen, Scotland

M.B.,Ch.B. '51, Aberdeen University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: The Significance of Benign Giant Cells in Osteogenic Sarcoma.

## Master of Science in Otolaryngology

James Adrian Donaldson, Iowa City, Iowa

B.A. *cum laude* '50, B.S. '52, M.D. '54, University of Minnesota. Major: Otolaryngology. Minor: Bacteriology. Thesis: Unilateral Conductive Hearing Loss in the Absence of Middle Ear Inflammation.

## Master of Science in Pediatrics

Reza Gharib, Shiraz, Iran

M.D. '54, University of Tehran. Major: Pediatrics. Minor: Physiology. Thesis: Total Anomalous Pulmonary Venous Connection Pathologic, Clinical and Hemodynamic Studies.

## Master of Science in Plastic Surgery

Eleanor Marie Kohn, Tulare, Calif.

M.D. '55, Women's Medical College of Pennsylvania. Major: Plastic Surgery. Minor: Pathology. Thesis: Neoplasms of the Palate.

## Master of Science in Radiology

David Fulton Reese, New York, N.Y.  
M.D. '55, New York Medical College. Major: Radiology. Minor: Pathology. Thesis: Giant Hypertrophy of the Gastric Mucosa: A Correlation of the Radiographic, Pathologic and Clinical Findings.

Bernard Turcotte, Quebec City,  
Quebec, Canada

M.D. '56, Laval University. Major: Radiology. Minor: Pathology. Thesis: Chondromyxoid Fibroma of Bone.

## Master of Science in Surgery

Richard Allison DeWall, Minneapolis  
M.D. '53, University of Minnesota. Major: Surgery. Minor: Physiology. Thesis: The Helical Reservoir Bubble Oxygenator for Use in Open Intracardiac Surgery.

John Corliss Richards, Rochester  
M.D. '56, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: Squamous Cell Carcinoma of the Anus, Anal Canal and Rectum.

Robert William Mayo Frater, Cape  
Town, South Africa

M.D. '52, University of Cape Town. Major: Surgery. Minor: Pathology. Thesis: Mitral Valve Prostheses.

Po Myat Ya, Rangoon, Burma

M.B.,B.S. '49, Rangoon University. Major: Surgery. Minor: Pathology. Thesis: Experimental Evaluation of a Method of Interstitial Irradiation by Radioisotope Tagged Microspheres Introduced Intra-Arterially.

Robert Allen Harp, Silsbee, Tex.

M.D. '54, University of Texas. Major: Surgery. Minor: Pathology. Thesis: Villous Tumors of the Colon.

## Certificate of Specialist in Education

Willis Ashley Boynton, Robbinsdale

B.S. '48, Mankato State College; M.A. '55, University of Minnesota. Field: Educational Administration.

## Doctor of Philosophy

Louis John Adolphsen, Woodstock,  
Ill.

B.A. '39, Cornell College; M.A. '57, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparison of the Effectiveness of Selected Observational Procedures in Developing Teacher Perception. Major Adviser: Prof. R. J. Keller.

Dwight Lyman Anderson, Dassel

B.A. '57, M.S. '59, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Studies on Actinophage. Major Adviser: Prof. S. G. Bradley.

Lois Dorothy Anderson, Alexandria

B.S. with high distinction '49, M.A. '54, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: Student-Faculty Perceptions of Educational Environments in Minnesota Schools of Nursing. Major Advisers: Profs. C. G. Wrenn and R. E. Eckert.

Arthur John Arrowood, St. Paul

B.A. *summa cum laude* '57, University of Minnesota. Major: Psychology. Minors: Sociology and Anthropology. Thesis: Some Effects on Productivity of Justified and Unjustified Levels of Reward under Public and Private Conditions. Major Adviser: Prof. Ben Willerman.

John Frederick Brandts, Celina, Ohio

B.A. *summa cum laude* '56, Miami University. Major: Physical Chemistry. Minor: Mathematics. Thesis: The Reversible Thermal Denaturation of Chymotrypsinogen. Major Adviser: Prof. R. W. Lumry.

Robert Warren Campbell, Rochester

B.A. '57, Dartmouth College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Reactions of Dimethyl (3-Indole)Fumarate with Dienophiles. Major Adviser: Prof. W. E. Noland.

Gerhard Malling Cartford, Seguin, Tex.

