

THE
UNIVERSITY OF MINNESOTA

Announces Its

March Commencement

1959

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, MARCH 19

AT EIGHT-THIRTY O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Clarence E. Larson, Assistant Secretary

Mr. Laurence R. Lunden, Treasurer

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The Honorable George W. Lawson, St. Paul
Second Vice President

The Honorable James F. Bell, Minneapolis

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The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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 the 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 eighth 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 139,000 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 25,000 students on its Minneapolis, St. Paul, and Duluth 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 three 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 Twin City Area Educational Television Station KTCA-TV, 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 contribu-

tions have made it possible for the University to build the Masonic Memorial Hospital and are making it possible to construct Diehl Hall (which will house the biological-medical library and additional medical research facilities) and the Veterans of Foreign Wars Cancer Research Center.

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 1957 LEGISLATURE ACCEPTED, on behalf of the people of the state, the additional responsibilities which this anticipated enrollment involves. In addition to \$44,339,057 for general maintenance, the University received \$7,907,291 for University Hospitals; \$3,610,000 for special appropriations, including special extension and research activities; and \$16,530,518 for new buildings, land, and for the rehabilitation of existing buildings for the two years, 1957-58 and 1958-59.

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 1957-58 showed that the University received \$78,192,595.44 and spent \$78,196,960.26. This includes a total of \$13,137,045.97 received from student tuition and fees, hospital and other department receipts; \$1,412,790.67 from intercollegiate athletics; \$12,698,158.03 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 \$14,227,127.38 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, as well as from the Permanent University Fund derived from land set aside by the Federal Government, and the occupational tax on iron ore. Also, \$2,439,375.73 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$78,192,595.44 which the University received for 1957-58, \$34,278,097.66 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 candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University 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, SLA '60, carillonneur. Admission to the March commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

PRELUDE CONCERT: From 8:00 to 8:30 p.m., the University Concert Band Ensemble, Mr. Gale L. Sperry, Ph.D., Instructor in Music and Bandmaster, will play:

The Klaxon March	- - - - -	Henry Fillmore
Canzona	- - - - -	Peter Mennin
La Fiesta Mexicana	- - - - -	H. Owen Reed
Symphonic Songs for Band	- - - - -	Robert Russell Bennett
I. Serenade		
II. Spiritual		
III. Celebration		

PROCESSIONAL:

March and Procession of Bacchus	
From "Sylvia"	- - - - - Leo Delibes

ON THE STAGE: As candidates for degrees enter the Auditorium at 8:30 p.m., the curtain will be opened. Seated on the stage, left to right, are Professor Ralph L. Kitchell, D.V.M., Veterinary Anatomy, Marshal; Assistant Director Ralph H. Hopp, Ph.D., University Libraries, Marshal; Dean William T. S. Thorp, D.V.M., College of Veterinary Medicine; Colonel Dean M. Benson, USA, Professor of Military Science and Tactics; Recorder True E. Pettengill, M.S., Admissions and Records; Dean Horace T. Morse, Ph.D., General College; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean William B. Lockhart, S.J.D., Law School; Dean Walter W. Cook, Ph.D., College of Education; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; President Benjamin E. Mays, Ph.D., Morehouse College, Commencement Speaker; President James Lewis Morrill, LL.D., University of Minnesota; Vice President Malcolm M. Willey, Ph.D., Academic Administration; The Reverend Dean D. Knudsen, B.D., Adviser to Baptist students and staff members on the Minneapolis Campus of the University; Associate Dean John G. Darley, Ph.D., Graduate School; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Assistant Dean Martin L. Snoke, Ph.D., Assistant Dean of Students; Assistant Dean Russell M. Cooper, Ph.D., College of Science, Literature, and the Arts; Dean Austin A. Dowell, Ph.D., College of Agriculture, Forestry, and

Order of Events

Home Economics of the Institute of Agriculture; Assistant Dean Huntington Miller, LL.B., General Extension Division; Professor Ambert B. Hall, D.D.S., School of Dentistry; Professor Roy A. Schuessler, M.M., Music; Assistant Professor Roger E. Wilk, Ph.D., Education, 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 rockets' 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 Dean D. Knudsen.

SPEAKING FOR THE UNIVERSITY: President James Lewis Morrill.

COMMENCEMENT ADDRESS: President Benjamin E. Mays, Morehouse College, Atlanta, Georgia, "Life's Paradox."

CONFERRING OF ROTC CERTIFICATES: Vice President Willey will introduce Colonel Benson, who will present the candidates for commissions in the United States Army. The certificates of ROTC completion will be presented by President Morrill.

PRESENTATION OF CANDIDATES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Morrill the candidates for certificates and degrees. They are, in order of their introduction: Assistant Dean Miller for the General Extension Division; Dean Morse for the General College; Assistant Dean Cooper for the College of Science, Literature, and the Arts, and for University College; Dean Spilhaus for the Institute of Technology; Dean Dowell for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Cook for the College of Education; Dean Lockhart for the Law School; Dean Howard

Order of Events

for the College of Medical Sciences; Associate Dean Darley for the Graduate School.

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

PRESENTATION OF DIPLOMAS: With Assistant Dean Snoko presiding, all 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 Associate Dean Darley to President Morrill, who will confer the degrees.

"HAIL! MINNESOTA," the University's Alma Mater song. The audience and Professor Schuessler.

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.

RECESSIONAL: Mr. Sperry, the University Concert Band Ensemble.

Procession and Interlude - - - - - Frederick Miller

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 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, Ordnance Corps

Richard M. Brown, Hutchinson

Second Lieutenant, Quartermaster Corps

Lloyd F. Gracey, Jr., 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

Business Administration Certificate

Edker Henry Cherrier, St. Paul
Donald Herbert Lehman, Minneapolis
Charles William Masterman, St. Paul
Richard John McCarthy, Wayzata

Kenneth James Miller, Minneapolis
Donald Robert Sletkolen, Minneapolis
Richard Michael Sperle, St. Paul

General Engineering Certificate

Curtis Erland Anderson, Minneapolis
Jack Raymond Bartosh, Minneapolis
Theodore Ronald Bennett, Minneapolis
John William Christy, Minneapolis
Donald Joseph Conlin, Minneapolis

Byron Gale Kreuger, Minneapolis
Richard Lowell Larson, White Bear Lake
Ronald Erling Larson, Minneapolis
Robert Francis Manning, Brandon, Manitoba, Canada

Industrial Engineering Certificate

Daniel Charles Boe, Minneapolis

Clifford George Monnie, Minneapolis

GENERAL COLLEGE

Associate in Arts

Carlo Alfred Abrahamsen, St. Paul
Raymond Willmer Abrahamson, Jr.,
Minneapolis

Samuel Fredrick Anderson, Red Wing
Virgil Terrance Andrada, Minneapolis

Everett H. Benson, Anoka

Ralph Morris Birnberg, St. Paul

Marvin Ronald Burton, Minneapolis

Dwayne Arthur Carlson, Minneapolis

Kathryn Maye Carris, St. Paul

Michael John Chmielewski, Foley

Richard Jon Christensen, St. Paul

John Parker Coates, Minneapolis

Robert William Constant, Minne-
apolis

Paula Marilyn Cooper, Grand Forks,
N.D.

Ray Elmer Delk, St. Paul

Philip Jerome Dorholt, Minneapolis

James John Dunne, Minneapolis

Robert Lee Erlandson, Minneapolis

Orrin Hugh Finck, St. Paul

Donald Dennis Fitzgerald, St. Louis
Park

Richard Sommers French, St. Paul

James Stuart Froelke, St. Paul

Barry Irwin Glassman, St. Paul

Kenneth Stone Gold, Jr., Minneapolis

Delores A. Grosz, Minneapolis

Nicholas John Halesky, Minneapolis

Cecile Evon Hansing, Minneapolis

Charles Arthur Hearn, Jr., Minne-
apolis

John Howard Hedman, St. Paul

Patrick Stephan Helin, Excelsior

Carl Preston Herbert, Jr., Wayzata

William Lawrence Hyser, Minneapolis

Karl Vincent Irwin, St. Paul

Dennis Kingsley Johnson, Tracy

Raymond Ernest Joyner, Minneapolis
Donald Leonard Kirkeede, Minne-
apolis

Dennis Edward Larson, Minneapolis

John Claus Lindstrom, St. Paul

Roger Eugene Linnee, Montevideo

Jack Charles Loftus, Minneapolis

Owen Milton Mattson, St. Paul

Marvin Frank Metzen, New Ulm

John Ladislaus Miskowicz, Minne-
apolis

Kenneth William Moe, Minneapolis

Robert Duane Moe, Minneapolis

Paulene Alice Mullins, Correll

Darwin John Murphy, Minneapolis

Gerald Roy Nelson, Minneapolis

Beverly Ann Nettum, Minneapolis

James Harold Nordby, Edina

Vernon Eugene Opheim, Minneapolis

Francelyne Oppert, Minneapolis

Bernhard Leland Orfield, Minneapolis

Madeleine Parr, Excelsior

Wain Delsshon Pearce, Minneapolis

Michael David Plitman, Minneapolis

James Donald Pratt, Bloomington

Gene Allen Rahl, Augusta, Wis.

David Sherman Rosenberg, Minne-
apolis

Gerald John Ruder, Minneapolis

James Eugene Sadler, Minneapolis

Tom Morden Stark, Excelsior

Robert Lee Steinweg, Edina

Meredith James Stillings, Rochert

John Fleming Stszemp, Minneapolis

Robert LeRoy Sutliff, St. Paul

Jerry Paul Van Norman, Minneapolis

Warren Lee Vickers, Minneapolis

James Donald Woelm, Minneapolis

Elizabeth Ann Yambrick, St. Paul

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Anthony Aloysius Ackermann, St. Paul
Paul Christian Hanson, St. Paul
Marian Louise Hauck, St. Paul
Patricia Ann Johnson, Wheaton

Harold Roy Stevens, Minneapolis
Joan Coil Thelin, St. Paul
Raymond R. Wormsbecker, Minneapolis

Bachelor of Arts

Cedric Adams, Jr., Minneapolis
Stephen Richard Alderson, Minneapolis
Richard Newell Barnard, Minneapolis
John Orville Barnes, A.L.A., Mora
Thomas Walter Bastien, Minneapolis
George Oliver Batzli, Excelsior
Nancy Elizabeth Bauer, St. Paul
Consuello Dell Beggs, Minneapolis
Richard Fred Bellman, Minneapolis,
CUM LAUDE
Robert Carlos Bircher, Minneapolis
Georgia Bell Bowers, Fergus Falls,
MAGNA CUM LAUDE
Luther Morris Bradley, Van Alstyne,
Tex.
Franklin Wagner Briese, St. Paul,
CUM LAUDE
Morris Joe Brownstein, Minneapolis
Charles Buchwald, Brooklyn, N.Y.,
CUM LAUDE
Carolyn Ellen Burdick, Minneapolis
Lloyd Lee Carrigan, Hinckley
Roger Kieth Chase, A.A., Minneapolis
Roger Paul Clark, Minneapolis
Thomas George Clifford, Alexandria
Arlene Sandra Collins, Minneapolis,
CUM LAUDE
James Edward Dale, Jr., Anoka
Clarence Albert Davis, Jr., St. Paul
James Eugene Deis, Gaylord
Ruth Paulsrud Eargle, Minneapolis,
MAGNA CUM LAUDE
William Leonard Fogard, Battle Lake
Floyd Edwin Folven, Minneapolis
James Harold Forberg, Minneapolis
Kenneth Robert Frantz, Minneapolis
Donald A. Freeburg, Minneapolis
Robert Stanley Friesen, Delft

Kathleen Puumala Gawboy, Cloquet
Wayne Alan Gillis, St. Paul
Richard Herschel Goldblatt, A.A.,
Minneapolis
Richard Edward Gower, Stillwater
Thomas Julius Graham, Minneapolis
Jerome Daniel Halverson, A.L.A.,
Robbinsdale
Charles Frederick Hanson, Red Wing
Robert Kent Hazledine, Minneapolis
Joyce Dayton Heneman, Minneapolis,
CUM LAUDE
Albert Allan Hietala, Minneapolis
James Arthur Hoghaug, Detroit Lakes
Donald Loyd Holum, St. Paul
John Harold Hougen, Minneapolis
David Michael Hugener, Chisholm
Robert James Hulet, A.A., Austin
Sharon Elaine Hurd, St. Paul
John Harris Iverson, Minneapolis
Donald Eugene Jacobson, St. James
Judson Paul Jasmin, Minneapolis,
CUM LAUDE
Arlene Joyce Johnson, Minneapolis
Donald Ernest Johnson, Minneapolis
Lawrence Edward Johnson, Minneapolis
Lawrence Theodore Johnson, St. Paul
Avron Lowell Kaplan, Brownton
George Howard Kelby, Minneapolis
Donald Allan Kirschner, St. Paul
Agnes Genevieve Klebe, Hankinson,
N.D., CUM LAUDE
Barbara Katherine Kleine, Minneapolis,
MAGNA CUM LAUDE
Ronald James Kloyda, A.L.A., Minneapolis
Dale Mueller Krumviede, Baudette,
SUMMA CUM LAUDE

Jay Lashinsky, Minneapolis
 Richard Kermit Levine, Albert Lea
 Judith Elizabeth Mack, St. Paul, CUM
 LAUDE
 Joseph William Mangan, A.L.A.,
 Minneapolis
 George Webster Margot, Minneapolis,
 MAGNA CUM LAUDE
 Duane Ralph Martin, Minneapolis,
 CUM LAUDE
 CarolJean Mathias, A.A., Minneapolis
 Thomas Lawrence McLaughlin,
 St. Paul
 James William McVeigh, Minneapolis
 Rivel Mondschain, Minneapolis
 Sharon Marie Monnahan, St. Paul
 Everett Wadsworth Myers, Minne-
 apolis
 Thomas George Nellas, Minneapolis
 Curtis Elmer Nelson, White Bear
 Lake, CUM LAUDE
 Harold James Nelson, Minneapolis
 Jerald Arthur Nelson, Minneapolis,
 CUM LAUDE
 Arthur Edward Noot, Minneapolis
 Betty Samuelson Norbeck, Minne-
 apolis, CUM LAUDE
 James Franklin Olson, Robbinsdale
 Henry Evan Orensten, A.A., Minne-
 apolis
 Donna Mae Ouverson, Mason City,
 Iowa
 Wanda Marie Owens, St. Paul
 Tomas Robert Pederson, A.A.,
 Minneapolis
 Bette Jean Peltola, Richfield, MAGNA
 CUM LAUDE
 John William Petrick, Henning
 Jacquelyn M. Ploss, Scarsdale, N.Y.
 Zigmunds Priede, Minneapolis
 Larry Joseph Pries, Minneapolis
 Robert Barr Pryor, Rapid City, S.D.

Marjorie Muriel Radosevich, Minne-
 apolis
 Irving Jacob Rein, Minneapolis
 Gayle Lloyd Rengel, Minneapolis,
 MAGNA CUM LAUDE
 Carl William Rettenmayer, Edina
 Charles William Ruegamer, St. Cloud
 John Patrick Ryan, St. Cloud
 Roger Leroy Schrantz, Slayton
 Walter Emmet Scollard, Minneapolis
 Howard L. Seemann, Minneapolis
 Margaret Petropoulou Seemann,
 Athens, Greece
 Gerald Richard Sheehan, Minneapolis,
 CUM LAUDE
 David C. Speer, Minneapolis
 Frank Clement Stary, St. Paul
 Gerald Jerry Steinman, A.A., St. Paul
 Anne Marit Studness, A.L.A., Devils
 Lake, N.D.
 William Louis Sulzbach, Minneapolis
 Kaytheryne Louise Switzler, A.A.,
 Fullerton, Calif.
 Thomas John Thom, Minneapolis
 Arne Willard Thorsgaard, Northwood,
 N.D.
 Patrick William Tierney, Superior,
 Wis.
 Darrell Keith Tollefson, Minneapolis
 Helene Vivian Turnbull, Minneapolis
 Sandra Ann Wadtke, Minneapolis
 Samuel John Walker, Harlan, Iowa,
 CUM LAUDE
 Joanne Layne Walsh, A.A., Chip-
 pewa Falls, Wis.
 Francis Xavier Windorski, St. Paul
 Janice Earldene Yahnke, Rhinelander,
 Wis.
 Leonard Raymond Zetah, Olivia
 David Mackenzie Ziegenhagen,
 Hopkins

UNIVERSITY COLLEGE

Bachelor of Arts

Lloyd Franklin Gracey, Jr., Minneapolis Ingrid Johanna Severson, St. Paul

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Robert Theodore Carlson, Minneapolis, WITH DISTINCTION

Bachelor of Agricultural Engineering

Charles Wayne Bricher, St. Paul

Bachelor of Architecture

Lawrence T. Brodle, St. Paul

Richard Lawrence Tipping, Minneapolis

Bachelor of Chemical Engineering

George Theodore Speliopoulos, Minneapolis

Bachelor of Civil Engineering

John Hagman Comfort, St. Paul
David Edward Cox, Deephaven
Burton Eryle Forsberg, Minneapolis
Frank Herbert Hoffmann, B.A., Pine River
Eugene Joseph Isakson, Gibbon

George John Kroening, Minneapolis
Robert Harold Kroening, Minneapolis
Lloyd Bernard Larson, Minneapolis
Roger David Loftfield, Minneapolis
Frederic Anson Mase, Excelsior
Michael Vance Rich, Duluth

Bachelor of Geological Engineering

Darrell Francis Schneider, Minneapolis

Bachelor of Mechanical Engineering

James Harold Amlie, Minneapolis
Richard Martin Brown, Hutchinson
Fred Charles deCastro, St. Paul
William Robert Forder, Ely
Richard Dean Hessler, Austin
Milton Irwin, Minneapolis
Roger Angus Leitch, South St. Paul
Don James Lundberg, Minneapolis
Roy James McPherson, Brainerd

Ronald Floyd Musech, Hibbing
Robert Henry Nath, Minneapolis
Eugene Partyka, Minneapolis
John Howard Scott, Minneapolis
John Walter Simmons, St. Paul
Robert Albert Surma, Bowlus
Clarence Arthur Williams, Duluth
Edward Wendell Zappe, Browerville

Bachelor of Metallurgy

Bradden Edward Jacobson, Iron Mountain, Mich.