B.M. *magna cum laude* '48, St. Olaf College; M.S.M. '50, Union Theological Seminary. Major: Music. Minor: Scandinavian. Thesis: Music in the Norwegian Lutheran Church: A Study of Its Development in Norway and Its Transfer to America, 1825-1917. Major Adviser: Prof. Johannes Riedel.

Kim Yong Chang, Seoul, Korea

M.D. '53, Seoul National University. Major: Physiological Chemistry. Minor: Physical Chemistry. Thesis: Studies on Fine Structure of Nucleic Acids and Nucleoproteins by Ion Binding Techniques. Major Adviser: Prof. C. W. Carr.

Byung Ryul Cho, Seoul, Korea

D.V.M. '50, Seoul National University; M.S. '59, University of Minnesota. Major: Veterinary Bacteriology. Minor: Public Health. Thesis: Studies on an Agglutinin in Normal Chicken Serum for Periodate-Treated Erythrocytes. Major Adviser: Prof. B. S. Pomeroy.

Leland Kenneth Dahle, Minneapolis

B.A. *cum laude* '50, St. Olaf College; M.S. '53, Purdue University. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Effects of Protein and Unsaturated Fatty Acids in Autoxidation Phenomena. Major Adviser: Prof. R. T. Holman.

Lillian Scholljegerdes Davies, Waseca

B.S. '44, Mankato State College; M.A. '50, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Some Relationships between Attitudes, Personality Characteristics, and Verbal Behavior of Selected Teachers. Major Advisers: Profs. R. J. Keller and N. A. Flanders.

James Willis Davis, St. Cloud

B.A. '41, Valley City Teachers' College; M.A. '49, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Presidential Primary, 1928-1960. Major Adviser: Prof. C. H. McLaughlin.

Vernon Edwin Denny, Houston, Tex.

B.Ch.E. with high distinction '53, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Some Effects of Surface Micro-Geometry on Natural Convection and Pool Boiling Heat Transfer to Saturated Carbon Tetrachloride. Major Adviser: Prof. G. W. Preckshot.

Hassan Salama Elfiky, Alexandria, Egypt

B.A. '47, Alexandria University; M.A. '59, University of Minnesota. Major: Education. Minor: History and Philosophy of Education. Thesis: A History of Teacher In-Service Education in the United States: With Recommendations for Egyptian Education. Major Adviser: Prof. G. H. McCune.

Arthur McAuley Elliot, Minneapolis

B.S. '53, M.S. '60, University of Minnesota. Major: Plant Pathology. Minor: Entomology. Thesis: Ecological Studies of *Pseudoplea trifolii*. Major Advisers: Profs. R. D. Willcoxson and J. J. Christensen.

Richard Bruce Erno, Boyne City, Mich.

B.A. '50, Michigan State College; M.A. '51, University of Denver. Major: American Studies. Thesis: Dominant Images of the Negro in the Ante-Bellum South. Major Adviser: Prof. J. J. Kwiat.

Geraldine Mary Farmer, Edmonton,  
Alberta, Canada

B.Ed. '48, University of Alberta; M.A. '55, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: An Experiment to Test the Validity of a Measure of the Difficulty of Shorthand Dictation Materials. Major Adviser: Prof. R. G. Price.

Leroy Malvin Fingerson, Chatfield

B.S. with high distinction '54, M.S. '55, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Heat Flux Probe for Transient Measurements in High Temperature Gases. Major Advisers: Profs. P. L. Blackshear, Jr., and R. C. Jordan.

Richard Allan Frederiksen, Belview

B.S. '55, M.S. '57, University of Minnesota. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Studies on the Transmission, Effect, and Control of Two Viruses on *Linum usitatissimum* L. Major Adviser: Prof. M. F. Kernkamp.

Martin Freundlich, Brooklyn, N.Y.

B.A. '55, Brooklyn College; M.S. '57, Long Island University. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Physiological Control of Tryptophan Degradation and Synthesis in *Escherichia coli*. Major Adviser: Prof. H. C. Lichstein.

Donald Myles Gillmor, Grand Forks,  
N.D.

B.A. '49, University of Manitoba; M.A. '50, University of Minnesota. Major: Journalism. Minor: Political Science. Thesis: Trial by Newspaper: The Constitutional Conflict Between Free Press and Fair Trial in English and American Law. Major Adviser: Prof. J. E. Gerald.

Chester Anthony Glomski, Detroit,  
Mich.