Bachelor of Mining Engineering

John Milton Bratt, Eveleth

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

Bachelor of Science

- Leo Ralph Abrahamsen, St. Paul, Agriculture, WITH HIGH DISTINCTION
- Nancy Lou Carney Birch, Duluth, Home Economics
- Donald Albert Bratsch, St. Paul, Agriculture
- William Gustav Bursch, Osseo, Agriculture, WITH DISTINCTION
- David Emerson Burton, Northfield, Agriculture
- Harold Nathaniel Carlson, St. Paul, Forestry
- Douglas Robert Cottrell, Sturgeon Lake, Agriculture
- Louise Cudd, Minneapolis, Home Economics
- Lorne Robert Dunham, St. Louis Park, Agriculture
- Ann Elizabeth Ellingboe, Tracy, Home Economics, WITH DISTINCTION
- Edwin Duane Godel, Fergus Falls, Forestry
- Ernest Edward Goldenman, Zimmerman, Agriculture
- Richard Paul Gormley, Minneapolis, Forestry
- Karl Heinz Haaser, Chicago, Ill., Forestry
- Arthur Joseph Jindra, Montgomery, Agriculture
- Hugo Herman John, St. Paul, Forestry, WITH DISTINCTION
- Roger Bonlie Johnson, St. Paul, Forestry
- Alice Kapsner, Minneapolis, Home Economics
- Harry D. Klaassen, Windom, Forestry
- Howard Franklin Krosch, Elmore, Forestry
- Arvy Jerald Larson, Rothsay, Agriculture
- Mari Lu Luetke, Waconia, Home Economics
- William James McCausland, Carlton, Agriculture
- Warren George Meintsma, Monticello, Agriculture
- Edwin Charles Meslow, Waukegan, Ill., Forestry, WITH DISTINCTION
- Charles Gilbert Nelson, Barnum, Forestry
- Jacqueline Kay Norman, Minneapolis, Home Economics
- Floyd Allen Olafson, Aitkin, Forestry
- Walter Carl Pfeifer, Tomahawk, Wis., Forestry
- Juris Plesums, Minneapolis, Agriculture
- Gordon Rudolph Priegel, Windlake, Wis., Agriculture
- Dale Merton Ripley, Winnebago, Agriculture
- Orrin James Rongstad, Osseo, Wis., Agriculture
- Richard Brian Ruud, St. Paul, Agriculture
- Eugene Eino Saari, Wawina, Agriculture
- Wilbert Henry Schaffer, Cannon Falls, Agriculture
- Ellen Irene Schoemaker, Mankato, Home Economics
- Douglas Paul Seastrom, DuQuoin, Ill., Forestry
- Karen Mae Sivertsen, Minneapolis, Home Economics, WITH DISTINCTION
- William Joseph Stangler, St. Peter, Agriculture

Jay Loren Strom, Worthington, Agriculture
Diane Lynne Miller Sundquist,
Minneapolis, Home Economics
Glenn Olger Titrud, Clarissa, Agriculture

Audrey Marie Vinck, Albert Lea,
Home Economics
William Gowen Westerdahl, St. Louis
Park, Forestry

COLLEGE OF EDUCATION

Bachelor of Science

Audree Ann Anderson, Cokato
Carolyn Ruth Anderson, Columbia
Heights
*Merla Jean Carpenter Anderson, A.A.,
Minneapolis, WITH DISTINCTION*
Oliver Martin Anderson, B.B.A.,
Minneapolis
*Shirley Ann Oehler Anderson, Minne-
apolis, WITH HIGH DISTINCTION*
Joel Erling Arnevik, Minneapolis
Kay Janice Ripley Bailey, Minneapolis
Margaret Zanger Baker, Minneapolis
Harold Paul Baughman, Rosemount
Robert Lee Bonawitz, Moorhead
Paul Arthur Borg, B.B.A., Virginia
Grace M. Knapton Bruber, B.A.,
St. Paul
*Dorothy Anna Mott Buran, Minne-
apolis, WITH HIGH DISTINCTION*
Steve Ira Chantelois, B.A., Iron River,
Wis.
Virginia Louise Christenson, Minne-
apolis
Harvey Linwood Clark, Minneapolis
Dean L. Coleman, Benson
*Francis Richard Crawford, Osseo,
WITH DISTINCTION*
Nancy Ann Watzke Dahlquist,
Minneapolis
Ann Allen Donovan, Norwood, Mass.*
Barbara Joyce Farrand, Minneapolis
Gerald Joseph Fisher, Minneapolis
Donovan Chester Folsom, Minne-
apolis
*Doris Sue Frazier, Malden, Mo., WITH
HIGH DISTINCTION**

Janice Claire O'Brien Getten, Minne-
apolis
Duane George Googins, Anoka
Lloyd Arvid Halvin, Minneapolis
Robert Alfred Henry, St. Paul
*Sally Lea Hetherington, Minneapolis,
WITH DISTINCTION*
Andrew John Hoiland, B.A., Minne-
apolis
James Norman Jacobsen, Minneapolis
*Barbara Ann Dodd Johnson, Minne-
apolis, WITH DISTINCTION*
*Kathleen Marie Olson Johnson,
Duluth, WITH DISTINCTION*
Marilyn Jean Lindquist Johnson,
St. Paul
Marlene Diane Nelson Jorgensen,
Minneapolis
Kenneth Francis Kaiser, Stillwater
Christ Bill Kalogerson, Minneapolis
Robert Keith Kerrins, Grand Meadow
Gerald Donald Kindall, St. Paul
Roberta Mary Peterson Klune, Eveleth
*Marilyn Peske Knox, Minneapolis,
WITH DISTINCTION*
Elaine Eleanor Kohns, Cherokee, Iowa
*Mary Louise Larson, Detroit Lakes,
WITH DISTINCTION*
Marshall Stuart Lifson, Minneapolis
Mary Therese Long, B.A., Fort Snell-
ing
Marilyn Jean Ludvigson, Minneapolis
*Loretta Lorraine Ludwig, Minneapolis,
WITH DISTINCTION*
Emil Victor Magnuson, Thief River
Falls

* Nursing Education Curriculum

Mary Elise Maland, Minneapolis
Judith Lee Lindblom Marker, Minneapolis, WITH HIGH DISTINCTION
 Marian Bernice Matejcek, St. Paul
 Renee Mary Meagher, St. Cloud
 Terrance William Merritt, White Bear Lake
 Alice M. Metzger, Smithtown, Long Island, N.Y., WITH DISTINCTION*
 Wilma Marie Metzger, St. Louis, Mo., WITH DISTINCTION*
 Kathleen Ann Meuwissen, Shakopee*
 Kenneth Henry Meuwissen, Minneapolis
 Arthur Franklin Mindt, White Bear Lake
 Patricia Gertrude Moison, Minneapolis
 Susan Helen Myles, Minneapolis, WITH DISTINCTION
 Arlene Lois Nelson, Pine River, WITH DISTINCTION
 Arnold William Ness, Minneapolis, WITH DISTINCTION
 Victoria Hanson Nestande, St. Paul
 Mary Rose Nowak, Minneapolis
 Jean Deanna Olsvig, Minneapolis
 Cortland Keith Ornborg, Minneapolis
 Judith Ann Preston, A.A., Wayzata*
 Gerald Wayne Prill, St. Paul
 Lyle Edwin Rahn, Rosemount
 Ruth E. Stevens Raymond, B.A., Wayzata
 William Gilbert Richter, St. Paul
 Elissa Dina Rolnick Rubinstein, St. Paul
 Georgia Vuicich Russell, Minneapolis
 Jone Marie Rymer, St. Paul, WITH HIGH DISTINCTION
 Walter William Schoenke, Honolulu, Hawaii
 George Paul Scudder, Minneapolis
 Marcia Ann Sheehan, A.A., Minneapolis
 Sheila Ann Smith, Owatonna
 Jane Ardis Swanson, Madison, Wis.
 Charles Robert Swanstrom, A.A., Bemidji
 William John Tema, Columbia Heights
 Mary Kathryn Tobin, Minneapolis
 Muriel Joyce Moline Turnlund, Minneapolis*
 Peter Veldman, Hollandale
 Audrey Lorraine Murray Walberg, Hibbing, WITH DISTINCTION
 John Waryan, A.A., Minneapolis
 David Laverne Wright, Byron, WITH DISTINCTION
 Shirley Yvonne Wuetherich, St. Paul, WITH DISTINCTION

Master of Education

Gerhard David Cohn, B.S., St. Paul
 Walter Woodridge Cox, Jr., B.S., M.S., Muskogee, Okla.
 Lorna Helen Ebert, B.S., Osseo
 Marian Emmadell Doyle Gruenfelder, B.S., Velva, N.D.
 Hans Gunther Kappus, B.S., St. Paul
 Carol Ann Lehmann Lindeman, B.S., Racine, Wis.

* Nursing Education Curriculum

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

Bachelor of Science

- Floyd Victor Boeder, Gibbon, Agricultural Education, WITH DISTINCTION
Russell David Eklund, Stanchfield, Agricultural Education
Warren Everal Ekstrom, Chaska, Agricultural Education
Elizabeth Ann England, Minneapolis, Home Economics Education
Gordon Whitfield Erlandson, Lowry, Agricultural Education, WITH HIGH DISTINCTION
Eugene Vanderhoof Francis, Garden City, Agricultural Education, WITH DISTINCTION
Robert Franklin Griffith, Villard, Agricultural Education
Evelyn Lenore Jackman, Aitkin, Home Economics Education
Harold Robert Kelly, International Falls, Agricultural Education, WITH DISTINCTION
Harold Edwin Mindermann, Frazee, Agricultural Education
Frank Andrew Moon, Amiret, Agricultural Education
Ronald Emanuel Novotny, Lonsdale, Agricultural Education
Richard Joseph Potocnik, Gilbert, Agricultural Education
Franklin Delano Quam, Kenyon, Agricultural Education
Raymond Edward Secora, Minneapolis, Agricultural Education, WITH DISTINCTION
Dallyce Jean Schwantz Siewert, Plainview, Home Economics Education, WITH DISTINCTION
Dean LaVon Swanson, Stanchfield, Agricultural Education
Jon Malcolm Swenson, Spicer, Agricultural Education
Sharon Rac Thorp, Atwater, Home Economics Education

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

- Edwin Sherman Agranoff, Minneapolis
Gary Vernon Alm, Minneapolis
Roger Eugene Arent, St. Paul, WITH DISTINCTION
Richard Elmer Asplund, Dassel
Albert Fraser Bailey, Minneapolis
James Gregory Baker, Minneapolis
Kenneth Wilbur Benson, Rochester
Robert Benjamin Berndt, Minneapolis
Richard Paul Bodnar, Minneapolis, WITH HIGH DISTINCTION
Arvet Roy Brase, Perham
Richard Martin Brown, Hutchinson
John Clement Buckley, St. Paul
John Jerry Budack, Fergus Falls
Harley Wayne Colliander, Harris
Bruce Jerome Conway, A.L.A., Minneapolis
David Edward Cox, Dcephaven
Orville Maurice Dahlbeck, Redwood Falls
Lawrence Frederick DeWitt, Minneapolis
Richard E. Dusterhoft, Minneapolis
William Henry Egan, Detroit Lakes
John LeRoy Erickson, Brainerd, WITH DISTINCTION
John David Frane, Hopkins
Dennis Michael George, A.L.A., Minneapolis

Orphield Byron Gilbertson, Minneapolis
 Leonard Holmfred Gustafson, St. Louis Park
 Reuben Titus Gustavson, Minneapolis
 Frederick Arthur Hagedorn, Pipestone
 Dean George Halberg, Braham
 Willis Joseph Hannifin, Madelia
 Byron Lawrence Hanson, Austin,
 WITH DISTINCTION
 Larry Gene Hanson, A.L.A., Minneapolis
 James William Heley, West Concord
 David Henry Holmgren, Henning
 Richard Kent Horst, Moorhead
 Harry Leonard Johnson, Elk River
 Marvin Wester Kampsula, Hibbing
 Harold Joseph Kimmel, St. Paul
 Roger Fred Kietz, St. Paul
 Arnold Louis Kustritz, St. Paul
 Paul Thorbjorn Larsen, Echo
 Roger Dennis Lindberg, East Grand Forks
 Jerome Waite Lundbeck, St. Paul
 William James Lynch, B.M.E., St. Paul
 Gary Leo Marx, Excelsior
 Frederic Anson Mase, Excelsior

Donald James Millar, Milwaukee, Wis.
 Glenn Earl Mulholland, Rochester
 Russell A. Nohrenberg, Dawson
 Manley Donald Oas, Jr., Hopkins
 Carlton Donald Olson, St. Paul
 William Roger Olsson, St. Paul
 Gerald Dunn Page, Minneapolis
 John Gerard Phelan, New York, N.Y.
 Timothy Keefe Roe, St. Cloud
 David Allan Schimke, St. Paul
 Wesley Allen Skjegstad, Henning
 William Franklin Smallidge, St. Paul Park
 Wayne William Sorenson, St. Paul
 Jon T. Stanley, Robbinsdale
 Glenn Alton Sunness, St. Paul
 Gerald Arthur Swanberg, Minneapolis
 James Martin TeVogt, Pierz
 Theodore John Ulven, Mound
 Richard George Vos, St. Paul
 Paul Henry Waggoner, Moose Lake
 Jack William Weber, Minneapolis
 David Erling West, St. Paul
 Kenneth Duane Wistrom, Minneapolis
 James Oliver Wolner, St. James
 Richard Francis Wurzer, Minneapolis

Bachelor of Science in Business

Robert James Dahlin, Minneapolis
 Richard Fred Nitz, Rothsay

Thomas Murdock Schubert, Minneapolis
 Richard Jack Wellington, Minneapolis

Bachelor of Science in Economics

Virgil I. Tollifson, Jr., Albert Lea

Wayne Allen Vander Vort, St. Paul

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

Bachelor of Agricultural Business Administration

John Allen Houle, Brainerd
 Marvin Dale Nuorala, Jacobson
 Adolph Lindsley Oseid, Baudette

Edward John Rosenwinkel, Jr.,
 Fairmont

LAW SCHOOL

Bachelor of Science in Law

Joseph Tilden Burkard, St. Paul
Gerald Helof Gillman, Coleraine

Ronald Eugene Martell, Minneapolis
Robert Anthony Schmitz, New Ulm

Bachelor of Laws

Paige Joseph Donnelly, B.A., St. Paul
Vernon Stanley Hoium, B.A.,
Columbia Heights
Marlene Germaine Mitchell, B.S.L.,
Minneapolis

David John Saari, B.A., Sleepy Eye
Charles M. Skinner, Jr., B.S.L.,
Minneapolis
Ronald Jerome Wolf, B.S.L., Minne-
apolis

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

Mary Elizabeth Fackler, Ft. Lauderdale, Fla.

COLLEGE OF MEDICAL SCIENCES

Graduate in Nursing

Gene Brokaw Good, Minneapolis

*Bachelor of Science in Nursing**

Joyce Violet Andeen, Warren
Nancy Lee Arones, Minneapolis
Nancy Ruth Bell, Minneapolis, WITH
DISTINCTION
Marilyn Vernice Carlson, A.A.,
Minneapolis, WITH DISTINCTION
Mary Malin Carroll, Minneapolis
Sally Ann Clausen, Echo, WITH DIS-
TINCTION
Laverne Ann Dahl, Fargo, N.D., WITH
HIGH DISTINCTION
Shirlee Lee Draeger, Glencoe
Maurine Carla Durling Dyrdahl, Twin
Valley

Dorothea Marie Ehrhorn, A.A., Grand
Rapids
Nancy Erdeen Etcheverry, Minne-
apolis
Jean Mildred Hagglund, St. Peter
Jane Kathryn Harding, Bismarck,
N.D., WITH DISTINCTION
Alyce Ann Heim, Bemidji
Virginia Ann Heim, St. Charles
Margaret Mary Hemenway, A.A.,
Austin, WITH HIGH DISTINCTION
Kathryn Grimwood Iwasko, Duluth,
WITH DISTINCTION

* These degrees are conferred subject to the satisfactory completion of nursing practice prior to June 13, 1959.

Nancy Jo Johnson, North St. Paul,
WITH HIGH DISTINCTION
Janice Norum Knutson, Minneapolis,
WITH DISTINCTION
Margaret Louise Kumm, Spring Valley,
WITH DISTINCTION
Lesley Burt Lane, Denver, Colo.,
WITH HIGH DISTINCTION
Nancy Karen Lightfoot, Fergus Falls,
WITH DISTINCTION
Lucy Ann Lindbloom, Soudan
Jeanette Anna Lundberg, Red Wing
Marie Irons Magee, Minneapolis
Marianne Eleanor Magnuson, Duluth,
WITH DISTINCTION
Rosemarie Mars, Triumph
Joy Astrid Martin, Minneapolis
Marilyn Fouquette McConnell, Foley,
WITH DISTINCTION
Ruth Marie Nelson, A.A., Plum City,
Wis.

Sonia Nelsen Nornes, Huron, S.D.,
WITH DISTINCTION
Lois Marilyn Oppen, Berwick, N.D.,
WITH DISTINCTION
Rebecca RuthAnn Otto, St. Paul,
WITH DISTINCTION
Audrey Rosella Peterson, Watertown
Joyce Carol Rathbun, Minneapolis
Gail Elizabeth Robinson, Minot, N.D.
Elaine Peterson Rogers, Minneapolis
Marjorie Anne Rogness, Minneapolis
Patricia Agnes Schachtele, A.L.A.,
Minneapolis, WITH DISTINCTION
Lois Carol Swenson, Hoffman, WITH
DISTINCTION
Margaret Ellen Tarnowski, Minneapolis,
WITH DISTINCTION
Joyce Lorraine Windahl, Fergus Falls,
WITH DISTINCTION

Bachelor of Science in Nursing Administration

Elizabeth Ann Anderson, St. Cloud,
WITH DISTINCTION
Kathleen Barrett, St. Paul, WITH DISTINCTION
Lois Irene Michael, Howard Lake,
WITH HIGH DISTINCTION
Lois Belle Miedema, Minneapolis,
WITH DISTINCTION

Patricia Ann Retka Neale, Le Sueur,
WITH DISTINCTION
Vera Ostapovitch, Theodore, Saskatchewan, Canada, WITH DISTINCTION
Linda Lou Roberts, Lake Crystal
Ruth Warke Toher, South St. Paul

Bachelor of Science

Lorene Anne Bellstrom, St. Paul,
Public Health Nursing
Joan Kosluchar Golob, Hibbing,
Medical Technology, WITH DISTINCTION**
Gene Brokaw Good, Minneapolis,
Public Health Nursing
Elsie Elizabeth Hasti, Cokato, Public
Health Nursing
Betty Jean Johnson, Two Harbors,
Public Health Nursing, WITH DISTINCTION

Phyllis Alene Langseth, Worthington,
Public Health Nursing
Bernice Hirsch McFadden, St. Paul,
Public Health Nursing
Gertrude Mary Ostmann, St. Louis,
Mo., Public Health Nursing
Marion Margarete Paskvan, St. Paul,
Public Health Nursing, WITH HIGH DISTINCTION
Beatrice Lenora Peterson, Minneapolis,
Public Health Nursing

** These degrees are conferred subject to the satisfactory completion of practical work prior to June 13, 1959.

Merilyn Joyce Seemann, Windom,
Public Health Nursing

Laura Alice Werner, Minneapolis,
Medical Technology**

Master of Public Health

Ralph O. Wollan, B.A., Minneapolis

GRADUATE SCHOOL

Master of Arts

Fred Michael Amram, Minneapolis

B.S. '56, Syracuse University. Major: Speech and Theater Arts. Minor: Psychology. Thesis: An Exploration and Redefinition of the Term "Empathy" and an Application of the Concept to Speech Theory, with Special Attention to Oral Interpretation.

LaVerne Charles Arns, Harmony

B.S. '41, Winona State Teachers College. Field of Concentration: Educational Administration.

Daniel Harold Beal, St. Paul

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

Phyllis Laurie Berdt, Minneapolis

B.A. *magna cum laude* '50, University of Minnesota. Major: Philosophy. Minor: English. Thesis: Malraux's Philosophy of Art.

Iver Bogen, Jr., Minneapolis

B.A. '51, Macalester College. Field of Concentration: Educational Psychology.

Audrey Rayfield Borchardt, Chicago, Ill.

B.A. '54, Knox College. Field of Concentration: Speech and Theater Arts.

Alvah Pratt Byers, Minneapolis

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

Ann Perschbacher Cerny, St. Paul

B.A. *cum laude* '29, Lawrence College. Field of Concentration: Curriculum and Instruction.

Tsun-chuan Chang, Taipei, Taiwan,
China

LL.B. '43, National Sun Yat-Sen University. Major: Journalism. Minor: Political Science. Thesis: Chinese Communist Propaganda: A Theoretical Study.

John Robert Christianson, Mankato

B.A. with honor '56, Mankato State Teachers College. Major: History. Minor: Geography. Thesis: The Lormsen Disturbance: 1830 in Kiel and Sleswick-Holstein.

Donald Arthur Dahlin, St. Paul

B.A. '52, University of Minnesota. Field of Concentration: Music.

Claereda Marjorie Dethmers, New
Ulm

B.A. '50, Macalester College. Field of Concentration: Psychology.

William Peter Drechsel, Fergus Falls

B.S. '52, University of Minnesota. Field of Concentration: Agricultural Education.

Joan Cherie Drues, Tacoma, Wash.

B.A. '57, Stanford University. Field of Concentration: Psychology.

Hassan Salama Elfiky, Alexandria,
Egypt

B.A. '47, Alexandria University. Field of Concentration: Education.

Dogan Dervis Energin, Istanbul,
Turkey

Graduate with distinction '51, University of Istanbul. Field of Concentration: Industrial Relations.

** These degrees are conferred subject to the satisfactory completion of practical work prior to June 13, 1959.

Edmund William Fitzpatrick,
St. Paul

B.A. '57, Hamline University. Field of Concentration: Industrial Relations.

Allan Earl Friederich, Eau Claire, Wis.
B.S. '54, Wisconsin State College at Eau Claire. Field of Concentration: Education.

Ralph Leon Fritz, Bloomington

B.A. '48, Hamline University. Field of Concentration: Educational Administration.

Robert Dean Gelle, Northfield

B.S. with distinction '53, University of Minnesota. Field of Concentration: Physical Education.

Jaquelin Silker Gellhorn, Onamia

B.S. '57, University of Minnesota. Field of Concentration: Educational Psychology.

Hilma Lydia Haller, La Salle, Ill.

B.S. '46, University of Minnesota. Field of Concentration: English.

Howard Earl Hallgren, Minneapolis

B.S. '52, St. Cloud State Teachers College. Field of Concentration: Educational Psychology.

Eugene Ross Hatton, Minneapolis

B.A. '56, University of Minnesota. Major: Journalism. Minor: Psychology. Thesis: Moods and Feeling Tones Created by Today's Leading Type Faces.

James Herman Hiner, Minneapolis

B.A. *magna cum laude* '51, University of Minnesota. Field of Concentration: American Studies.

Robert Clark Hunter, St. Paul

B.S. with honors '54, Pennsylvania State University. Field of Concentration: Geography.

Robert Loring Jackson, Minneapolis

B.S. '50, Hamline University. Field of Concentration: Curriculum and Instruction.

Mary Crowley Kasbohm, Minneapolis

B.S. with high distinction '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Alson Ilani Kaumeheiwa, Wailuku,
Maui, Hawaii

B.S. '58, St. Cloud State College. Field of Concentration: Industrial Education.

Rosalind Schribman Kelman, Minneapolis

B.A. '57, University of Minnesota. Field of Concentration: Library Science.

Whal-Min Kim, Seoul, Korea

B.A. '56, Beloit College. Field of Concentration: International Relations.

Louis Edmond Leipold, Jr., Minneapolis

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

Milo Carl Madsen, Roseville

B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Tatang Mahmud, Djakarta, Indonesia

B.A. '56, University of Indonesia. Field of Concentration: Psychology.

Mildred Lerman Mastbaum, St. Paul

B.S. '46, University of Minnesota. Field of Concentration: Educational Psychology.

Marian Luella McReavy, Minneapolis

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

Wayne Graham Menke, St. Paul

B.A. '50, Chico State College. Field of Concentration: Political Science.

Betty Miriam Meyrowitz, Brooklyn,
N.Y.

B.A. '57, Brooklyn College. Field of Concentration: English.

Shirley Patricia M. Olson, Arcadia,
Calif.

B.A. '53, University of California at Los Angeles. Field of Concentration: Library Science.

Francis C. Onsted, Mound

B.S. with distinction '57, University of Minnesota. Field of Concentration: Educational Administration.

Frederik Patty, Ambon, Indonesia

Graduate '50, Indonesia Pedagogical College. Field of Concentration: Educational Psychology.

Raymond Howard Pearson, Park
Rapids

B.S. '51, Bemidji State Teachers College. Field of Concentration: Educational Administration.

Douglas Robert Picht, Oak Park, Ill.
B.S. '50, University of Illinois. Field of Concentration: History.

Thomas Gene Porter, Northfield
B.A. '51, St. Olaf College. Field of Concentration: Physical Education.

Douglas Charles Pratt, Minneapolis
B.S. with distinction '52, University of Minnesota. Field of Concentration: Botany.

Thomas Walter Reese, Madison, Wis.
B.S. '50, University of Wisconsin. Field of Concentration: Business Administration.

Jerry Bruce Rumley, Denver, Colo.
B.A. '55, University of Denver. Field of Concentration: Speech and Theater Arts.

Cyril John Schoenecker, Hopkins
B.S. '46, University of Minnesota. Field of Concentration: Educational Administration.

Kenneth Arnold Schumack, Minneapolis
B.S. '53, University of Minnesota. Field of Concentration: Educational Administration.

Harrison Brown Sherwood, St. Cloud
B.A. '54, Macalester College. Field of Concentration: Political Science.

Victor Henry Storberg, Jr., Duluth
B.A. '51, Hamline University. Field of Concentration: Curriculum and Instruction.

Carl Allan Tamminen, St. Paul
B.S. with distinction '51, University of Minnesota. Field of Concentration: Educational Administration.

Caroline Dilgard Taves, St. Paul
B.A. '43, Hamline University. Field of Concentration: Educational Psychology.

Harry Verne Thorson, Sauk Centre
B.A. '36, Luther College. Field of Concentration: Educational Psychology.

Richard Deane Wyman, Orr
B.S. '48, Wisconsin State College at Eau Claire. Field of Concentration: Education.

Master of Arts in Public Administration

Harold Keith Anderson, Brainerd
B.S. with distinction '50, University of Minnesota. Major: Public Administration. Thesis: Training Programs for Volunteer Adult Leaders in 4-H Clubs in Minnesota.

Paul LeRoy Brown, Montevideo
B.A. '56, University of Minnesota. Major: Public Administration. Thesis: Personality Traits and Driving Behavior.

Carsten Daniel Leikvold, Scottsbluff, Neb.
B.S. in C.E. '49, Iowa State College. Major: Public Administration. Thesis: Municipal Off Street Parking with a Recommended Program for Scottsbluff, Nebraska.

Patrick Joseph McInnis, Eau Claire, Wis.
B.S. '56, St. John's University at Collegeville. Major: Public Administration. Thesis: A Capital Improvement Program for the Village of Richfield, Minnesota.

Hoon Yu, Inchon, Korea
LL.B. '54, LL.M. '57, Seoul National University. Field of Concentration: Public Administration.

Master of Business Administration

Richard Adolph Larson, Lindstrom
B.B.A. '56, University of Minnesota. Field of Concentration: Business Administration.

Master of Science

Balwant Singh Ahluwalia, New Delhi,
India

B.V.Sc. and A.H. '55, U. P. College of Veterinary Science and Animal Husbandry at Mathura. Field of Concentration: Dairy Husbandry.

Iive Mae Aldre, Minneapolis

B.A. '57, University of Minnesota. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Reactions of the Diazonium Salts of 3-Amino-4-phenylpyrazole.

Robert Charles Anderson, Willmar

B.S. '53, University of Minnesota. Major: Soils. Minor: Agricultural Economics. Thesis: Comparative Effect of Five Nitrogen and of Liquid and Solid Mixed Fertilizer on Yield and Composition of Corn.

Richard Allen Atneosen, St. Paul

B.S. with distinction '56, University of Minnesota. Field of Concentration: Physics.

Knud Erik Clausen, Sakskobing,
Denmark

Graduate '49, Giesegård Forestry School. Major: Forestry. Minor: Botany. Thesis: The Natural Hybrid of Paper Birch and Bog Birch in Minnesota.

Yellappa Chidananda Das, Hiriyyur,
Mysore, India

B.E. (Civil) '54, University of Mysore. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Beam Vibrations with Quasi-Orthogonal Boundary Conditions.

Kendell A. Dickinson, Spring Lake
Park

B.A. '54, University of Minnesota. Major: Geology. Minor: Geophysics. Thesis: The Ostracoda and Cladocera of the Humboldt Formation in Northeastern Nevada.

Rollo Lee Ehrich, Blue Earth

B.S. '57, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Cash-Future Price Relationships of Hard Red Spring Wheat.

George Filipovich, Minneapolis

Graduate '41, Ukraine State University. Major: Physics. Minor: Mathematics. Thesis: Electron Spin Resonance Studies.

Dale Norman Hendrickson, Olivia

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

Melford Quentin Hersey, Stewartstown, Pa.

B.S. '56, Pennsylvania State University. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: A Study of the Effect of Maternal Nutrition Upon the Growth, Reproduction, and Lactation of the Rat.

George Davis Holcomb, Bragg City,
Mo.

B.S. with distinction '56, University of Minnesota. Major: Soils. Minor: Agricultural Economics. Thesis: The Effect of Nitrogen Fertilization Upon the Establishment of a Legume-Grass Seeding and Upon the Companion Crop.

Frances Rochelle Kowitt, Rockville
Centre, N.Y.

B.A. '56, Bryn Mawr College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: A Kinetic Study of the Acid Induced Decomposition of Alkoxymercurials.

Joyce Heckenlaible LeFebvre, White
Bear Lake

B.A. '52, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: A Comparative Study of Four Thrushes in a Mexican Cloud Forest.

Harry Sherman Markley, St. Paul

B.Chem. with distinction '49, University of Minnesota. Major: Agricultural Biochemistry. Minor: Analytical Chemistry. Thesis: Studies on the Chromatographic Analysis of Protein Hydrolysates.

Alston Bancroft Meade, Linstead,
Jamaica, West Indies

B.A. '56, Fisk University. Major: Entomology. Minor: Plant Pathology. Thesis: The Growth and Development of *Empoasca fabae* (Harris) on Some Resistant and Susceptible *Solanum* Clones.

John Dennis Nalewaja, Browerville

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

Marvin Lyle Nelson, Brainerd

B.S. '52, University of Minnesota. Field of Concentration: Dairy Husbandry.

Ronald Henry Olsen, Sleepy Eye

B.A. '57, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Some Factors Influencing the Stainability of Bacteria in Direct Microscopic Counting Procedures.

Lowell Everett Salyards, Jackson

B.A. '52, Macalester College. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Spectrophotometric Determination of Traces of Platinum.

David Hugh Sowle, Jonesboro, Ark.

B.S. '53, Yale University. Major: Physics. Minor: Mathematics. Thesis: A Program for Calculation of Optical Model Scattering with Spin-Orbit Potential.

John Colin Sprang, Solihull, England

B.Sc. (Hons.) '55, University College of North Wales. Major: Plant Genetics. Minor: Botany. Thesis: Comparative Performance of Inbred Lines of *Zea mays* and Their Testcross Progenies at Different Plant Populations.

Roy Lloyd Thompson, Morris

B.S. '51, University of Minnesota. Major: Agronomy. Minor: Soils. Thesis: Effect of Seed Size, Seed Location in Inflorescence, Planting Date, and 2,4-D on Leaf Numbers, Tilling, Heading Dates, and Yields of Wheat, Oats, and Barley.

Willis Herbert Thompson, Jr.,
Excelsior

B.A. '56, University of Minnesota. Major: Geology. Minor: Geophysics. Thesis: The Conodonts of the Plattville Formation of Southeastern Minnesota.

James Raymond Wilcox, St. Paul

B.A. '53, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: A Comparison of F_2 Lines and Their Related F_1 Lines for Certain Yield and Quality Characteristics in Two Barley Crosses.

Master of Science in Aeronautical Engineering

Byron Leslie Swenson, Minneapolis

B.S. with high distinction '57, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Shock Wave Boundary Layer Interaction with Mass Transfer and Its Effect on Boundary Layer Parameters.

Wayne Harold Tempelman, Minneapolis

B.Aero.E. '57, University of Minnesota. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: A Universal Method for Calculating Orbital Conditions in an Inverse Squared Gravitational Field.

Martin John Timmons, Jr., Minneapolis

B.B.A. with distinction '58, B.A.E. with high distinction '58, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: The Design and Evaluation of Test Equipment for the Study of Creep Collapse of Long Thin Cylindrical Shells Under External Pressure.

Master of Science in Agricultural Engineering

Russell Elmer Larson, Roseville

B.Ag.E. '48, University of Minnesota. Field of Concentration: Agricultural Engineering.

Master of Science in Chemical Engineering

David Joseph Poferl, St. Paul

B.S. with high distinction '57, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Effect of End Volume on the Frequency Response of Pneumatic Transmission Tubing.

Yung-Sen Tseng, Chungshan, Kwangtung, China

B.S. '40, National Southwest Associated University. Field of Concentration: Chemical Engineering.

Master of Science in Civil Engineering

Shih-Shang Au, Hsiangsan, Chekiang, China

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

James Norman Dornbush, Brookings, S.D.

B.S. '49, South Dakota State College of Agriculture and Mechanic Arts. Field of Concentration: Civil Engineering.

Shoon-Rong Kao, Taipei, Taiwan, China

B.A. '51, National Taiwan University. Field of Concentration: Civil Engineering.

Aftab Raza, Santahar, Pakistan

B.Sc. in C.E. '55, Dacca Engineering College. Field of Concentration: Civil Engineering.

Chau-Hsing Su, Amoy, China

B.S. in Eng. '56, National Taiwan University. Field of Concentration: Civil Engineering.

Alphonse Eligius Zanoni, Milwaukee, Wis.

B.C.E. '56, Marquette University. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Donald Arthur Davidson, St. Paul

B.A. '51, Macalester College; B.S. '55, D.D.S. '55, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Biometric Analysis of the Effects of Unilateral Sympathectomy Upon the Development of Bone and Teeth in the Mandible of the Cat.

Master of Science in Mechanical Engineering

Ahmed Abdulla Dadi, Karachi, Pakistan

B.S. '55, University of Karachi. Field of Concentration: Mechanical Engineering.

Richard LaFountain Englund, Minneapolis

B.S. with high distinction '57, University of Minnesota. Field of Concentration: Mechanical Engineering.

Harold Joseph Lamon, Jr., Austin

B.M.E. with high distinction '57, B.B.A. with distinction '57, University of Minnesota. Field of Concentration: Mechanical Engineering.

Siang-hui Lin, Canton, China

B.S. in Eng. '54, National Taiwan University. Field of Concentration: Mechanical Engineering.

Clarence Adams Lysdale, Madison Lake

B.S. with high distinction '57, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: Inclined Orifice Coefficients for Compressible Flow in Circular Ducts.

Master of Science in Metallurgical Engineering

Kenneth Philip Hass, Minneapolis

B.S. '56, University of Minnesota. Major: Metallurgical Engineering. Minor: Chemical Engineering. Thesis: The Formation of Calcium Ferrites and Their Relation to the Sintering of Iron Ore.

Edwin Stan Rousseau, Iron River, Mich.

B.S. in Met.E. '57, B.S. in Eng. Adm. '57, Michigan College of Mining and Technology. Field of Concentration: Metallurgical Engineering.

Master of Science in Mineral Engineering

Gerhard Holtz, Stade-Elbe, Germany
Graduate '56, Technische Hochschule Aachen.
Field of Concentration: Mineral Engineering.

Master of Science in Surgery

Donald Francis Phillips, Sacramento,
Calif.
M.D. '49, Tufts College. Major: Surgery.
Minor: Surgical Pathology. Thesis: The Non-
Functioning Gallbladder.

Doctor of Philosophy

Henry Stephen Albinski, Los Angeles,
Calif.

B.A. with highest honors '53, M.A. '55, University of California at Los Angeles. Major: Political Science. Minor: History. Thesis: Australia's Search for Regional Security in South-East Asia. Major Adviser: Prof. L. A. Mills.

James Huber Banks, Jr., Washington,
D.C.

B.A. *magna cum laude* '54, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Differential Response as a Function of Reduced and Non-Reduced (Irrelevant) Drives. Major Adviser: Prof. Kenneth MacCorquodale.

Mildred Lecy Bell, Italy, Tex.

B.S. '49, Harding College; M.S. '51, North Texas State College. Major: Home Economics. Minor: Education. Thesis: Some Factors Affecting the Laboratory Performance of Certain Elastic Fabrics Under Various Laundering Treatments. Major Adviser: Prof. Suzanne Davison.

Emmett Norlin Bergman, St. Paul

B.S. with high distinction '50, D.V.M. '53, M.S. '53, University of Minnesota. Major: Veterinary Physiology and Pharmacology. Minor: Pharmacology. Thesis: Metabolic Studies on Hypoglycemic Ketosis in Pregnant Guinea Pigs. Major Adviser: Prof. A. F. Sellers.

Bernice Boehm, Minneapolis

B.A. '30, University of Wisconsin; M.A. '37, University of Chicago. Major: Social Work. Minor: Sociology. Thesis: Deterrents to the Adoption of Children in Foster Care. Major Adviser: Prof. J. C. Kidneigh.

Jean René Carduner, Rennes, France

Graduate '49, University of Sorbonne; Graduate '50, University of Paris. Major: French. Minor: Comparative Literature. Thesis: *La Création Romanesque chez Malraux*. Major Adviser: Prof. E. H. Falk.

Raymond Peter Carlson, Bemidji

B.A. *magna cum laude* '48, M.A. '50, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Effects of Auditory Word Stimuli Presented During the Hours of Sleep on the Formation and Modification of Word Associates. Major Adviser: Prof. C. G. Wrenn.

George Gilman Chapin, Jr., St. Paul

B.Ch.E. with distinction '47, University of Minnesota. Major: Mathematics and Mechanics. Minor: Chemical Engineering. Thesis: One and Two Point Boundary Value Problems for Ordinary Linear Differential Equations Containing a Parameter. Major Adviser: Prof. H. L. Turrington.

Somnath Ghei, New Delhi, India

B.A. '45, Edwardes Mission College; B.T. '46, Islamia College; M.A. '51, East Punjab University College; M.A. '57, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Relationship Between Classification Keys and Predictor Keys in Interest Measurement. Major Adviser: Prof. K. E. Clark.

Richard John Griffiths, Porthcawl, Britain

B.Sc. (Hons.) '55, University of Wales. Major: Physics. Minor: Mathematics. Thesis: The Mechanism of the Direct Interaction Process of Nuclear Reactions at Intermediate Energies. Major Adviser: Prof. R. M. Eisberg.

Dwight Hovland, Ada

B.A. '52, St. Olaf College; M.S. '56, University of Minnesota. Major: Soils. Minor: Agronomy. Thesis: Some Soil-Plant Relationships of Potassium and Magnesium. Major Adviser: Prof. A. C. Caldwell.