B.S. '51, Detroit Institute of Technology; M.S. '53, Wayne State University. Major: Anatomy. Minor: Pathology. Thesis: Macromolecular Splenomegaly in the Rat: A Histologic Study with Special Reference to Tissue Iron Distribution in the Normal and Iron Loaded Animal. Major Adviser: Dr. R. D. Sundberg.

Philip Bruce Gough, St. Cloud

B.A. '55, M.A. '57, University of Minnesota. Major: Psychology. Minor: Philosophy. Thesis: The Study of Mediation in Animals. Major Adviser: Prof. J. J. Jenkins.

Melvin G. Greckley, Carnegie, Okla.

B.S. '54, M.S. '57, Oklahoma State University. Major: Animal Husbandry. Minor: Physiological Chemistry. Thesis: Protein-Energy Interrelationships in Diets of Growing Swine. Major Adviser: Prof. R. J. Meade.

John Russell Hawkinson, Rochester

B.S. '40, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: A Study of the Construct Validity of Barron's Ego Strength Scale with a State Mental Hospital Population. Major Adviser: Prof. S. R. Hathaway.

Lyle Sheldon Hoffman, Los Angeles,  
Calif.

B.A. *magna cum laude* '48, M.A. '52, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Some Determinants of Difficulty in the Trouble Shooting of Symbolic Data Flow Systems. Major Adviser: Prof. J. J. Jenkins.

Louis Henry Hoover, Winona

B.E. '36, Winona State College; M.S. '39, Kansas State Teachers College (Pittsburgh). Major: Educational Administration. Minor: Educational Psychology. Thesis: Characteristics of Public Junior College Preparatory Graduates, A Longitudinal Analysis of Graduates and Subsequent Transfers. Major Adviser: Prof. R. J. Keller.

John Quinn Imholte, Morris

B.A. '52, Washington and Lee University; M.A. '57, University of Minnesota. Major: History. Minor: Political Science. Thesis: The First Minnesota Infantry Regiment, 1861-1864. Major Adviser: Prof. D. W. Noble.

Duane Alan Jackman, River Falls,  
Wis.

B.S. '41, Wisconsin State College (River Falls); M.A. '47, University of Minnesota. Major: Education. Minor: Industrial Education. Thesis: Industrial Arts Competencies in Training Occupational Therapists. Major Adviser: Prof. W. J. Micheels.

Milton Durwood Jacobson, Minneapolis

B.S. '51, University of Minnesota. Major: Education. Minors: Physics and Chemistry. Thesis: Reading Difficulty of Physics and Chemistry Textbooks in Use in Minnesota. Major Advisers: Profs. R. O. Collier and C. H. Boeck.

Saroj Kant Jha, India

G.B.V.C. '51, Bihar Veterinary College; M.S. '59, Michigan State University. Major: Veterinary Medicine. Minor: Pharmacology. Thesis: Effects of Preanesthetic Medication with Morphine Sulfate, Oxymorphone Hydrochloride and Atropine Sulfate on the Anesthetic Dose and Lethal Dose of Pentobarbital Sodium in the Dog: Experimental and Clinical Study. Major Advisers: Profs. H. H. Hoyt and J. P. Arnold.

Edward Jimenez-Pabon, Rosemount

B.S. *cum laude* '45, University of Puerto Rico; M.D. '49, Loyola University. Major: Pharmacology. Minor: Neurology. Thesis: Studies on the Effects of Some Halogenated Hydrocarbons on the Central Nervous System of Cats. Major Adviser: Prof. H. N. Wright.

Clarence Dale Johnson, Alexandria

B.A. *cum laude* '50, M.A. '52, University of Minnesota. Major: Sociology. Minor: Statistics. Thesis: Priest, Prophet, and Professional Man: A Study of Religious Leadership in a Small Community. Major Adviser: Prof. D. A. Martindale.

Richard Wilbur Johnson, Big Lake

B.A. *cum laude* '56, Princeton University; M.A. '59, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Relationship Between Measured Interests and Differential Academic Achievement. Major Adviser: Prof. L. H. Lofquist.

Jacques Richard Jorgensen, Stevensville, Mich.

B.S. with honor '52, Michigan College of Mining and Technology; M.S. '57, Michigan State University. Major: Soils. Minor: Forestry. Thesis: Studies on the Nature and Occurrence of Organic Acids in Soils. Major Adviser: Prof. E. L. Schmidt.

Ralph Ottmar Kehle, Los Angeles, Calif.

B.S. '56, M.S. '57, California Institute of Technology. Major: Geology. Minor: Mechanics and Materials. Thesis: Analysis of the Deformation of the Ross Ice Shelf, Antarctica. Major Adviser: Prof. J. C. Craddock.

Bill Wade Kennedy, Durant, Okla.

B.S. in Ed. '51, Southeastern State College; M.S. '55, Oklahoma State University. Major: Plant Pathology. Minor: Botany. Thesis: Studies on Bacterial Angular Leafspot, a New Disease of Strawberry in Minnesota. Major Adviser: Prof. T. H. King.

George Edward Kenny, New England, N.D.

B.S. '52, Fordham University; M.S. '57, University of North Dakota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: The Effect of Pleuropneumonia-like-organisms (Mycoplasma) on Growth of Mammalian Cells *in vitro*. Major Adviser: Prof. L. C. McLaren.

Charles William Kern, Germantown, Ohio

B.S. '57, Carnegie Institute of Technology. Major: Physical Chemistry. Minor: Physics. Thesis: Nuclear Magnetic Shielding in Molecules. Major Advisers: Profs. W. N. Lipscomb and R. S. Livingston.

Lothar Karl Klein, Minneapolis

B.A. '54, M.A. '57, University of Minnesota. Major: Music. Minor: Speech. Thesis: Preface to Symmetries for Orchestra. Major Adviser: Prof. P. M. Oberg.

Donald Holm Kobe, Austin, Tex.

B.S. '56, University of Texas; M.S. '59, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Application of Green's Functions to the Quasi-Particle Interactions in a Many Fermion System. Major Adviser: Prof. W. B. Cheston.

Albion Jerome Kromminga, Pease

B.S. '55, St. Cloud State College. Major: Physics. Minor: Mathematics. Thesis: The Many-Boson Problem. Major Adviser: Prof. A. M. Bolsterli.

Roger Gayle Lambert, Minneapolis

B.S. '53, M.S. '57, University of Minnesota. Major: Agricultural Botany. Minor: Botany. Thesis: Physiological Interactions Between *Avena sativa* and *Medicago sativa*. Major Advisers: Profs. A. J. Linck and Thor Kommedahl.

Gordon Cornelius Marten, Wausau, Wis.

B.S. '57, University of Wisconsin; M.S. '59, University of Minnesota. Major: Agronomy. Minor: Agricultural Botany. Thesis: An Investigation of the Chromogen-Chromic Oxide and Nitrogen-Chromic Oxide Indicator and the TDN Requirement Methods in Evaluating Pasture Forages for Dairy Cows. Major Advisers: Profs. A. R. Schmid and J. D. Donker.

Paul Edward Merz, Springfield, Mo.

B.S. '54, Kansas State College; M.A. '55, University of Notre Dame. Major: Economics. Minor: History. Thesis: The Income Tax Treatment of Owner-Occupied Housing. Major Adviser: Prof. O. H. Brownlee.

Kwang-Shik Min, Seoul, Korea

B.S. '51, Seoul National University; M.S. '59, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Moderation of Neutrons in Non-Multiplying Infinite Homogeneous Media. Major Adviser: Prof. E. L. Hill.

Lal Mohan Mukherjee, Calcutta,  
India

B.S. (Hons.) '49, M.S. '51, University of Calcutta. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Equilibrium Studies in Ethylenediamine. Major Adviser: Prof. Stanley Bruckenstein.

William Charles Needler, Evansville,  
Ind.

B.S. '54, Butler University. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Electron Spin Resonance Studies of Thianthrene-Related Free Radicals. Major Adviser: Prof. J. E. Wertz.

Donald Carl Nelson, Minneapolis

B.S. '53, University of Minnesota. Major: Horticulture. Minor: Agricultural Botany. Thesis: A Study of Plant Competition Between Peas (*Pisum sativum* L.), and Two Weeds, Mustard (*Brassica hirta* Monech) and Foxtail Millet, [*Setaria italica* (L.) Beauv.]. Major Adviser: Prof. R. E. Nylund.

Elton Glen Nelson, Bethesda, Md.

B.S. '37, M.S. '46, Oregon State College. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance in Kenaf as Related to Selection of Inbred Lines for Composite Varieties. Major Adviser: Prof. W. M. Myers.

John Howard Nelson, Chicago, Ill.