Frederick William Ibeling, Bloomington

B.S. '41, Concordia Teachers College; M.A. '54, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Effect of Supplementary Phonics Instruction on the Reading and Spelling Ability of Second, Fourth, and Sixth Graders. Major Adviser: Prof. M. C. Reynolds.

Robert Andrew Jacobson, Waterbury, Conn.

B.A. with high honors '54, University of Connecticut. Major: Physical Chemistry. Minor: Mathematics. Thesis: The Crystal and Molecular Structure of B_8Cl_8 . Major Adviser: Prof. W. N. Lipscomb.

B. M. Abdul Majeed Khan, Faridpur, Pakistan

B.A. '56, Hamline University; M.A. '57, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: Occupational Aspiration and Social Mobility of Selected Rural Male High School Graduates. Major Adviser: Prof. M. J. Taves.

James Ray Kiland, Thief River Falls

B.A. *cum laude* '50, M.A. '54, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Occupational Prestige in Two Veteran's Administration Hospitals. Major Adviser: Prof. D. G. Paterson.

Laurance Arthur Knecht, Elgin, Ill.

B.S. with high honors '53, University of Illinois. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Polarography and Acid-Base Properties in N-Methylacetamide. Major Adviser: Prof. I. M. Kolthoff.

Donovan Lee Kvalnes, Penns Grove, N.J.

B.A. '54, Dartmouth College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Some Studies of the Hunsdiecker Reaction. Major Adviser: Prof. W. M. Lauer.

Roland Libers, St. Paul

B.A. *cum laude*, '54, Macalester College. Major: Organic Chemistry. Minor: Chemistry. Thesis: I. A Study of the NEF Reaction and Related Syntheses in the 9,10-Dihydro-9,10-Ethanoanthracene Series. II. Benzoylation of α -Nitroesters. Major Adviser: Prof. W. E. Noland.

Frederic Christian Loew, Urbana, Ill.

B.S. '54, University of Illinois. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Carbenes from α -Haloesters. Major Adviser: Prof. W. E. Parham.

Eleanor Braun Luckey, Iowa City, Iowa

B.A. '37, M.A. '42, Colorado State College of Education. Major: Educational Psychology. Minor: Sociology. Thesis: An Investigation of the Concepts of the Self, Mate, Parents, and Ideal in Relation to Degree of Marital Satisfaction. Major Adviser: Prof. C. G. Wrenn.

Malcolm Duncan MacDonald, Lethbridge, Alberta, Canada

B.Sc.A. '50, University of Alberta. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Studies in the Building of Large Chromosome Rings in Barley. Major Adviser: Prof. C. R. Burnham.

Harold Gene Marshall, Selvin, Ind.

B.S.Agr. with distinction '52, Purdue University; M.S. '53, Kansas State College. Major: Plant Genetics. Minor: Botany. Thesis: A Cytogenetic Study of Interspecific *Avena* Hybrids, and the Inheritance of Resistance in Diploid and Tetraploid Varieties to Races of Crown and Stem Rust. Major Adviser: Prof. W. M. Myers.

Kenneth Hall McCartney, Hatfield,
Mass.

B.A. '45, University of Manitoba; M.A. '49,
University of Minnesota. Major: Economics.
Minor: History. Thesis: Government Enter-
prise: A Study of the Inland Waterways Cor-
poration. Major Adviser: Prof. J. G. Turnbull.

Gary Wilson Omodt, Houston

B.S. in Pharmacy '53, University of Minne-
sota. Major: Pharmaceutical Chemistry. Minor:
Organic Chemistry. Thesis: The Synthesis of
Some Glycidic Esters as Potential Antispas-
modics. Major Adviser: Prof. Ole Gisvold.

Hyun Koo Pyo, Republic of Korea

B.S. '43, Seoul National University. Major:
Horticulture. Minor: Agricultural Botany.
Thesis: A Study of Factors Influencing Pithi-
ness in the Radish (*Raphanus sativus* L.).
Major Adviser: Prof. R. E. Nylund.

Murray King Reed, St. Paul

B.A. '49, Yale University. Major: Child Wel-
fare. Minor: Psychology. Thesis: The Intelli-
gence, Social Maturity, Personal Adjustment,
Physical Development, and Parent-Child Re-
lationships of Children with Congenital Heart
Disease. Major Adviser: Prof. D. B. Harris.

Robert William Rinehart, Bridge-
water, S.D.

B.S. '49, M.S. '50, State University of Iowa.
Major: Physical Chemistry. Minor: Organic
Chemistry. Thesis: Induced Infrared Absorp-
tion in Mixed Gases at High Pressure. Major
Adviser: Prof. B. L. Crawford, Jr.

Motoaki Sato, Tokyo, Japan

B.S. '53, M.S. '55, University of Tokyo.
Major: Geology. Minors: Geophysics and
Physical Chemistry. Thesis: The Oxidation of
Sulfide Ore Bodies with Special Reference
to Self-Potentials. Major Advisers: Profs. G. M.
Schwartz and H. M. Mooney.

Jerry Herbert Schachtschneider, Mil-
waukee, Wis.

B.S. '54, University of Wisconsin. Major:
Physical Chemistry. Minor: Inorganic Chemis-
try. Thesis: Simultaneous Transitions and
Intermolecular Forces. Major Adviser: Prof.
B. L. Crawford, Jr.

John Lawrence Schultz, Gordon
Heights, Del.

B.S. *summa cum laude* '54, St. John's Univer-
sity at Brooklyn. Major: Inorganic Chemistry.
Minor: Physical Chemistry. Thesis: Solution
Calorimetry: I. The Complexing of Nickel
(II) Ion by Ammonia and Methylamine; II.
The Mixing of Hydrogen and Potassium Poly-
styrene Sulfonate Resinates. Major Adviser:
Prof. Z. Z. Hugas, Jr.

Charles Fredrick Schumacher,
Chicago, Ill.

B.S. with highest honors '51, University of
Illinois; M.S. '53, Iowa State College. Major:
Psychology. Minor: Educational Psychology.
Thesis: A Comparison of Three Methods for
Keying Interest and Personality Inventories.
Major Adviser: Prof. K. E. Clark.

Clayton LeRoy Stunkard, Owatonna

B.A. '48, M.A. '51, University of Minnesota.
Major: Educational Psychology. Minor: Edu-
cation. Thesis: The Construction and Valida-
tion of an Instrument for the Measurement of
Reading Expectancy of Advanced Primary
and Intermediate Grade Pupils. Major Ad-
visers: Profs. W. W. Cook and G. L. Bond.

Vallam Venkataswami, Madras, India

B.A. '46, B.V.Sc. '50, University of Madras;
M.S. '55, University of Minnesota. Major:
Dairy Husbandry. Minor: Animal Husbandry.
Thesis: A Study of Factors Influencing the
Frequency Distribution of Returns of Cows
Bred Artificially with Fluid and Frozen Semen.
Major Advisers: Profs. W. E. Petersen and
E. F. Graham.

Herbert Carl Walther, Jr., Itasca, Ill.

B.S. with highest honors '54, University of
Illinois. Major: Chemical Engineering. Minor:
Mathematics. Thesis: Some Physico-Chemical
Properties of the Humic Acids. Major Advisers:
Profs. E. L. Piret and A. J. Madden.

Doctor of Philosophy in Medicine

William Muir Manger, New York,
N.Y.

B.S. '44, Yale University; M.D. '46, Columbia University. Major: Medicine. Minor: Physiology. Thesis: Chemical Quantitation of Epinephrine and Norepinephrine in Plasma: A Clinical and Experimental Study. Major Adviser: Dr. K. G. Wakim.

Doctor of Philosophy in Neurosurgery

Gerald Leon Haines, Barre, Vt.

B.S. cum laude '42, M.D. '44, University of Vermont; M.S. in Neurosurgery '51, University of Minnesota. Major: Neurosurgery. Minor: Pathology. Thesis: Studies on the Blood-Brain and Blood-Liquor Barriers by Radio-Isotope Methods, with Special Reference to the Appearance of I^{131} in the Cerebrospinal Fluid of Man. Major Adviser: Dr. W. T. Peyton.

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 1959

- The members of the Senior Class, their relatives, and friends are invited by President and Mrs. James Lewis Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held in the main ballroom of the Coffman Memorial Union.
- Those in the receiving line will be President and Mrs. Morrill, Mr. Wayne W. Anderson, President, All-University Congress, and Mr. Richard L. Erickson, President, Coffman Union Board of Governors.
- 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.
- All guests are urged to register at the appropriate tables. The signed pages will be bound and preserved by the class of 1959.
- 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

1959

MEMORIAL STADIUM
SATURDAY EVENING, JUNE 13
AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Clarence E. Larson, Assistant Secretary

Mr. Laurence R. Lunden, Treasurer

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

The Honorable George W. Lawson, St. Paul
Second Vice President

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

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

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, M.D., Rochester

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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 eighth 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 140,000 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 26,000 students on its Minneapolis, St. Paul, and Duluth 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 three 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 Twin City Area Educational Television Station KTCA-TV, 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 contribu-

tions have made it possible for the University to build the Masonic Memorial Hospital and are making it possible to construct Diehl Hall (which will house the biological-medical library and additional medical research facilities) and the Veterans of Foreign Wars Cancer Research Center.

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 1957 LEGISLATURE ACCEPTED, on behalf of the people of the state, the additional responsibilities which this anticipated enrollment involves. In addition to \$44,339,057 for general maintenance, the University received \$7,907,291 for University Hospitals; \$3,610,000 for special appropriations, including special extension and research activities; and \$16,530,518 for new buildings, land, and for the rehabilitation of existing buildings for the two years, 1957-58 and 1958-59.

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 1957-58 showed that the University received \$78,192,595.44 and spent \$78,196,960.26. This includes a total of \$13,137,045.97 received from student tuition and fees, hospital and other department receipts; \$1,412,790.67 from intercollegiate athletics; \$12,698,158.03 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 \$14,227,127.38 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, as well as from the Permanent University Fund derived from land set aside by the Federal Government, and the occupational tax on iron ore. Also, \$2,439,375.73 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$78,192,595.44 which the University received for 1957-58, \$34,278,097.66 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 candidates for degrees and their friends and relatives 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, SLA '60, 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 Band, conducted by Instructor in Music and Bandmaster Gale L. Sperry, Ph.D., will play:

- "Original Suite" - - - - - Gordon Jacob
- "Soliloquy and Dance" - - - - - James Niblock
- "Suite in F" - - - - - Gustav Holst

PROCESSIONAL: The Concert Band, conducted by Dr. Sperry.

- "Marche Militaire Francaise" - - - - - Camille Saint-Saens
- "Regal Procession" - - - - - Clifton Williams
- "Procession of Nobles" - - - - - Nicholas Rimsky-Korsakov

PROCESSION: The procession, made up of Regents, faculty members, and candidates for degrees, will march from Northrop Field and will enter the Stadium at exactly 8:00 p.m. The line of march will be in the following order: 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. University faculty members, Regents, and distinguished guests will be last in the line of march. Faculty marshals will be Associate Professor J. Merle Harris, B.A.,

* 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

General College; Professor Charles V. Netz, Ph.D., College of Pharmacy; and Associate Professor Harry W. Kitts, Ph.D., Institute of Agriculture.

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.

THE NATIONAL ANTHEM: The entire audience, standing, and Professor Roy A. Schuessler, M.M., 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 Paul Colbert, Adviser to Catholic Students and Staff Members on the St. Paul Campus of the University.

INTRODUCTION OF DISTINGUISHED GUESTS: President James Lewis Morrill, LL.D., University of Minnesota.

SPEAKING FOR THE UNIVERSITY: Vice President William T. Middlebrook, M.C.S., Business Administration, University of Minnesota.

PRESENTATION OF A REGENTS' CITATION: The Honorable Ray J. Quinlivan, First Vice President and Chairman of the Board of Regents.

CONFERRING OF ROTC CERTIFICATES: Vice President Malcolm M. Willey, Ph.D., Academic Administration, will introduce Colonel Dean M. Benson, USA, Professor of Military Science and Tactics; Commander Frank W. Ayres, USN, Associate Professor of Naval Science; and Colonel Arthur W. Dern, 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 Morrill.

Order of Events

CONFERRING OF DEGREES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Morrill the candidates for certificates and degrees. They are, in order of their introduction: Assistant 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; Assistant Dean Russell M. Cooper, Ph.D., University College; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Harold Macy, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., 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; Acting Dean Marion W. McCrea, D.D.S., School of Dentistry; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Theodore C. Blegen, 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: Associate Professor William C. Rogers, Ph.D., General Extension Division; Associate Dean Alfred L. Vaughan, Ph.D., General College; Assistant Dean Roger B. Page, Ph.D., College of Science, Literature, and the Arts; Dean Errett W. McDiarmid, Ph.D., University College; Professor Howard D. Myers, B.S.C.E., Institute of Technology; Assistant Dean Austin A. Dowell, 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; Professor Earl B. Fischer, Ph.D., College of Pharmacy; Professor Stanley V. Kinyon, LL.B., Law School; Assistant Dean Clarence M. Stowe, D.V.M., College of Veterinary Medicine; Professor Ambert B. Hall, D.D.S., School of Dentistry; Assistant Dean N. L. Gault, Jr., M.D., College of Medical Sciences; Associate Dean John G. Darley, Ph.D., Graduate School.

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

Order of Events

CONFERRING OF HONORARY DEGREES: Dean Spilhaus will present Dr. Farrington Daniels to President Morrill for the University's honorary degree, Doctor of Science.

FARRINGTON DANIELS

NATIVE of Minneapolis, graduate of the University of Minnesota with the degrees of Bachelor of Science and Master of Science, and of Harvard University where he received the degree of Doctor of Philosophy, he is known the whole world over as an outstanding teacher and research chemist of his generation; during the stress and conflict of two world wars he applied himself and his scholarly talents in the defense of the nation; for three decades his scientific acumen and administrative capabilities have nurtured and enhanced the academic distinction and prestige of the Department of Chemistry at the University of Wisconsin; held in highest esteem by his colleagues in science, he has been signally honored as recipient of the Priestly and Willard Gibbs medals in recognition of his distinguished achievements in the field of chemistry—

BECAUSE your early pioneering studies in chemical kinetics, and your lifelong research pertaining to the utilization of all forms of energy, have enabled people around the globe to better their standards of living and to improve their lot in life; and because your own rich life is a heartening example of the rewards and satisfactions that can be derived from an academic career in teaching and research, the Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, Farrington Daniels, the degree of Doctor of Science, *honoris causa*, with all the rights and privileges pertaining to that degree.

Dean Lockhart will present Judge Gunnar H. Nordbye to President Morrill for the University's honorary degree, Doctor of Laws.

GUNNAR H. NORDBYE

BORN in Urskog, Norway, and reared in Minnesota, he studied for his Bachelor of Laws degree at the University of Minnesota and upon admission to the bar entered practice in the city of Minneapolis; his career as jurist began in the Municipal Court of Minneapolis in 1922, followed by six years on the bench of the Hennepin County District Court, where the brilliance of his mind and the soundness of his legal knowledge foreshadowed the achievements of his later years; his appointment as judge in the Minnesota District of the United States District Court came in 1931, and his service on the federal bench has thus spanned the administrations of four presidents of the United States; during all these years his unquestioned mastery of the law and his ability to apply it dispassionately to the issues before him, have won him the admiration and respect of bench and bar in this state and throughout the nation—

BECAUSE your career has ever been shaped and guided by the highest of principles, thereby serving to strengthen and bulwark the legal institutions on which the security and freedoms of this country so firmly rest; and because as judge and private citizen you have devoted your manifold talents

Order of Events

to the furthering of truth and justice, the Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, Gunnar H. Nordbye, the degree of Doctor of Laws, *honoris causa*, with all the rights and privileges pertaining to that degree.

“HAIL! MINNESOTA,” The University’s Alma Mater song: The audience and Professor Schuessler.

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.

AULD LANG SYNE: The Frances Miller Brown Memorial Bells.

(There will be no Recessional)

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

James H. Davison, St. Paul*
Dennis L. Durigan, Minneapolis
Donald A. Kirschner, St. Paul

Gary L. Nelson, Roslyn, N.D.
James H. O'Hagan, New Brighton

Second Lieutenant, Army Intelligence Corps

Charles R. Edelstein, Hibbing*
William E. Falvey, St. Paul

Eugene F. Sathre, Minneapolis*

Second Lieutenant, Artillery

Richard N. Bracher, St. Louis Park*
Larry N. Burger, St. Paul
Charles C. Eby, Evanston, Ill.*

Leonard J. Hildebrandt, Brainerd
Harold G. Whitfield, Jr., Hastings
Norman H. Winer, St. Louis Park

Second Lieutenant, Infantry

Donald F. Bierden, St. Paul*
Harry A. Engelbrecht, Minneapolis
Richard D. Ford, Mabel
Richard M. Huff, Minneapolis
Gary W. Jones, Jackson*

James E. Reese, New York, N.Y.
Robert E. Tanner, Edina
Gerald R. Wallin, St. Paul*
Burl A. Zorn, St. Louis Park*

Second Lieutenant, Medical Service Corps

Robert A. Westby, Minneapolis

Second Lieutenant, Military Police Corps

Wayne S. Applebaum, St. Louis Park
Jerrold F. Bergfalk, Minneapolis

William W. Lammers, Minneapolis

* Designated Distinguished Military Graduate

Second Lieutenant, Ordnance Corps

Thomas E. Anderson, New Brighton
Richard R. Carson, Pipestone
Ross E. Judkins, St. Paul*

Gary C. Nordland, Minneapolis
Larry C. Oyen, Hayfield*

Second Lieutenant, Quartermaster Corps

Lloyd L. Robinson, St. Paul

Second Lieutenant, Transportation Corps

Paul M. Lundeberg, Minneapolis
Philip J. Schweitzer, St. Paul

Ronald H. Usem, Austin

First Lieutenant, Dental Corps

James S. Allan, St. Paul
John F. Nelson, Minneapolis

Thomas P. Serene, Minneapolis

First Lieutenant, Dental Corps Intern

Gerald D. Stordal, Minneapolis

First Lieutenant, Medical Corps Intern

William J. Broussard, Minneapolis
John B. Campbell, Minneapolis
Richard A. DeRemee, Minneapolis
Richard O. Lundborg, Minneapolis

Richard A. Meland, Minneapolis
Dean T. Schamber, Minneapolis
Richard L. Swanson, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

William H. Bast, St. Paul
William T. Farrar, Spencer, Iowa
Charles L. Johnson, Helena, Mont.
William F. Lewis, Smithtown, N.Y.