B.S. '52, M.S. '53, Purdue University. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: The Nature of Wheat Lipids and Their Role in Flour Deterioration. Major Adviser: Prof. R. L. Glass.

Theodore Murray Nelson, Waseca

B.S. '49, M.A. '57, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: The Occupational Status of Minnesota Farm Male High School Graduates. Major Advisers: Profs. W. E. Dugan and M. J. Peterson.

Charles Neil Newstrom, Minneapolis

B.A. '50, M.A. '51, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: An Outcome Study of Emotionally Disturbed and Physically Disabled Veterans Rehabilitated at the Professional Level of Education. Major Adviser: Prof. L. H. Lofquist.

John Davis Palmer, Minneapolis

B.S. '54, M.S. '55, University of Colorado. Major: Pharmacology. Minor: Pathology. Thesis: The Treatment of Experimental Acute Hemorrhagic Hypotension with Mixtures of Pressor Amines. Major Adviser: Dr. R. N. Bieter.

Josephine Durkee Paterek, Minneapolis

B.S. '37, University of Wisconsin; M.A. '54, University of Minnesota. Major: Speech and Theater Arts. Minors: English and Scandinavian. Thesis: A Survey of Costuming on the New York Commercial Stage: 1914-1934. Major Adviser: Prof. K. L. Graham.

Dorothy Jeanette Pettit, Mason City,  
Iowa

B.S. with high distinction '45, M.A. '49, University of Minnesota. Major: Education. Minor: English. Thesis: A Study of the Qualities of Literary Excellence Which Characterize Selected Fiction for Younger Adolescents. Major Adviser: Prof. S. B. Keger.

John William Pulleyn, Jr., Akron,  
Ohio

B.A. '46, M.A. '50, University of Minnesota. Major: French. Minor: Linguistics. Thesis: The Political Ideas of Flaubert. Major Adviser: Prof. E. H. Falk.

Elizabeth Jane McLaughlin Ring, St.  
Paul

B.A. *magna cum laude* '57, University of Minnesota. Major: Child Development. Minor: Psychology. Thesis: The Relationship of Paired-Associate Learning and Retention in Retarded and Normal Children to Length of Anticipation Interval and Selected Ability Measures. Major Advisers: Profs. D. S. Palermo and J. G. Hurst.

Philip William Ruehl, Menomonie,  
Wis.

B.S. '41, M.S. '48, Stout State College. Major: Education. Minor: Industrial Education. Thesis: An Experiment in the Use of An Auto Instructional Aid in Teaching Electricity. Major Adviser: Prof. W. J. Micheels.

Roy Everett Sample, Spring Valley

B.S. '53, M.Ed. '55, University of Minnesota. Major: Education. Minor: Art. Thesis: A Comparison of the Effects of Two Teaching Methods on General Creativity in Teacher Preparation for Elementary Art. Major Adviser: Prof. C. A. Gayne.

Donald Kenneth Scharff, Bozeman, Mont.

B.S. '47, M.S. '50, Montana State College. Major: Entomology. Minor: Botany. Thesis: Ecology of the Migratory Grasshopper (*Melanoplus bilituratus*) on Montana Grasslands. Major Adviser: Prof. A. C. Hodson.

Peter Alfred Schoeck, Minneapolis

Graduate '52, University of Karlsruhe. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Investigation of the Energy Transfer to the Anode of High Intensity Arcs in Argon. Major Adviser: Prof. E. R. G. Eckert.

George John Schroepfer, Jr., St. Paul

B.S. '55, M.D. '57, University of Minnesota. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Studies on the Conversion of Zymosterol to Cholesterol in the Rat. Major Adviser: Prof. I. D. Frantz.

Sister Mary Lucilda O'Connor, Dubuque, Iowa

B.A. *magna cum laude* '40, Clarke College; M.A. '48, Loyola University. Major: Spanish. Minor: German. Thesis: The Romanticism of Ricardo León. Major Adviser: Prof. W. T. Pattison.

Wesley Sherran Sommers, Menomonie, Wis.

B.S.E. '50, M.A. '55, University of Michigan. Major: Education. Minor: Curriculum and Instruction. Thesis: The Influence of Selected Teaching Methods on the Development of Creative Thinking. Major Adviser: Prof. W. J. Micheels.

Dionysios Elias Speliotis, Kalamata, Greece

B.S. '55, University of Rhode Island; M.S. in E.E. '57, E.E. '58, Massachusetts Institute of Technology. Major: Electrical Engineering. Minor: Physics. Thesis: A Cryomagnetic Study of Iron Oxides. Major Adviser: Prof. A. H. Morrish.

Douglas C. Stenerson, Winona

B.A. *magna cum laude* '42, I.A. '43, Harvard University; M.A. '47, University of Minnesota. Major: American Studies. Thesis: A Genetic History of the Prejudices of H. L. Mencken, 1880-1926. Major Adviser: Prof. Bernard Bowron.

Ronald Floyd Stinnett, Middletown, N.Y.

B.S. *magna cum laude* '52, State University of New York; M.A. '56, University of Minnesota. Major: Speech. Minor: Political Science. Thesis: A Pentadic Approach to Rhetorical Criticism. Major Adviser: Prof. D. K. Smith.

Theodore Rudolph Storlie, Minneapolis

B.S. with distinction '54, M.A. '58, University of Minnesota. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: Selected Characteristics of Teachers Whose Verbal Behavior is Influenced by an In-service Course in Interaction Analysis. Major Adviser: Prof. N. A. Flanders.

Charles Frederick Stroebel III, Rochester

B.A. '61, University of Minnesota. Major: Psychology. Minor: Biostatistics. Thesis: Differential Effects of Adrenal Demedullation on Acquisition and Extinction of a Passive Avoidance (Punishment) and a Conditioned Emotional Response in the Albino Rat. Major Adviser: Prof. G. T. Heistad.

Ethan Andrew Tange Svendsen, Terre Haute, Ind.

B.A. '41, Dana College; M.A. '47, University of Minnesota. Major: Education. Minor: Industrial Education. Thesis: The Matrix of a Philosophy for Industrial Arts Education. Major Adviser: Prof. W. J. Micheels.

Judith Rose Tennant, Miami, Fla.

B.A. '40, Ohio Wesleyan University; M.S. '57, University of Minnesota. Major: Bacteriology. Minor: Cancer Biology. Thesis: Studies on Mouse Leukemia: The Demonstration and Propagation of a New Murine Lymphoid Leukemia Virus. Major Adviser: Prof. L. C. McLaren.

William Goodrich Tomek, Table  
Rock, Neb.

B.Sc. '56, M.A. '57, University of Nebraska. Major: Agricultural Economics. Minor: Economics. Thesis: The Theory and Measurement of Long-run Demand (with Special Emphasis on the Demand for Food Products). Major Adviser: Prof. E. W. Learn.

George William Wermers, Lawrence,  
Mass.

B.A. '53, Merrimack College; M.S. '55, Boston College. Major: Physiology. Minor: Physiological Chemistry. Thesis: Incorporation of Glucose-1-C<sup>14</sup> and Fructose-U-C<sup>14</sup> into Glycogen of Rat Diaphragm Muscle. Major Adviser: Dr. H. M. Cavert.

George Albert White, Carthage, Ill.

B.S. '57, M.S. '58, University of Illinois. Majors: Agronomy and Agricultural Botany. Minor: Soils. Thesis: Influence of Certain Forage Grasses on the Growth and Yield of the Following Crop. Major Advisers: Profs. A. R. Schmid and Thor Kommedahl.

Francis Aloysius Wood, Perryville,  
Mo.

B.S.F. '55, M.A. '56, University of Missouri. Major: Plant Pathology. Minor: Botany. Thesis: A Study of the Epiphytology of Hypoxylon Canker of Aspen. Major Adviser: Prof. D. W. French.

## Doctor of Philosophy in Medicine

Herman Richard Casdorff, Rochester  
M.D. '53, Indiana University. Major: Medicine. Minor: Physiology. Thesis: Studies of Cholesterol Metabolism: Relationships of the Body Cholesterol Pool Size, Cholesterol Turnover, and Hepatic Synthetic Rate of Cholesterol to the Concentration of Plasma Cholesterol in the Dog. Major Adviser: Dr. C. A. Owen.

Robert Grangaard Rossing, San Antonio, Tex.

B.S. '45, M.D. '49, University of Minnesota. Major: Medicine. Minor: Physiology. Thesis: Airflow Resistance in the Lower Airway of the Dog. Major Adviser: Dr. C. J. Watson.