Robert A. Nelson, Le Center
Fritz R. Palas, Postville, Iowa
James R. Robert, St. Paul
Stanley P. Thompson, Faribault

Ensign, USNR

James H. Miller, Hopkins
Dale E. Sauer, New Ulm

Paul A. Vandermyde, St. Ansgar, Iowa

* Designated Distinguished Military Graduate

Ensign, CEC, USN

Kenneth O. Pankow, Faribault

Ensign, CEC, USNR

William C. Summers, St. Paul

Ensign, SC, USN

Thomas W. Christensen, Evan
Roger H. Frommelt, Minneapolis
Eugene Koczur, Holdingford

Richard D. Schneider, Edina
Conrad L. Vilella, Minneapolis
Samuel J. Walker, Harlan, Iowa

Ensign, SC, USNR

Richard L. Erickson, St. Paul
Robert A. Erickson, St. Paul

James A. Haxton, St. Paul

Second Lieutenant, USMC

Wallace C. Gibson, Moorhead

Charles M. Johnson, Kenyon

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Bernard E. Baymler, Barnum
William R. Chapman, Jr., Minneapolis
Joe B. Cowell, Rice Lake, Wis.
Lloyd W. Curtis, St. James
Harry Delizonna, St. Paul
Robert E. Granowski, Owatonna
Thomas G. Gruidl, Minneapolis
Donald J. Laven, Minneapolis
Thomas C. May, Minneapolis
David W. Miley, Atwater

Frederick A. Pillet, Minneapolis
William E. Powell, Minneapolis
Edward H. Riebeschl, Worthington
Robert W. Ryan, Minneapolis
Gerald F. Sacre, Minneapolis
Marvin C. Schrader, Dundas
Austin R. Tibbetts, St. Paul
James Matthew Urnes, Minneapolis
Ronald K. Weltzin, St. Paul

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

Stella Margarethe Anderson, St. Paul
Ottar Soren Andreasen, Minneapolis
Donald Myron Buckner, St. Paul
Myrton Richard Charney, Minneapolis
Mechel Deeb, St. Paul
Edward Elias Grosmann, Minneapolis

Jack Manzavrakos, Minneapolis
Michael Cullen Paulson, Minneapolis
William Steve Sadler, St. Paul
Herbert Arnell Sorvik, Minneapolis
James Walter West, St. Paul

Electrical Engineering Aide Certificate

David Elmer Bostrom, Minneapolis

General Engineering Certificate

Curtis Luther Carlberg, Minneapolis
Richard Erling Fagerblom, St. Paul
George Frederick Fisher, St. Paul
Donald Joseph Haub, Osseo

Ignacy Vincent Prosinski, Minneapolis
Donald August Stock, Minneapolis
Edward William Wetterberg, Minneapolis

Industrial Engineering Certificate

Lawrence Melvin Seifert, Minneapolis

Associate in Mortuary Science

James Albert Altmann, St. Paul
Gerald Ole Bagley, Spring Grove
Richard Lee Beese, Claremont
Richard Joseph Bormes, Minneapolis
James Joseph Caturia, Hastings
Thomas Roy Cochran, Columbus, Neb.
William Patrick Covington, Two Harbors
Robert Arlie Dick, B.A., Mountain Lake
Terry Lee Dieterle, Aurora, Ill.

Edward Malloch Fraser, A.A., Winnebago
James William Greteman, Templeton, Iowa
Stephen Henry Haney, Columbus, Neb.
Harold Le Roi Hansen, Atlantic, Iowa
Dale George Holt, Clear Lake, S.D.
Arthur Andrew Johnson, Waconia
David James Johnson, Dassel
John Jerry Keohen, Montgomery
Marshall Kent Kittelson, Brooten

Dennis John Knopik, Ord, Neb.
 Theodore David Loftness, Fairfax
 David Lec Lundstrom, Milaca
 Robert Stanley Nelson, Minneapolis
 Herbert William Nystrom, Ashland,
 Wis.
 Eugene Darrel Ozment, Rosemount
 Merrill Lou Pedersen, Morris
 William Lawrence Ramaekers,
 Genoa, Neb.
 Marlin Kenneth Rosin, Wells

Clarence August Rothfork, Norwood
 DeVerne Clarence Seland, Westby,
 Wis.
 Lloyd James Shields, Oelwein, Iowa
 Hermon Carlton Steverson, Winter
 Garden, Fla.
 Gary George Vargason, Litchfield
 James Frederick Weerts, Bettendorf,
 Iowa
 Darrell Richard Yates, St. Paul

GENERAL COLLEGE

Associate in Arts

Eugene Alfred Acker, Minneapolis
 Barbara Jean Ackland, West St. Paul
 Norman Clyde Adams, Minneapolis
 Eva Geraldine Alarcon, Anoka
 George Landru Allison, Minneapolis
 Gerald Bruce Anderson, Minneapolis
 Paul Charles Anderson, Minneapolis
 Richard Dale Anderson, Minneapolis
 William Robert Archambeau, St. Paul
 John Gary Bailey, Minneapolis
 Virginia Louise Bakke, Minneapolis
 Melville John Bauman, St. Paul
 William Lyle Baumgarten, St. Paul
 Darryl Ray Beissler, St. Paul
 Roger Alfred Belisle, Minneapolis
 William Henry Birk, Monticello
 Robert Alexander Block, St. Paul
 Mary Margaret Books, Minneapolis
 Thomas Patrick Bowman, Minne-
 apolis
 Phillip Sutton Brooks, St. Paul
 William Henry Brown, Minneapolis
 Robert Lalor Bussell, Minneapolis
 Curtis Samuel Carlson, Minneapolis
 Janice Marie Carlson, Minneapolis
 Gaylen Richard Case, Shakopee
 Tommy L. Clardy, St. Paul
 Dennis Merrill Curry, Minneapolis
 Ilene Constance Davis, St. Paul
 John Henry Distler, St. Paul
 Bruce Raymond Eide, Minneapolis
 David Donald Ekelund, Minneapolis
 David Allen Ellingson, Mora
 Vernon George Ellis, Minneapolis

Paul James Elmer, Minneapolis
 Edward Bernard Emerson, Minne-
 apolis
 Ray Harlin Fausch, Morristown
 Marshall Eugene Field, Minneapolis
 Frederick Jerome Fiterman, Golden
 Valley
 Jon Clive Forster, Wayzata
 Duncan Camcron Fowler, Minne-
 apolis
 Rodney Matthew Frantzen, St. Paul
 Ronald Lee Fredericksen, St. Paul
 Michael Thomas Gallagher, Minne-
 apolis
 Robert Allan George, Minneapolis
 Mary Elizabeth Geror, West St. Paul
 Gerald Dale Gjerdingen, Starbuck
 Paul Luther Graf, Jr., Minneapolis
 Bruce Frederick Hagen, Minneapolis
 Everett Lenard Hall, Robbinsdale
 Edward Lynn Hamilton, Anoka
 Graham Thomas Hanks, St. Paul
 Joan Beedy Hart, Excelsior
 Terrance Earl Hayne, St. Paul
 Carl Louis Heise, Easton
 Dwyn Louis Hendrickson, Bayport
 Lowell Ben Hilsen, Hopkins
 Jon Dwight Hoffman, Hopkins
 Roger Arnold Holz, Spring Lake Park
 Robert George Hunger, North St.
 Paul
 Gerald Willard Huston, Minneapolis
 Charles John Ingli, Minneapolis

Thomas Edward Irvine, Jr., White Bear Lake
 Keith David Jensvold, Minneapolis
 James Earl Jenuwine, Forest Lake
 Douglas Charles Johnson, Minneapolis
 Edward Kenneth Jorgensen, St. Paul
 Richard Stewart Kauffman, Minneapolis
 Gerald Robert Kilpatrick, Minneapolis
 John Bernard Knopp, Mahtomedi
 Sharon Marcey Kovel, Duluth
 Marie Jane Krantzas, St. Paul
 Lawrence Irwin Kravetz, Minneapolis
 Christopher Alan Krueger, Edina
 Wesley Robert Kuske, Olivia
 James Peter Larson, Jr., St. Paul
 John Frederic Lau, Jr., Minneapolis
 Diane Bonnie Lava, St. Louis Park
 John Albert Lepak, St. Paul
 Richard Ernest Leubner, Minneapolis
 Hiram Allen Lindberg, Minneapolis
 Gerald Dean Longie, Minneapolis
 Robert James Longsdorf, Red Wing
 Catherine Jean Love, Lime Springs, Iowa
 Richard Francis Lynch, Forest Lake
 Shirley Ann Mapes, White Bear Lake
 George Donald Master, Robbinsdale
 Duane William Matz, Perham
 Gilbert La Vaughn McMurray, St. Paul
 Tim Herbert McNellis, St. Louis Park
 Delores Carolyn Mickelson, Minneapolis
 John Roger Mitchell, Monticello
 Donald Robert Moore, Minneapolis
 William Henry Moulton, Minneapolis
 Phillip Jean Mousseau, Minneapolis
 Nancy Hazel Nelsen, Mendota Heights
 James Dennis Neuberger, Minneapolis
 William Arthur Nordrum, Jr., Minneapolis
 Mary Helen O'Neil, St. Paul
 Thomas John Pack, St. Paul
 Nyle John Pasko, Minneapolis
 Judy Evangelyn Patton, Minneapolis
 John Henry Peacock, Minneapolis
 Judy Carrol Peal, Minneapolis
 Karen Mary Peterson, Minneapolis
 Ronald James Phelps, Neenah, Wis.
 Donald Gordon Pullen, St. Louis Park
 Wayne Conrad Roal, Minneapolis
 Thomas Leigh Roberts, Minneapolis
 Barbara Ann Rohne, Minneapolis
 David Paul Rovick, Edina
 James John-David Russell, Winnipeg, Manitoba, Canada
 Gerald Raymond Sandey, Minneapolis
 John Robert Sauers, Stillwater
 Kurt Gordon Sczepanski, Minneapolis
 Callie Robena Shaw, Charlotte, N.C.
 James William Sheldon, Minneapolis
 James Carroll Smith, North St. Paul
 Jerome Allen Snyder, Minneapolis
 Michael Charles Spellacy, Belle Plaine
 Ronald Thomas Starker, Minneapolis
 Patrick Francis Stewart, Minneapolis
 Ernest Lewis Stiegemeyer, Jr., Minneapolis
 Dennis Richard Stoffels, St. Paul
 Rita May Sullivan, St. Paul
 Dennis Gary Swan, Minneapolis
 Harry Raymond Swanson, St. Paul
 Madalen Tataryn, Minneapolis
 Stephen Raymond Thomas, St. Paul
 Roger Dale Todahl, Minneapolis
 Brian Alexander Triethart, St. Louis Park
 Sharon Lee Tschache, Minneapolis
 Kenneth LeRoy Tunell, St. Paul
 Doris Ann Vrudny, Minneapolis
 Robert George Vrudny, Minneapolis
 Donald Francis Wagner, St. Paul
 Robert Basil Westacott, Minneapolis
 Suzanne Lee Wiltfang, St. Paul
 Thomas Dow Worthley, Jr., Minneapolis
 Gerald Coventry Wozniak, Minneapolis
 Kenneth Daryle Wright, Minneapolis
 Stanley Ziegler, Minneapolis
 William Kent Ziegler, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Arnold Porter Baker, Jr., St. Paul
Ralph Eric Blad, Duluth
Sheila Gail Breitman, Minneapolis
Patricia Ann Carlson, Minneapolis
Sharron Naomi Curtiss, Bloomington
Daphne Joan Ellis, Regina, Saskatchewan, Canada
Karen Marie Enos, Delano
Richard Lee Faylor, Minneapolis
Sandra Joan Findsen, Minneapolis
Sandra Anne Flynn, St. Paul
Diane Priscilla Hansen, Minneapolis
Mary Therese Haun, St. Paul
Don Forrest Hulbert, Thief River Falls
Lloyd Hugo Thomas Johnson, Minneapolis
Joan Marie Kivi, Minneapolis
Judith Beverly Klarquist, Minneapolis
Margaret Ann Krezowski, Minneapolis
Camilla Louise Martin, St. Paul
Judith Louise Metzger, Chicago, Ill.
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Marlyss Marie Moberg, Minneapolis
Donald Vincent Osier, Minneapolis
Katherine Mary Parenteau, White Bear Lake
Patricia Joan Peterson, Minneapolis
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Judith Ann Suek, St. Paul
Karen Jane Tinker, St. Paul
Jacqueline Marie Wilson, Minneapolis

Bachelor of Arts

Richard Paul Abnet, La Crescent
Michael Bernard Abramson, Minneapolis
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James John Agan, Minneapolis
Philip E. Agnew, International Falls
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Russell Clifford Anderson, A.A., Minneapolis
Wayne William Anderson, Minneapolis
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James Edward Arthur, Mankato
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James Henry Barnes, St. Paul
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William Billet Barte, St. Paul

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 Frank Gross Barzen, Thief River Falls
 William Herbert Bast, St. Paul
 Marilyn Mae Baumann, Minneapolis
 Joan Dorene Beard, Parker, S.D.
 Mary Helen Beck, Camp Hanford, Wash.
 Thomas Ferguson Bede, Pine City
 Derwood Robert Belisle, St. Paul
 Ruth Anne Benda, Jackson
 Carol Lee Benjamin, St. Paul
 Diane Catherine Bennett, A.A., Rochester, MAGNA CUM LAUDE
 Samuel Ely Bennett, Minneapolis
 Barbara Jean Berg, Minneapolis
 Patricia Lucille Berger, Klossner, MAGNA CUM LAUDE
 Barbara Ellen Berglund, Duluth
 Sara Jane W. Bergstrom, A.A., St. Paul
 Gail Marcus Berman, Minneapolis, CUM LAUDE
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 Kenneth John Boettcher, Farmington
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 Naren Hulbert Canty, Minneapolis
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 Howard Clayton Carlson, Pelican Rapids
 James Bradford Carlson, St. Louis Park
 Lynn Mary Carroll, Minneapolis
 William Aloysius Cedar, Red Wing
 Constance Ann Chambers, Austin
 Stephen Edwin Chase, Minneapolis
 Phyllis Hoffman Christensen, St. Paul
 William Cyrus Christenson, Minneapolis, CUM LAUDE
 James Pell Clayton, Minneapolis
 Arnold Benard Clickstein, Lynn, Mass.
 Edward Jerome Collins, Jr., Minneapolis
 James Deville Collins, St. Paul
 William Grant Comstock, Rochester
 Victor Joseph Contoski, Minneapolis, CUM LAUDE
 Rozelle Lawrence Crowder, A.L.A., Minneapolis
 Bernard Robert Crystal, St. Louis Park, MAGNA CUM LAUDE
 Zile Helga Cukurs, Minneapolis
 John Paul Cummings, St. Paul
 Elizabeth Ann Curren, Minneapolis
 Rolf Mark Dahle, Aitkin, CUM LAUDE
 Jean Elizabeth David, Mound

Louis Graden Davis, Minneapolis,
 CUM LAUDE
 Ronald Frank Davis, Winona
 James Henry Davison, St. Paul
 Thomas Paul De Ccsare, Flushing,
 N.Y.
 John Roger De Lange, West St. Paul
 Nick Deones, Winona
 Carolyn Kerr De Witt, Kingston,
 N.Y.
 Abigail Diamond, St. Louis Park
 M. Janice Didra, Waseca
 Mary Ann Dietrich, Green Bay, Wis.,
 CUM LAUDE
 Jerrold Mark Dion, St. Paul, CUM
 LAUDE
 Martin Lee Dolan, Minneapolis, CUM
 LAUDE
 William Robert Donnelly, Virginia
 Margaret Dorich, Minneapolis, CUM
 LAUDE
 Shirley Mohr McKinnel Downes,
 Minneapolis
 Charles Westrom Drage, Minneapolis,
 MAGNA CUM LAUDE
 Judith Ann Dunn, Rochester, CUM
 LAUDE
 Saralee Dworsky, Minneapolis
 John Patrick Dwyer, Minneapolis
 Elizabeth Earl, Salt Lake City, Utah,
 MAGNA CUM LAUDE
 Charles Carver Eby, Minneapolis
 John William Eckholdt, Minneapolis
 Andrew Erik Edin, Pine City
 Ann-Britt Kristina Edlund, A.A.,
 Kenmore, N.Y.
 Margaret Ann Eide, Red Wing, CUM
 LAUDE
 David Eugene Elfstrand, Minneapolis
 Joseph Samuel Emond, Jr., Farming-
 ton, MAGNA CUM LAUDE
 Richard Bruce Empey, St. Paul
 Harry Arthur Engelbrecht, Minne-
 apolis
 Bruce Ronald Erickson, Minneapolis
 Carol Yvonne Erickson, Minneapolis
 Hartley John Erickson, Golden Valley
 Jane Elizabeth Eschweiler, Minne-
 apolis
 Gordon Edward Eull, Elk River
 Gayle Edward Evans, Springfield, Ill.

Robert Engles Evans, Excelsior
 Ronald Curtiss Evans, Fairmont
 Sandra Lee Evans, Minneapolis,
 MAGNA CUM LAUDE
 Douglas Rex Ewald, Hopkins
 William Edward Falvey, St. Paul
 John David Farr, Minneapolis
 William Ted Farrar, Spencer, Iowa
 Lowell Glenn Fassett, Minneapolis
 Marlys Merle Feder, Madelia
 Gary Lewis Filerman, Minneapolis
 Constance Mae Finch, St. Paul
 Joel Finkelstein, Minneapolis
 Howard John Fischer, New Ulm
 Karen Louise Fischer, A.A., Dodge
 Center
 Jon Bradley Fischer, Glencoe
 Robert Emmett Fitzsimmons, Jr.,
 Minneapolis
 Gary Arthur Flatten, Caledonia,
 CUM LAUDE
 Nancy Lou Flemming, Minneapolis,
 MAGNA CUM LAUDE
 Herbert Milton Freedholm, A.A.,
 Minneapolis
 Alan David Fremland, St. Paul
 LeRoy Brand Frentz, Mankato
 Richard Roy Friberg, St. Louis Park,
 MAGNA CUM LAUDE
 Barbara Ann Friedrich, Minneapolis
 Wendell Lowry Fristedt, Minneapolis
 Richard Lee Fritzsche, Minneapolis
 Kenneth N. Frolen, Proctor
 Carole Marie Gabler, Robbinsdale
 Merlin Ralph Garner, A.A., Elk
 River, CUM LAUDE
 George Howell Garnhart, Anoka
 Serge Hall Garrison, Minot, N.D.
 Robert Thomas Gavigan, Minneapolis
 Ellsworth Keith Gerritz, Manhattan,
 Kan., CUM LAUDE
 Jerome Gertz, St. Paul, MAGNA CUM
 LAUDE
 Wallace Clair Gibson, Moorhead
 Peter Charles Giefer, Minneapolis,
 CUM LAUDE
 Michael Stuart Goldman, St. Louis
 Park
 La Verne Harold Gollnick, Wautoma,
 Wis.