## Doctor of Philosophy in Surgery

Ara Vahan Doumanian, Beirut,  
Lebanon

M.D. '53, American University of Beirut; M.S. '60, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: The Effect of Femoral Arteriovenous Fistula on Experimental Deep Venous Insufficiency. Major Adviser: Dr. J. H. Grindlay.

Peter Alexander Salmon, Victoria,  
British Columbia, Canada

B.S. '53, M.D. '55, University of Washington; M.S. '61, University of Minnesota. Major: Surgery. Minor: Physiology. Thesis: The Treatment of Massive Upper Gastrointestinal Hemorrhage by Direct Perfusion of the Stomach with Hypothermic Solutions: Investigations into the Effect of Hypothermia on Bowel Motility, Gastric Emptying and the Function of the Pylorus. Major Adviser: Dr. O. H. Wangensteen.

## *Academic Costume*

On appropriate occasions, anyone with a college or university degree may wear academic costume consisting of a gown, a hood, and a cap. By observing the kind of academic costume a person wears, it is possible to know the name of the university from which he graduated, as well as the degree which he holds, and, in some cases, the field of his major interest as well.

The long, pointed sleeve of the gown indicates a Bachelor's degree; the long, closed sleeve with a slit near the upper part of the arm indicates a Master's degree; and the open sleeve marks a Doctor's degree. Bachelors' and Masters' gowns are black in color and are without any trimming. Generally, the Doctor's gown is black also, but some universities, particularly those abroad, prescribe such festive colors as red, crimson, or green. All Doctors' gowns have velvet trimming on the front facings and crossbars on the sleeves. This trimming may be black, or it may match the color of the edging of the hood and thus identify the profession or field of major interest of the wearer.

At a commencement it is quite proper to wear the gown—but not the hood—appropriate for the degree which is to be received. The only hoods worn at commencements are for degrees which have already been received. Thus only those students and faculty members who have already received college or university degrees wear hoods. Anyone who has a degree from the University of Minnesota may wear a hood decorated with a maroon chevron on gold background. The length and shape of the hood indicates whether the wearer has earned a Bachelor's, a Master's, or a Doctor's degree. The velvet edging on the hood indicates the field in which the degree was granted. For example, dark blue signifies Philosophy; light blue, Education; green, Medicine; lilac, Dentistry; orange, Engineering; russet, Forestry; drab, Business; olive green, Pharmacy; purple, Law; gray, Veterinary Medicine; golden yellow, Science; and white, Arts and Letters.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidates are honor students.

Caps, generally mortarboards with tassels, have significance, too. The Doctor's tassel may be black or gold. Masters' and Bachelors' tassels are black; but at University of Minnesota commencements—upon the authority of the University Senate Committee on Functions—candidates for the Bachelors' and Associates' degrees wear tassels which indicate their schools or colleges by color as follows:

(In the order of march)

General Extension Division .....	orange and drab
General College .....	crimson and white
College of Science, Literature, and the Arts .....	white
University College .....	old gold and white

Institute of Technology .....	orange
College of Agriculture, Forestry, and Home Economics .....	maize
College of Education .....	light blue
School of Business Administration .....	drab
College of Medical Sciences .....	green
Graduate School .....	black

But once the Bachelor's degree has been received and the commencement is over, the graduate, should he wear academic costume again, will wear only the black tassel as does the holder of the Master's degree. Similarly, he will not in the future wear the shoulder insignia as a part of his academic dress even if he is an honor graduate. All graduates of the University should remember that the academic dress at this University conforms to the rules of the Intercollegiate Bureau of Academic Costume. This means that Minnesota academic insignia may be easily secured anywhere in the world. And it is always worn proudly and with distinction—for ours is a great University.



# UNIVERSITY OF MINNESOTA

## *Senior Reception*

*December, 1961*

- The members of the graduating class, their families and friends, are invited to attend the Senior Reception immediately after the commencement exercises. The Reception will be held in the Main Ballroom of Coffman Memorial Union.
- Those in the receiving line will be President and Mrs. Wilson, Mr. Ronald Moe, President of the Coffman Union Board of Governors, and Mr. Thomas F. Olson, President of the Minnesota Student Association.
- Assisting in the Reception are members of the Union Board of Governors and its committees, and of the following honorary societies: Chimes, Grey Friars, Iron Wedge, Mortar Board, Phoenix, and Silver Spur. Santa Claus will be there, too.
- The University Men's Glee Club under the direction of Mr. Arthur Ward will provide musical entertainment for the occasion.
- Punch will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.