Teresa Anne Graff, St. Paul
 Robert Wheeler Graham, Minneapolis
 Harley Clark Greenberg, Minneapolis
 Fred Henry Griebie, Farmington
 Stephanie Kay Grossman, Minneapolis, MAGNA CUM LAUDE
 Glenn Arnold Gunderson, Glenwood
 Donald Babe Gunter, Litchfield
 Marvin Curtis Guthrie, White Bear Lake
 George Arthur Hages, Minneapolis
 Louis Edward Haga, Montevideo, CUM LAUDE
 Shirley Ann Hagberg, Faribault
 Robert Charles Hagen, Minneapolis
 Bruce Richard Halgren, Minneapolis
 Barbara Suzanne Halverson, Granite Falls
 Lawrence Hanson, Minneapolis
 Russell Galen Hanson, Benson
 William Herbert Harris, St. Paul
 Herbert Lawrence Hartshorn, Sioux Falls, S.D.
 Edward Frederick Haskins, Minneapolis, MAGNA CUM LAUDE
 Ruth Elcase Hassinger, Robbinsdale
 Frances Mavis Haugland, A.L.A., St. Paul, CUM LAUDE
 James Hauschild, Edina
 Lawrence Frederick Haverkost, Hibbing
 Thomas Fredrick Hayes, Minneapolis
 Dorothy May Heinz, St. Paul
 Robert Wayne Heinz, Ipswich, S.D., CUM LAUDE
 William Scott Henderson, Minneapolis
 Betty Mae Hendricks, White Bear Lake
 Susan Alice Hendrickson, St. Louis Park
 Andrew Watson Hepburn, Duluth
 Robert Charles Herrlich, Montevideo
 Robert Louis Hesse, Hopkins
 Arthur Cyrus Hill, Minneapolis
 Curtis Thompson Hill, Staples
 Donald Arthur Hillstrom, Jr., Minneapolis
 John Miller Hladky, Cedar Rapids, Iowa
 Calvin John Hobel, Leigh, Neb.
 Robert Cleaves Hodson, St. Paul, MAGNA CUM LAUDE
 Warren Frank Hoffman, Minneapolis
 Charles Edward Hogan, Minneapolis
 Timothy James Hogan, Jr., Minneapolis
 Charles Elmer Hohn, Mora, CUM LAUDE
 Michael Stewart Horne, Hopkins, MAGNA CUM LAUDE
 Raymond Pemberton Hornsby, London, England
 Bruce David Howard, St. Louis Park, SUMMA CUM LAUDE
 Daniel Wallace Howard, St. Paul
 Evelyn Rose Howard, Minneapolis
 Ione Doretha Hozendorf, Minneapolis, CUM LAUDE
 Allan Murray Huffman, Bird Island
 James David Hughart, Minneapolis
 Jerry Douglas Hursh, St. Paul
 Judith Ann Husebo, Edina
 Michael Hyduke, A.L.A., Minneapolis
 Robert Major Hysell, Long Prairie
 Wallace LeRoy Hystad, Minneapolis
 Carole Jean Ihrke, Austin
 Janet Gayle Ingerson, Minneapolis
 Vincent Albert Iverson, Milan
 Roger John Jackman, Rochester, CUM LAUDE
 William Charles Jacobson, A.A., Austin
 Gordon James Januszewski, Minneapolis
 David Keith Jensen, Minneapolis
 Delbert Dean Jensen, Elmore
 Thomas Paul Jensen, South St. Paul
 Marie Bren Jerabek, Minneapolis, CUM LAUDE
 Charles Loren Johnson, Helena, Mont.
 Charles Mark Johnson, Kenyon
 David Armin Johnson, Wayzata
 David John Johnson, Rochester
 James Albert Johnson, Minneapolis
 Jerome Alfred Johnson, Hopkins

Louise C. Douglass Woodford
Johnson, St. Paul
Phillip Joseph Johnson, Minneapolis
Wesley Dean Johnson, St. Paul, CUM
LAUDE
Charles Arthur Jones, A.A., Red Wing
Clyde Jerome Jorgensen, Minneapolis
John Alan Jorgenson, Minneapolis
LaMoure Darwin Kammeyer, Grants-
burg, Wis.
Harry Fred Kaphingst, St. Paul
Conrad Glenn Katzenmeyer, Hayward,
MAGNA CUM LAUDE
Henry Albert Keck, Jr., Alexandria
William Charles Keiper, St. Paul
Gerald Norman Kelly, Darwin
Patricia Kaye Kelly, Minneapolis
Mary Alice Kennedy, Minneapolis,
CUM LAUDE
Joan Gayle Kilpatrick, Minneapolis
Yong Hyok Kim, Seoul, Korea
Reuben Kitto, Jr., Minneapolis
Cletus Gerald Klein, Broken Bow,
Neb.
Archie Kleingartner, Jamestown, N.D.
Vernon L. Knudtson, Minot, N.D.
James Elling Knutson, St. Paul
James Joseph Kocourek, St. Paul
Gary Melin Kochler, Minneapolis
Thomas Arden Koelz, Worthington
Jay David Kopp, A.A., Worthington
Clayton Clarence Korgel, Minot, N.D.
Naomi Kothe, Fairhaven
Sue Lindley Krebs, St. Paul
Eugene Daniel Kretchmer, Tracy
Paul Krijger, Lake Preston, S.D.
Arnold Walter Kroll, St. Paul
Merle Lee Kruschke, Breckenridge
Caroline Rose Kruszka, Minneapolis
Daniel Roger Kuehn, St. Paul
Mary Ann Margaret Kuettner, St.
Paul, CUM LAUDE
Theodore Frederick Kuster, A.A.,
Wanatah, Ind.
Richard House Kyle, White Bear Lake
Mitchell Wayne Kyllonen, Park
Rapids
Randall Aloise LaKosky, Virginia,
CUM LAUDE
William Webster Lammers, Minne-
apolis, MAGNA CUM LAUDE
Karen Rae Landers, Fulda
John Ruddy Lang, Anoka
Harriet Virginia Larson, St. Paul,
CUM LAUDE
Sandra Sidman Larson, Glen Ridge,
N.J.
Thomas Allen Lauth, St. Paul
Donald John Laven, Minneapolis
Peter Bruce Lee, Minneapolis
Philip Norman Lee, Minneapolis
Barbara Lynn Levine, St. Paul
Merle Barry Levitt, Minneapolis
Sandra Louise Lieberman, Minne-
apolis
Calvin Eliot Lindholm, Harrisville,
Mich.
Joel Morris Lingensjo, Menominee,
Mich.
Neil Wilbert Loeding, Minneapolis
Joan Ann Logue, St. Paul, CUM LAUDE
Priscilla Laureen Lovholm, Appleton
Richard Earl Lowder, Minneapolis
David Crosgrove Lundgren, St. Paul
Lee Theodore Lynch, Belle Plaine
Gerald Ambrose Madigan, Faribault
Douglas Dean Mair, Rochester, CUM
LAUDE
Hope Jeanene Manske, Duluth
Stanley Richard Manske, Jr., St. Paul
Patricia Ann Martin, Minneapolis
Robert Arthur Martin, Excelsior
Howard Dale Martz, Sarles, N.D.
John Kermit Mattison, Minneapolis
Roger William Mc Bride, Virginia
Andrew P. Mc Clendon, Kansas City,
Mo., CUM LAUDE
Sandford Rex McDonald, Wadena
Richard John McGhee, A.A., Grand
Rapids
Jesse Howard McGrew, Jr., Minne-
apolis
Bonnie Jean McMillan, Minneapolis
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Donald Knox Melander, Duluth
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Charles Julian Erickson, Center City, Forestry
James Edmund Erickson, La Crosse, Wis., Agriculture
David Carl Feder, Mankato, Agriculture
Susan Kay Fitch, Minneapolis, Home Economics
Dorothy Jane Fuller, Amboy, Home Economics
Verlee Rodger Gjovik, Strathcona, Forestry
Janice Louise E. Berglund Glimsdal, Minneapolis, Home Economics, WITH DISTINCTION
Cornelius Peter Groothusen, Tony, Wis., Forestry
Robert John Grossman, New Prague, Agriculture
Harlene Fae Hagen, Gatzke, Home Economics
John William Hanlon, Aitkin, Agriculture
Edward Allan Hansen, La Crescent, Forestry, WITH DISTINCTION
Wayne L. Heath, Eau Claire, Wis., Forestry, WITH DISTINCTION
Patricia Susanna Heiberg, Minneapolis, Home Economics
Jerome Garfield Hildebrande, Nerstrand, Agriculture

Daniel Paul Hillstrom, Sturgeon Lake, Agriculture
 Richard Arthur Horn, Minncapolis, Forestry
 Kenneth George Huber, Montgomery, Agriculture
 Richard Mason Huff, Minneapolis, Forestry
 Karen Riis Hulbert, Pierre, S.D., Home Economics
 David Earl Johnson, Taylors Falls, Agriculture
 Lauren Edmund Jonason, Center City, Agriculture
 Gary Wayne Jones, Jackson, Agriculture
 Kenneth Frederick Kangas, Bryant, S.D., Agriculture
 Gerald Clement Kaplan, Aitkin, Forestry
 Paul Edward Kaste, Fertile, Agriculture
 Roger Chalmers King, Sr., Minneapolis, Forestry
 Elton A. Klaustermcier, Lester Prairie, Agriculture
 Warren Milton Krause, Buffalo, Agriculture
 Joan Marie Lampy, St. Cloud, Home Economics
 Sylvia Carol Larson, Little Falls, Home Economics
 Robert John Leary, Calcedonia, Agriculture
 Vernon Lee Lorenzen, St. Paul, Agriculture
 Wayne Lawrence Lough, Rochester, Agriculture
 Philip R. Lucas, White Bear Lake, Agriculture
 Eugene Paul Luetgers, Mound, Forestry
 Donovan Lyonel Lundgren, Appleton, Agriculture
 Raymond J. Lunemann, Clarissa, Agriculture
 Marvin Lee Maki, Aurora, Forestry
 Gerald Virgil McGraw, Litchfield, Agriculture
 Thomas Allen McPherron, Stillwater, Agriculture
 Donald Paul Mecklenburg, Hancock, Forestry
 John David Michels, Nashwauk, Forestry
 Neil Wayne Miles, Forest Lake, Agriculture
 Earl Anthony Monnens, Bellingham, Agriculture
 Robert Charles Munter, Dassel, Agriculture
 Madge Ann Nathe, Pipestone, Home Economics, WITH DISTINCTION
 Donald Paige Nelson, Mondovi, Wis., Forestry
 Vernal Luther Nelson, Kensington, Agriculture
 Theodore Delbert Newberg, Virginia, Forestry
 Robert Lee Norgren, Cloquet, Forestry
 Wallace Oliver Oien, Mora, Forestry, WITH DISTINCTION
 Bennett Roy Olson, Cambridge, Forestry
 Laurel Leeland Olson, Clinton, Agriculture
 Orlyn Jules Olson, Duluth, Forestry
 Edward John Peterson, Duluth, Agriculture
 Bruce Albert Ravensborg, St. Paul, Forestry
 Merlyn Wayne Rittenour, Benson, Agriculture
 Ervin W. Runck, Lamberton, Agriculture
 Lorna Lillian Russell, Winthrop, Home Economics
 Dale Earl Sauer, New Ulm, Agriculture
 Allen Jay Schacht, A.A., Rochester, Forestry
 Susan Mary Schjoll, Minneapolis, Home Economics
 Frank Luvurne Schneider, Renville, Agriculture
 Joan Frances Schottler, Austin, Home Economics
 Marvin Curtis Schrader, Northfield, Agriculture
 Charles Andrew Schroeder, Lanesboro, Agriculture

William Henry Schulz, Robbinsdale, Agriculture
 George Adolph Schwartz, Le Sueur, Agriculture
 Merle Roland Sellman, Taylors Falls, Agriculture
 Clyde Allen Shumway, Pine City, Forestry
 Richard George Sievers, Minneapolis, Forestry
 Robert William Skinner, Toddville, Iowa, Forestry
 William Skovran, Minneapolis, Forestry
 Jean Aline Smith, Bemidji, Home Economics, WITH HIGH DISTINCTION
 Frank Anders Staffenson, St. Paul, Agriculture
 Milo Eugene Stefan, Ironton, Forestry
 Walter Reinhold Sternitzke, Aitkin, Agriculture
 Eugene Joseph Stifter, Stillwater, Agriculture
 Shirley Ann Struck, Bellingham, Home Economics
 Lester John Tesch, Blakeley, Agriculture
 Richard Charles Trochliil, Springfield, Forestry
 Herbert Gene Lincoln Troester, B.A., Minneapolis, Agriculture
 Edmund Joseph Vandermillen, Dubuque, Iowa, Forestry
 Richard Clarence Walter, Buffalo Lake, Agriculture
 Virginia Marie Walters Wheelock, Tracy, Home Economics
 James Allen Wille, Donnelly, Agriculture
 Earl Kenneth Wold, Rushford, Agriculture, WITH DISTINCTION
 Arthur George Wollum II, Winnetka, Ill., Forestry
 Earl Walter Zimmerman, Johnson, Agriculture

COLLEGE OF EDUCATION

Bachelor of Science

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 Ruth Elizabeth Algren, St. Paul, WITH HIGH DISTINCTION
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 Gloria Mac Anderson, A.A., Lake Norden, S.D.
 Gwendolyn N. Anderson, Mounds View, WITH DISTINCTION
 Janice Marlene Anderson, Minneapolis
 Jean Annette Anderson, Minneapolis
 Jean Carol Anderson, Cannon Falls
 June Irene Gossler Anderson, Minneapolis
 Kathleen Phillis Anderson, Minneapolis
 Norman Lloyd Anderson, St. James
 Wayne Applebaum, St. Louis Park
 Carol Grossbach Asmus, Red Wing
 Evelyn Lancaster Bailey, Minneapolis, WITH DISTINCTION
 Jacque Roland Bakke, Minneapolis
 Sandra Marie Bame, Minneapolis
 Mary Alice Banke, Minneapolis
 Georganne Catherine Barney, White Bear Lake
 Karen Adele Bartley, Minneapolis
 Connie Lou Zipperman Beaubaire, Minneapolis
 Jerry Page Becker, North Redwood
 Shirley Becker, Minneapolis, WITH DISTINCTION
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 Janice Margaret Johnson Belland, Minneapolis
 Fay Lucile Worthman Benson, Minneapolis
 Lyle Paul Berg, Minneapolis
 Elaine Loretta Bergemann, North Mankato

Sherilee Berkovitz, St. Paul
 Warren Raymond Bloomquist,
 Brainerd
 Marilyn Kay Bode, Ceylon, WITH DIS-
 TINATION
 Margaret Hope Bodle, Brainerd
 Edward Charles Bolstad, Minneapolis
 Frank Douglas Bolstorff, B.S. Forestry,
 Grand Rapids
 Kay Diane Spears Boorsma, Minne-
 apolis
 Sharon Ann Booth, Minneapolis
 Deanne Louise Bottomley, Winneba-
 go, WITH DISTINCTION
 Daniel Richard Brophy, Minneapolis,
 WITH DISTINCTION
 Denis Marshall Brown, Minneapolis
 Richard John Brunner, Gibbon
 Vee Ann Buck, Minneapolis
 Joanne Arawanna Bullert, Rochester
 Diane Quinlan Cain, A.A., Minne-
 apolis
 Sharon Frances Capesius, B.A.,
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 apolis
 Denise Marie Carlson, A.A., Minne-
 apolis, WITH DISTINCTION
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 Calif., WITH DISTINCTION
 Barbara Beckwith Case, Tucson, Ariz.
 Virginia Claire Casey, South St. Paul,
 WITH DISTINCTION
 Margaret Magdalen Cepress, St. Paul
 Patricia Anne Cerkvenik, Mountain
 Iron
 Rose Marie Helen Chapman, Minne-
 apolis
 Cathleen Harrison Cheek, St. Paul,
 WITH DISTINCTION
 Jane Solveig Christensen, Clarkfield
 Deanne Jean Clark, Brooke Park,
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 Karen Suzette Cota, New Brighton
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 apolis
 Ralph Eastman Cullen, A.A., Minne-
 apolis
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 Barbara Rae Rosenberg Dalluge, Rob-
 binsdale, WITH DISTINCTION
 Dennis Lee Danger, Milaca
 Dianna Fay Davis, St. Paul
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 Minneapolis
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 Tracy Ellen DuToit, Chaska
 Joan Alice Duwell, St. Paul, WITH
 DISTINCTION
 Lydia Dyrliid, Rockford, Ill., WITH
 HIGH DISTINCTION
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 Minneapolis
 Kenneth Allen Eikeland, St. Paul
 Janet Marie Eklund, Minneapolis
 Richard Lee Ellson, Finlayson
 Marion Kemp Emery, Minneapolis
 Richard Alan Engen, Robbinsdale
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 WITH DISTINCTION
 Barbara Jean Erickson, Minneapolis
 Charles A. Erickson, Brandon
 Molly James Erickson, Willmar
 Phyllis Nadine Erickson, A.A., Savon-
 burg, Kan.
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 Lester Francis Fischbach, St. Paul
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 neapolis
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 Mary Felicitas Foley, Kelliher
 Gerald Edward Fontaine, St. Paul
 Carolyn Margaret Marr Forbes, Min-
 neapolis
 Ilona Marie Forsman, Virginia
 MaryJane Foster, Minneapolis
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 Rapids
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 Margaret Elizabeth Fredrikson,
 Minneapolis
 Shirley Eileen Freeberg, Minneapolis
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 Calif.
 Gretchen Lorraine Frey, St. Paul
 Rhoda Jean Friedman, Minneapolis,
 WITH DISTINCTION
 Marilyn Joyce Froberg, Karlstad
 Laverne Carl Funk, Duluth
 Theo Karen Ganschow, B.A., Minne-
 apolis
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 Wis., WITH DISTINCTION
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 Della Anne Gearty, A.L.A., Minne-
 apolis
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 Lynda Kathryn Gillespie, St. Paul,
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 Minneapolis
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 Oak, Mich.
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 Sigurd Edwin Hanson, Minneapolis
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 Gail Ruth Johnson Haugan, Big Lake,
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 apolis
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 apolis, WITH HIGH DISTINCTION
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 Paul
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 Valley
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 apolis
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 WITH DISTINCTION
 Carol Anne Johnson, Minneapolis
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 apolis
 Donna Clair Johnson, Mound
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 Jean Ann Berglund Johnson, Albert
 Lea
 John Allan Johnson, Fairmont
 Joyce Stella Johnson, Minneapolis
 Karin Elizabeth Johnson, Minne-
 apolis
 Marene Elizabeth Johnson, Minne-
 apolis
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 WITH DISTINCTION
 Signe Gretchen Johnson, Minneapolis
 Thelma Mathilda Johnson, Hoffman
 Waleta Daryl Johnson, Minneapolis,
 WITH DISTINCTION
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 Movane Madeline Julnke, A.A.,
 Comfrey
 Gretchen Mae Kaepfel, St. Louis Park
 Donald Charles Kampfer, St. Paul
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 Nancy Ann Norton Keith, B.A., Min-
 neapolis
 Darlene Alberta Kemp, St. Paul
 Jane Patricia KenKnight, Duluth
 Alice Diane Kenyon, St. Paul
 James Fletcher Kerfoot, White Bear
 Lake
 Diane Kay Kern, Zion, Ill.
 Mary Anne Olivia Kertzsch, Duluth,
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 Maripat King, Excelsior, WITH DIS-
 TINATION
 Mary Ann Kirby, A.A., Minneapolis
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 Falls
 Barbara Balkin Kirschner, St. Paul
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 Karen Lou Klansey, Bismarck, N.D.
 Kelvin Kent Kleber, Melrose
 Diana Jeane Knight, Minneapolis,
 WITH DISTINCTION
 Beverly Sue Koch, Minneapolis
 Elaine Martinson Koonce, Minne-
 apolis, WITH DISTINCTION
 Beatrice Mac Bruvold Kotz, Kensing-
 ton, WITH DISTINCTION
 Barbara Blanche Kral, New Ulm*
 Sharon Ernestra Latham Kramer,
 Waseca
 Gretchen Marie Krieger, B.A., Mason
 City, Iowa
 Charles Adolf Krump, Detroit Lakes
 Ralph Joseph Kubitz, Staples
 Beverly Christine Lien Landgraf, El-
 bow Lake
 Carolyn F. Lapp, St. Louis Park, WITH
 DISTINCTION
 Charlotte Katherine Larsen, Minne-
 apolis
 Betty Ann Larson, Mound, WITH
 DISTINCTION
 Beverly Ann Larson, Minneapolis
 Lois Marie Larson, St. Paul, WITH DIS-
 TINATION
 Richard Harold LaRue, Hopkins
 Mary Kathryn Leaf, St. Paul, WITH
 HIGH DISTINCTION

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 Nancy Louise Lersch, Red Wing
 Selma S. Levine Lieberman, Minneapolis
 Patricia Ann Lightbourn, Hastings
 Donna Mae Lightfoot, B.A., Fergus Falls
 Duane Fred Lilja, Minneapolis
 Jean Viola Lind, Minneapolis
 Cynthia Faith Litman, Duluth, WITH DISTINCTION
 Jack Morton Litowsky, Minneapolis
 Floydeen Louise Litstrom, Thief River Falls
 Barbara Carol Lobb, Excelsior
 Diane Dorothy Lockrem, Minneapolis
 Mildred Emily Loebner, Minneapolis, WITH DISTINCTION
 Ardell Harmsen Loomer, Milwaukee, Wis., WITH DISTINCTION*
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 Louise Lowry, Rochester, WITH DISTINCTION
 James Preston Lund, B.B.A., Minneapolis
 Ann Louise Lundahl, Minneapolis
 John Everett Lundsten, Waconia
 Sonja Verena Lystad, Minneapolis
 Marian Lois Machande, Minneapolis, WITH DISTINCTION
 Janice Marie MacKenzie, Minneapolis
 Patrick James MacKey, Virginia
 Gene Edward Mahs, Hutchinson
 Irene Jeanette Haglund Maki, Silver Bay
 Wayne Nels Malmberg, Minneapolis
 Mary Ellis Manning, St. Paul
 Glenn Joseph Mares, Maple Lake, WITH DISTINCTION
 Phyllis Marilyn Keller Mark, A.L.A., B.A., Minneapolis
 James Barrows Marston, Deephaven
 Mary Kenevan McConnon, Bayport
 Margaret Louise McCoy, Minneapolis
 Patricia Ann McDonald, Owatonna
 Sharon Myrna McFerran, Minneapolis
 Marlene Janice McKay, Farmington
 Mary Fraser McKeand, Minneapolis
 Suzanne L. McKendrick, St. Paul
 Janet Kay Sodergren McWilliams, Minneapolis
 Ruth Elizabeth Carey Mealey, St. Paul
 Donna Lavora Meland, Ellendale, WITH DISTINCTION*
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 Sandra Gale Merriman, Marion, Iowa
 Paula Esther Meserve, West St. Paul
 Judith Ann Middlemist, Minneapolis, WITH DISTINCTION
 Jeanette Emilie Mielke, St. Paul, WITH DISTINCTION
 Joseph Robert Milbauer, Minneapolis
 Diane Shari Miller, St. Paul
 Fay Austin Miller, A.A., St. Paul
 Jean Elizabeth Miller, St. Paul
 Judith Ann Miller, Minneapolis, WITH DISTINCTION
 Kenneth Eugene Miller, Minneapolis
 Monte Wayne Miller, Minneapolis, WITH DISTINCTION
 Russell Francis Miller, Minneapolis
 Myron Milstein, Minneapolis
 Roger Maland Montgomery, St. Paul
 Donald Nelson Moore, Hopkins
 Marlene Helen Morgan, Ellendale, N.D.
 David Liden Morin, Mound
 Richard Roland Mueller, Minneapolis
 Ned Charles Murphy, St. Paul
 Sandra Lynn Myer, St. Paul
 Jacqueline Lois Nearing, St. Paul
 Darhl George Nelson, A.A., White Bear Lake
 E. Ingvarda Nelson, Fergus Falls, WITH DISTINCTION*
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 Gretchen Sophia Nelson, Willmar
 Janet Ann Nelson, Minneapolis
 Shirley Ann Nelson, Minneapolis, WITH DISTINCTION
 Robert Wendel Nemitz, St. Paul
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- Robert Henry Niederkorn, B.A., St. Paul
- Marvelcen Anna Nielsen, Tyler*
- Pearl Ester Nielsen, A.A., Elmwood Park, Ill.
- Gerald Theodore Nordstrom, Milaca
- Jacquelyn Mae Norman, Minneapolis
- John Richard Norton, A.A., St. Paul
- James Raymond Norwick, Jr., Minneapolis
- Veronica Louise Novacek, Angus*
- John Novak, A.A., Minneapolis
- Thomas Arthur Novotny, St. Paul
- Mary Catherine O'Connor, El Paso, Ill.*
- Virginia Mae Oech, Winona
- James Richard Ogura, B.A., St. Paul
- Barbro Ann Lorraine Ohlson, Minneapolis
- Donald Arthur Olson, Bloomer, Wis.
- Donald Earl Olson, Minneapolis
- Leonard Charles Olson, Minneapolis
- Edna Sakiko Omiya, Kaneohe, Oahu, T.H.*
- Carolyn Ann Onsrud, Chicago, Ill.
- Barbara Ann Oredson, Atwater
- Priscilla Orme, St. Paul
- Caroline Janet O'Shaughnessy, B.A., Rochester
- Ruth Mae Page, B.S.O.T., Minneapolis
- Richard Francis Palumbo, B.A., St. Paul
- Margaret Pauline Parren, Three Oaks, Mich.*
- Mary Jane Parriott, Wells
- Anne Hathaway Parsons, St. Paul, WITH DISTINCTION
- Carol Louise Parsons, Minneapolis
- M. Yvonne Pauley, Lindstrom
- Corinne Elizabeth Paulson, St. Paul, WITH DISTINCTION
- Karen Jean Pearson, Minneapolis, WITH DISTINCTION
- Karen Marie Pearson, St. Paul, WITH DISTINCTION
- James Jerome Peller, Minneapolis, WITH DISTINCTION
- Sheldon Ross Peller, St. Louis Park
- Joseph Perrigo, Minneapolis
- Gretchen Perry, Minneapolis
- Carol Ellen Petersen, Minneapolis
- Carole Ann Peterson, Minneapolis
- Gail Louise Peterson, St. Paul
- Kathryn Ann Peterson, Hallock
- Merle Patricia Peterson, Walker
- Ronald Arlen Peterson, Minneapolis
- Richard Kenneth Petro, Minneapolis
- Betty June Picri, Minneapolis
- Andrew Arnold Piilola, Minneapolis
- Ileane Gay Pool, Excelsior
- Jerome Keith Porter, Hopkins
- Iris Rae Post, *Comfrey*, WITH HIGH DISTINCTION
- Gerald Leroy Prescott, Minneapolis
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- Geraldine Rajacich, Eveleth
- Bruce Carlton Rasmussen, A.A., St. Paul
- Theodore Arthur Rasmussen, Howard, S.D.
- Sandra Avis Handelman Ratinov, Evanston, Ill.
- Jerome Nels Reckdahl, Gaylord
- James Edward Reese, Lake Ronkonkoma, N.Y.
- Marlys Ann Reiswig, Minneapolis, WITH DISTINCTION
- A. Jo Ann Glasrud Riley, *New Brighton*, WITH DISTINCTION
- Margaret Alice Rinn, Minneapolis
- Joan Lorraine Rippetoe, *Wayzata*, WITH DISTINCTION
- Roberta Roehl Robison, Minneapolis, WITH DISTINCTION
- David Lloyd Rodda, Eveleth
- Richard William Rolle, Chisholm
- Mary Jo Romaniak, Minneapolis, WITH HIGH DISTINCTION
- Alice Elizabeth Romstad, Evansville, Wis.
- Ervin Nelson Rotenberry, St. Paul
- Dianne Louise Rudeen, *Golden Valley*, WITH DISTINCTION
- John Frederick Ruppel, North St. Paul
- James Arthur Ryan, St. Paul, WITH DISTINCTION

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 Darla Van Dake St. Martin, Anoka
 Anne Rae Saltzman, Minneapolis
 Karen Ruth Thrana Samels, Duluth,
 WITH HIGH DISTINCTION
 Nancy Lea Sanders, Minneapolis
 David Bruce Sanford, Minneapolis,
 WITH DISTINCTION
 Sonja Sigrid Sather, Donnelly
 Norma Catherine Mickelsen Satter-
 strom, Cambridge, WITH DISTINC-
 TION
 Carole Audrey Sauer, Cannon Falls
 Jill Alice Sawyer, Mason City, Iowa
 Judith Ann Schiel, A.A., Minneapolis
 Gerald Joseph Schluck, Minneapolis
 Ronald Bruce Schmidt, Long Prairie
 Sybil Fay Schneider, St. Paul, WITH
 DISTINCTION
 Sharon Jane Schroeder, Rock Valley,
 Iowa
 Ronald Herman Schug, Minneapolis
 Patricia Ann Ahrens Schulte, Red
 Wing
 Ramona Ann Schumm, Minneapolis
 Robert Franklin Schwankl, Minne-
 apolis
 Esta Schwartz, Minneapolis
 Fayne Thompson Scott, Hopkins,
 WITH DISTINCTION
 Elizabeth Ann Seltz, Hopkins, WITH
 DISTINCTION
 Kathleen Abbie Sherry, Minneapolis
 Marian Shervey, Minneapolis
 Charlotte Ann Bardon Sholes, St. Paul
 Zona Kathleen Simcox, Rush City
 Mary A. Hovey Simmons, B.A.,
 Minneapolis
 Dorothy Delores Goodman Sipkins,
 B.A., Minneapolis
 Barbara Diane Skarnes, Minneapolis
 Dennis Nelson Skinner, St. Louis
 Park
 Helen Diane Smallwood, St. Paul
 Natalie Elizabeth Smirnow, B.A.,
 Minneapolis
 Walter Raymond Smith, Cushing
 Elaine Lois Smullen, Arcadia, Calif.
- Karen Andrea Sorum, Edina, WITH
 DISTINCTION
 Howard Horace Spiess, Maplewood
 June Esther Splinter, St. Paul
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 neapolis
 Doris Marie Stark, St. Cloud
 Raymond Francis Starmack, Minne-
 apolis
 Mary Jean Steinmetz, Eyota
 Bruce F. Stone, A.A., Minneapolis
 Betty Ilo Strandquist, Watertown,
 WITH HIGH DISTINCTION
 Eleanor Monger Sulerud, St. Paul
 Roselyn Ann Summerfield, St. Paul
 Sylvia Louise Svendsen, Minneapolis
 Arlyce Joanne Swanson, Little Falls
 Carl Henry Swartz, Union, N.J., WITH
 DISTINCTION
 Russell Frederick Swensen, St. Paul
 Wai Yin Syn, Singapore, Malaya
 Barbara Lee Tennis, Minneapolis
 Edna Wilke Thayer, Ceylon, WITH
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 Prairie
 Shirley Marie Thompson, Thief River
 Falls
 Betty Barstad Tindall, A.A., Brainerd,
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 Mary Joan Towey, Minneapolis
 Catherine Lee Tracht, St. Paul, WITH
 DISTINCTION
 Mayleann T. Trask, St. Paul
 Martin Avery Treon, North St. Paul,
 WITH DISTINCTION
 Kenneth Merton Truax, Hastings
 Deni Yoshinobu Uejima, Minneapolis
 Joseph David Utecht, Bayport
 Jerry Burton Velick, B.B.A., Minne-
 apolis
 Vernon Melvin Vick, Minneapolis
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 Stanley Gray Vogel, Red Wing, WITH
 DISTINCTION
 Charles Frank Wagner, South St.
 Paul, WITH DISTINCTION

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 Carol Ann Walshlager, Minneapolis
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Constance Helen Walters, Thief River Falls, WITH DISTINCTION
 Mary Margaret Wang, Camp Douglas, Wis.
 John Bruce Wasson, Battle Lake
 Judith Marlene Weiner, Little Falls
 Elisabeth Lois Weis, St. Paul
 Barbara Phyllis Weisburd, St. Paul
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Jane Anne Welna, Minneapolis, WITH DISTINCTION

Catherine Ann Westerdahl, Minneapolis, WITH HIGH DISTINCTION
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*Ruth Charlotte Wickman, Minneapolis, WITH DISTINCTION**
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 Donald Klahr Willer, South St. Paul
 Robert Bernard Wolk, Minneapolis
 Carol Wood, Minneapolis
 Sylvia Fay Wood, Pine City, WITH DISTINCTION
 Helen Carolyn Yoerks, West St. Paul
 Margaret Ella Zabel, Minneapolis
 Gail Eleanor Zalik, Minneapolis

Master of Education

Blanche Ruth Becker, B.S., Benson
 Kenneth Lloyd Byerly, B.S., Normal, Ill.
 Beatrice Lofgren DeLue, B.S., Hopkins
 Emmett Anderson Heiberg, Jr., B.S., Fergus Falls
 Dale Owen Johnson, B.S., Minneapolis
 Barbara Ann Kalin, B.S., Sioux City, Iowa
 William Elmer Lundquist, B.S., Minneapolis

Lynda Jane McCaskill, B.S., Warren, Ark.
 Gerald Stephen O'Morrow, B.A., Fort Wayne, Ind.
 Lucille Viola Paulson, B.S., Grand Forks, N.D.
 Marjorie LaVonne Pirie, B.S., Plover, Iowa
 Valatrice Elaine Shrimpton, B.S., Minneapolis
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COLLEGE OF EDUCATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

Bachelor of Science

George E. Ahlgren, Cloquet, Agricultural Education, WITH DISTINCTION
 David Arnold Anderson, Lakeville, Agricultural Education
 Kenneth Lowell Anderson, Belgrade, Agricultural Education

Charles Emil Asman, Parkers Prairie, Agricultural Education
 Estrid Anna Baldwin, McGregor, Home Economics Education
 Janice Elaine Berg, Chokio, Home Economics Education

* Nursing Education Curriculum

- Marlin Rueben Berg, Willmar, Agricultural Education
- Alvin Wayne Brockway, Le Center, Agricultural Education
- Lynn Annette Carpenter, St. Paul, Home Economics Education
- Marquita Karen Christensen, Clarkfield, Home Economics Education, WITH DISTINCTION
- Robert LeRoy Dammen, Albert Lea, Agricultural Education
- Elizabeth Joan Deanovic, A.A., Gilbert, Home Economics Education
- Rose Marie Magdalen Deml, Owatonna, Home Economics Education
- Arline Margaret Dongoske, Mound, Home Economics Education
- Jean Terese Radatz Engelman, St. Paul, Home Economics Education
- Mervin Lee Freeman, Deer Creek, Agricultural Education
- Gloria Elizabeth Gaston, Minneapolis, Home Economics Education
- Allen Le Roy Gerdin, Stanchfield, Agricultural Education
- Robert Edward Granowski, Owatonna, Agricultural Education
- Philip Duane Harcey, Utica, Agricultural Education
- Carl Fredrich Hoffman, Sauk Rapids, Agricultural Education
- Hilbert John Hoof, Minneapolis, Agricultural Education, WITH HIGH DISTINCTION
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- Charles William Jewell, Warroad, Agricultural Education
- Reid Arthur Johnson, Houston, Agricultural Education
- Robert Earl Johnson, North Branch, Agricultural Education
- Harlan Leroy Johnsrud, Spring Grove, Agricultural Education
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- Roger Dean Knutson, Elbow Lake, Agricultural Education
- Janet Carol Kraft, Minneapolis, Home Economics Education
- Howard Fredrick Kramin, Renville, Agricultural Education
- Donald LeRoy Langworthy, Vernon Center, Agricultural Education
- Naomi Jeanne Larson, Verndale, Home Economics Education, WITH DISTINCTION
- Karl Alvie Lind, Houston, Agricultural Education
- Mary Anne Lindgren, North Branch, Home Economics Education, WITH DISTINCTION
- Lois Elaine Lunneborg, Minneapolis, Home Economics Education
- Janean Frieda Meyer, Sanborn, Home Economics Education, WITH DISTINCTION
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- Travis Nickolai Nelson, Saginaw, Agricultural Education
- Jane Marie Nieters, Cook, Home Economics Education
- Constance Rae Nord, Minneapolis, Home Economics Education, WITH HIGH DISTINCTION
- Gretchen Jane Oberhauser, Minneapolis, Home Economics Education
- Deloris Marie Olson, Hutchinson, Home Economics Education
- Genevieve Lou Olson, Mound, Home Economics Education, WITH DISTINCTION
- Margaret Joan Nelson Olson, Roseau, Home Economics Education
- Jon Alan Palmberg, Valley Springs, S.D., Agricultural Education
- Rosemary Patricia Penney, Winnebago, Home Economics Education
- Ardys Ella Petersen, Hayfield, Home Economics Education
- Evelyn Margaret Burzlaff Peterson, West Concord, Home Economics Education, WITH DISTINCTION
- Norman Emmert Peterson, Forbes, Agricultural Education
- Frances Jean Randall, Austin, Home Economics Education

- Dale William Rock, Northfield, Agricultural Education
- Joan Elizabeth Roth, Minneapolis, Home Economics Education, WITH DISTINCTION
- David Evan Rued, Big Lake, Agricultural Education, WITH DISTINCTION
- Marlene Joan Salmela, Sebeka, Home Economics Education
- Wilmar Lawrence Salo, Eveleth, Agricultural Education
- Rolyn Erling Samuelson, Clinton, Agricultural Education
- Robert A. Seefeldt, Nassau, Agricultural Education
- Faith Lorene Seymour, Alden, Home Economics Education
- Susan Sinclair, Minneapolis, Home Economics Education, WITH DISTINCTION
- Joyce Marie Stevens, Montevideo, Home Economics Education
- Marian Elaine Stivers, Minneapolis, Home Economics Education
- EdnaAnn Strainline, Minneapolis, Home Economics Education
- James William Tader, Staples, Agricultural Education
- Reynold Walter Ward, St. Vincent, Agricultural Education
- Rita Rae Weldy, Fairfax, Home Economics Education, WITH DISTINCTION
- Joan Lee Whitney, St. Paul, Home Economics Education, WITH HIGH DISTINCTION

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

- Kenneth Jon Andersen, St. Louis Park
- Arvid William Anderson, Edina
- Kenneth John Franklin Anderson, Red Wing
- Kenneth Wilbert Anderson, Minneapolis
- Marcia Elaine Anderson, Minneapolis
- Richard Alden Anderson, Minneapolis
- Charles Lewis Ashley, Minneapolis, WITH DISTINCTION
- Harvey Berton Asmus, Bricelyn
- Alan Glen Atha, Minneapolis
- James Lougee Atherton, Bloomington
- Wayne Franklin Babbitt, New Brighton
- William Thomas Bailey, A.A., Minneapolis
- George Arlan Bardahl, St. Louis Park
- Lawrence Frederick Barnes, B.S.L., LL.B., St. Paul
- Richard Walter Bebel, St. Paul
- James Randall Becker, St. Paul
- Arthur Clarence Bell, Jr., B.S., St. Paul
- Richard Allen Berner, Minneapolis
- Calvin Byron Blomquist, B.S., Minneapolis
- Martin Micheal Boehne, White Bear Lake
- Fosten Annett Boyle, Mahtomedi
- Richard Neemes Bracher, St. Louis Park, WITH DISTINCTION
- Donald LeRoy Broen, Minneapolis
- Arthur Mark Bucholz, B.Geol.Eng., Milbank, S.D.
- Robert Sheldon Burk, Minneapolis
- James William Burns, Marshall
- Carl Eugene Carlson, Jr., Minneapolis
- Joyce Karen Carlson, Minneapolis
- Richard Donovan Carlson, B.A., Robbinsdale
- Arthur Lloyd Christensen, Minneapolis
- Thomas Dominic Chrosniak, Jr., St. Paul
- Curtis Duane Close, Colfax, Wis.
- Melvin Ira Curtiss, Virginia
- Beverly Ann Danielson, Hopkins
- Curtis Clarence Danielson, Hopkins
- Glen Edward Dobberpuhl, Alexandria
- Ferdinand John Dobbmeyer, B.A., Wishek, N.D.
- Bernard John Driscoll, Prescott, Wis.
- William Ray Duck, St. Louis Park

Joseph Manly Dufort, Minneapolis
 Dennis Robert Emmen, Clara City
 Gerald Evertt Engstrom, St. Paul
 Grant David Erickson, Park Ridge,
 Ill., WITH DISTINCTION
 Lawrence Edward Erickson, Biwabik
 Nicholas Edward Even, Excelsior
 James Walter Faricy, St. Paul
 James Edward Finnegan, Owatonna
 Harley Lee Flood, Jr., Winnipeg,
 Canada
 Thomas Wilbur Flynn, Stillwater
 Donald Louis Fowler, La Crescent,
 WITH DISTINCTION
 Patricia Kay Foy, Edina
 John Charles Franke, St. Cloud, WITH
 DISTINCTION
 Roger Marlyn Fundingsland, Monte-
 video
 Merle Orvin Gamm, Anoka
 Harold John Garvin, Jr., St. Peter
 John Henry Gihlstorff, Red Wing
 Alice Marie Gorham, Big Lake
 Richard William Goulet, St. Paul
 Jay Herbert Grant, B.S.L., St. Paul,
 WITH DISTINCTION
 Alvin Eugene Gravelle, Minneapolis
 Michael Edward Greengard, Minot,
 N.D.
 Thomas George Gruidl, Minneapolis
 Patrick Alexander Hart, St. Paul, WITH
 DISTINCTION
 James Arthur Haxton, St. Paul
 Philip Norman Hayes, Detroit Lakes
 Richard John Higgins, Minneapolis,
 WITH DISTINCTION
 Donald John Hill, Austin
 Stanley James Hille, Spicer, WITH
 DISTINCTION
 Ronald Richard Hinrichs, Minne-
 apolis
 Lyle Richard Hughes, A.A., Fergus
 Falls
 Norman William Hyska, South St.
 Paul
 Charles Baker Hyslop, Fergus Falls
 Joan LaVerne Johnson, A.L.A., Mar-
 engo, Wis.
 Kenneth Earl Johnson, Minneapolis,
 WITH DISTINCTION
 Jerome Walter Kaufer, St. Paul
 Richard Edwin Kenny, Minneapolis
 Layton George Kinney, Browns Valley,
 WITH DISTINCTION
 Victor William Kirsch, Maple Plain
 Donald Frederick Klassy, Hopkins
 Paul Frederick Kokesh, Hopkins
 Richard Thomas Kolbinger, Becker
 Lee Charles Krueger, Sleepy Eye
 Bertil Edward Larson, Minneapolis
 Lawrence Joseph Latterell, Kelliher,
 WITH DISTINCTION
 Russell John Lawrenz, Austin
 Robert Francis Lawson, Chicago, Ill.
 Robert Lee Lindquist, Waterville
 Wayne Cordell Lofsness, Minneapolis
 Lester John Lundquist, Minneapolis
 Milton Stanley Lysdahl, Minneapolis
 Richard Marrinson, St. Paul
 Robert Scott Matchan, St. Louis Park
 Edwin D. Maynard, Hopkins
 Jean Carrol McBride, Stewart
 Gerald Joseph McCoy, Rochester
 Donald Everett McDonough, Detroit
 Lakes, WITH DISTINCTION
 Lowell Ansgard Medin, A.L.A.,
 Lindstrom
 Robert Lawrence Meehan, Minne-
 apolis
 Charlotte K. Nelson Melby, Indian-
 apolis, Ind.
 Merle DeWayne Menssen, Butter-
 field, WITH DISTINCTION
 Richard John Meyer, St. Paul
 David William Miley, Grove City
 David Edward Miller, Minneapolis
 Lewis Norton Mirviss, A.A., Minne-
 apolis
 Arlen Harold Missling, Jeffers, WITH
 DISTINCTION
 Louis Alfred Monitor, Jr., St. Paul
 Peggy Dee Mullick, McCallsburg,
 Iowa, WITH DISTINCTION
 Allan Richard Nelson, Motley
 John Brissman Nelson, St. Paul
 Wallace Warren Nelson, Newport
 Frank Nicholas Neu, Aurora, Ill.
 Delwyn Eugene Olson, Alvarado
 Leo Elwood Olson, Annandale
 Roger Thomas Ormand, A.A., Roch-
 ester, WITH DISTINCTION
 Richard Dee Osburn, Albert Lea

Ramon Charles Parker, Watertown, S.D.
 Robert Dana Parshall, Minneapolis
 Clyde Earl Pemble, St. Paul
 Dennis Earl Peterson, Harmony
 Frederick August Pillet, St. Paul
 Gail Winifred Plant, St. Paul
 Richard George Plufka, St. Paul
 Jerome Dean Randgaard, Richfield
 Frank Richard Rawlins, St. Paul
 John A. Rieder, Buffalo
 Philip David Roberts, Mound
 Lloyd Louis Robinson, St. Paul
 Dante John Rossini, Jr., St. Paul
 Wendell Thoreson Saline, St. Paul
 Mark William Schiedinger, Minneapolis
 Marcus Frederick Schmidt, St. Paul
 Richard Dean Schneider, Edina
 Bernard James Semanko, Triumph
 Robert Frank Shimota, A.A., Minneapolis
 Chris Philip Steffen, Minneapolis
 David Lauritz Street, Moose Lake
 Eugene Earl Sundt, Minneapolis
 Richard Bremer Swanson, St. Paul
 Robert Erwin Tanner, Jr., Edina
 Robert Duane Thompson, Eagle Bend
 Stanley Paul Thompson, Faribault

Robert Dale Tinklenberg, Edgerton
 Walter Donald Todish, Minneapolis
 Roger David Tonsager, Eagle Bend
 Ralph Stephen Towler, Minneapolis,
 WITH DISTINCTION
 Herbert F. Trader, Minneapolis, WITH
 DISTINCTION
 James Howard Turbenson, Spring
 Valley
 David Horace Vaala, Madison
 Roger Charles Vergin, Brainerd
 Gerald Robert Wallin, A.L.A., St.
 Paul
 John Hoff Weber, Highmore, S.D.
 Sheldon Zollie Wert, Minneapolis
 Murray Robert Williamson, Winni-
 peg, Canada
 Norman Howard Wincer, St. Louis
 Park
 James Joseph Winkels, LeRoy, WITH
 HIGH DISTINCTION
 Edsall Colver Wood, Jr., Albert Lea
 William Howard Woxman, Minne-
 apolis
 George Edson Wright, Minneapolis
 Douglas Arthur Wubbels, Preston
 Vernon Arthur Yaeger, St. Cloud
 Josef John Zeman, St. Paul

Bachelor of Science in Business

Lawrence Neil Burger, St. Paul
 Harry Delizonna, St. Paul
 Dennis LeRoy Durigan, Minneapolis
 Jerry Dale Kline, Minneapolis
 George Allen Knutson, Moorhead
 David Edwin Maranz, B.S., White
 Cloud, Mich.
 William Franklin Messerli, Minne-
 apolis
 Alan John Notvik, Minneapolis

Darrell S. Olson, Mora
 Graydon Jerome Patterson, Austin
 Robert Bruce Patterson, Austin
 Eugene Walter Preuss, Jasper
 Richard Lee Primus, Minneapolis
 Thomas Howard Reick, Minneapolis
 Henry Butler Roberts, Duluth
 Paul Robert Westgard, Willmar
 David Louis Williamson, Minneapolis

Bachelor of Science in Economics

Charles Fredrick Blumke, A.L.A.,
 Minneapolis
 Kenneth Adolf Earnest, Duluth
 Richard Raymond Finch, Minneapolis
 James Henry Gillespie, Pine City,
 WITH HIGH DISTINCTION

John Paul Hiniker, Hastings
 Walter Warren Mergens, St. Paul
 Daniel Paul Ott, Minneapolis
 Fay Arlon Seemann, Windom
 Charles Hatch Stoddard, Jr., St. Paul
 Lowell Donald Uber, Minneapolis

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

Bachelor of Agricultural Business Administration

Charles Dean Angus, Minneapolis
Roger Keith Bergman, Isanti
*Anthony John Eggert, St. Paul, WITH
HIGH DISTINCTION*
Richard George Godfrey, A.A., White
Bear Lake

Bernard Henry Grootwassink, Ken-
neth
Donald Ernest Olson, Lake City
Daniel Mark Peterson, Finlayson

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Berkley Clinton Alexander, Red Wing
Roger Kenneth Becker, Minneapolis
James Willam Brunner, Plainview
Richard Donovan Carlson, B.A.,
Robbinsdale
John Robert Diebel, St. Paul
Patrick William Dodge, Minneapolis
Diane Elizabeth Erickson, St. Paul
Michael Maurice Friedman, A.L.A.,
Minneapolis
John Curtis Hillestad, Fairmont
Carl Richard Ingebrigtsen, Westbrook
Malle Koff Jaska, Viljandi, Estonia
Biruta Kaulens, Sigulda, Latvia
Roger Francis Kelzer, Waconia

Ronald Owen Lien, Underwood
Stanley Howard Markson, Minne-
apolis
Thomas Mack Olive, Minneapolis
Ralph Eino Pesonen, Aurora
Theodore Glen Ranheim, Minne-
apolis
Joseph Lee Sing, Minneapolis
Enok Dixen Sorensen, Askov
Frederic Whitman Weeks, Minne-
apolis
Robert Arvid Westby, Minneapolis
Harold Gladstone Whitfield, Jr.,
Hastings
Louis Fredrick Wolter, St. Paul

LAW SCHOOL

Bachelor of Science in Law

Richard James Battis, St. Paul
James Clifford Beckstrom, Minne-
apolis
Michael Albin Berens, Rochester
Jerrold Frederick Bergfalk, Minne-
apolis
Louis Waldemar Claeson, Jr., Min-
neapolis
James Michael Connolly, St. Paul

William Bernard Edwards, Minne-
apolis
Gerard Dean Hegstrom, Braham
Donald Roy Herbert, Minneapolis
Lynn James Hummel, Garrison, N.D.
Ronald Adair Jacks, Litchfield
Lester Raymond Karjala, Menahga
Richard Luke Matykiewicz, St. Paul
Curtis Leroy Melberg, St. Paul

Robert Willard Murnane, St. Paul	Ralph Donald Stenseth, Chisholm
Ronald Jay Nemer, St. Paul	Richard Johannes Sundberg, St. Paul
Roger Allen Nurnberger, Minneapolis	John Trygve Troan, Minneapolis
William John Platzter, Minneapolis	James Lohrn Wahlfors, Minneapolis
John Dale Rice, Caledonia	Robert B. Whitlock, Morningside
Dale Adair Simonson, Minneapolis	Lawrence Albert Willey, Minneapolis
Harlan Elliott Smith, A.L.A., Minneapolis	Robert Vernon Wurm, Bird Island
	William Joseph Yaeger, Minneapolis

Bachelor of Laws

Duane Clair Anderson, B.A., Minneapolis	Richard Joseph Fitzgerald, B.S.L., Minneapolis
Thornton P. Anderson, B.A., Minneapolis	Charles Thomas Flett, B.A., Clarkfield
Richard James Battis, St. Paul	Gerald Byrne Forrette, B.A., Adrian
Michael Albin Berens, Rochester	Jay Herbert Grant, B.S.L., St. Paul
Jerrold Frederick Bergfalk, Minneapolis	John William Harrigan, B.A., Stillwater
Bernard John Bischoff, B.S., Hibbing	Gerard Dean Hegstrom, Braham
Bruce Winthrop Blackburn, B.A., St. Louis Park	Donald Roy Herbert, Minneapolis, CUM LAUDE
Frederick Joseph Boyne, B.S.L., Mankato	Alfred Lucas Hoedeman, B.A., Minneapolis
Arland Duane Brusven, B.A., B.S., Barnesville, CUM LAUDE	Ronald Charles Howard, B.A., Minneapolis
Jack Leland Chestnut, B.A., Minneapolis	Earl H. A. Isensee, Jr., B.A., Minneapolis
John Galland Clark, B.B.A., Park Rapids	Ronald Adair Jacks, Litchfield, CUM LAUDE
Edward Marshall Cohen, B.A., M.B.A., St. Louis Park	John Charles Johanneson, B.S., Moorhead, MAGNA CUM LAUDE
Thomas Edward Collins, B.A., Minneapolis	Larry Walter Johnson, B.S.L., Princeton
Sam Thomas Courey, Jr., B.A., Lennox, S.D.	James Arnold Kaehler, B.A., Red Wing
Patrick Joseph Creamer, A.L.A., B.A., Minneapolis	Lester Raymond Karjala, Menahga
Harold James Dahl, B.S.L., B.S.B., Duluth	Roger Franklin Karon, B.B.A., Duluth
Lin B. Densmore, B.S., San Francisco, Calif.	Eugene Henry Keating, Jr., B.A., Minneapolis, CUM LAUDE
David Ferdinand Durenberger, B.A., Collegeville	Ryan Clifford Knapp, B.S.L., Worthington
Richard Warner Edblom, B.A., Oakes, N.D.	Richard Luke Matykiewicz, St. Paul
Charles R. Edelstein, B.S.L., Hibbing	Gary Jon Meyer, B.S.L., Robbinsdale, CUM LAUDE
Miles Ephraim Efron, St. Paul	Robert Joseph Miller, B.S.L., St. Cloud, CUM LAUDE
Morris Tedd Evans, Jr., B.A., Pipestone	Carl Flagstad Moore, B.A., Minneapolis

Ancy L. Tone Morse, B.S.L., International Falls
 Robert Willard Murnane, St. Paul
 Harlan Lloyd Nelson, B.A., Litchfield
 Lawrence Eugene Nerheim, B.A., Minneapolis, CUM LAUDE
 Charles Duane Nyberg, B.S.L., Henning
 Ronald Duane Olson, B.A., St. Paul
 David Lyle Phillips, B.A., Minneapolis
 William Roy Rosengren, B.S.L., Minneapolis
 Stephen Cooper Samels, B.S.L., Minneapolis
 Stephen Burns Scallen, B.A., Minneapolis, CUM LAUDE
 Leslie Stanley Shapiro, B.S.L., Duluth
 Dale Adair Simonson, Minneapolis
 Robert Lowell Smith, B.A., Crystal
 Bernard Edward Steffen, B.A., Plainview
 Philip Mills Stone, Jr., B.B.A., Virginia
 Richard Johannes Sundberg, St. Paul
 Robert Clarence Swenson, A.L.A., B.S.L., Robbinsdale
 Herman Lou Talle, B.A., Anoka
 Ralph Stephen Towler, Minneapolis
 James Lohrn Wahlfors, Minneapolis
 Lawrence Albert Willey, Minneapolis
 Robert Edward Willow, B.S.L., Minneapolis
 Robert Vernon Wurm, Bird Island
 William Joseph Yaeger, Minneapolis
 Charles Thomas Yarusso, B.A., St. Paul
 Ronald Otto Winston Ylitalo, B.S.L., Floodwood
 Lawrence Zelle, St. Paul
 Richard Samuel Ziegler, B.B.A., M.B.A., St. Paul

COLLEGE OF VETERINARY MEDICINE

Bachelor of Science

Neil Vincent Melvin Anderson, B.S. Educ., St. James, WITH DISTINCTION
 Ronald Dwain Anderson, B.S.Ag.Ed., Halstad
 Miles H. Bairey, St. Paul
 John Bakker, Chandler
 Frederick C. Borgwardt, Milton Junction, Wis.
 William Theodore Burke, Lakefield, WITH HIGH DISTINCTION
 Rodney Lewis Ellefson, Garretson, S.D.
 Delvin Clyde Feistner, Woonsocket, S.D.
 Thomas Frederick Field, Minneapolis, WITH DISTINCTION
 Paul Henry Fynskov, Osakis
 Charles Dean Gibson, Onamia
 John Cyrus Gregg, B.A., Cherokee, Iowa
 Mylo Maurice Hagberg, Faribault, WITH HIGH DISTINCTION
 Ronald Bernard Hass, Tenstrike
 Duane Eugene Hilmas, Virginia
 Duane Edgar Huwe, Benson
 Ralph Arnold Johnson, Granada, WITH DISTINCTION
 Aanon Rolf Jore, Houston
 Hans Sanford Kalinka, Waupaca, Wis., WITH DISTINCTION
 George Henry Krienke, Wausau, Wis.
 Clifford Carl Laurence, Hanska
 Donald Wayne Luchsinger, Onamia
 Warren William Marquardt, St. Paul, WITH DISTINCTION
 Bruce Al Muggenburg, Sioux Falls, S.D., WITH DISTINCTION
 Robert Dale Nelson, Lanesboro
 Rodney Foster Neubert, Mankato
 John Andrew Newman, St. Paul, WITH DISTINCTION
 Ralph Arden Nordine, Lancaster
 Henry Arthur Pattison, St. Paul
 Wayne Russell Peterson, Minneapolis
 Bennett Jay Porter, Jr., St. Louis Park
 Richard Henry Richards, Herman
 David Peter Sanger, B.A., Mankato

Richard Harold Schultz, St. Paul,
WITH HIGH DISTINCTION
Jerry Bruce Stevens, Minneapolis,
WITH DISTINCTION
Edgar J. Taggatz, Gibbon
Charles Orel Thoen, Harmony

Frederick Myron Wells, River Falls,
Wis.
Glen George Wolff, Arlington
Robert William Woolsey, Minne-
apolis

Doctor of Veterinary Medicine

Frederick J. Alderink, B.S., McGrath
Norbert Edward Algiers, B.S., Hart-
ford, Wis.
Carsten David Anderson, B.S., Fertile
Martin Elisha Bergeland, Jr., B.S.,
Dawson
William Nicholas Brascugli, B.S.,
Eveleth
James Allen Burns, B.S., Richland
Center, Wis.
Raymond Clarence Callstrom, Jr.,
B.S., Red Wing
Richard Ernest Dierks, B.S., Flan-
dreau, S.D.
Charles William Extrand, B.S.,
Brainerd
Charles Joseph Farho, B.S., South St.
Paul
Delmar Roy Finco, B.S., Kettle River
Robert James Fischer, B.S., Shawano,
Wis.
Lloyd Charles Foss, B.S., Sarona, Wis.
Peter Harold Franz, B.S., Mountain
Lake
Carlton Stewart Graves, B.A., Rice
John Cyrus Gregg, B.A., Cherokee,
Iowa
Thomas Joseph Hagerty, B.S., Waseca
Dale Lary Haggard, B.S., Luverne
Frank Walter Hazard, B.S., Thief
River Falls
Edward Francis Jankus, B.S., St. Paul
Roland Stanley Jeans, B.S., Osceola,
Wis.
David Conrad Johnson, B.S., Fair-
mont
Robert Rothnick Jorgensen, B.S.,
Columbus, Wis.
James Robert Juhl, B.A., Luverne

James Nathaniel Kamp, B.S., Minne-
apolis
John Carl Landman, B.S., Larimore,
N.D.
James Andree Libby, B.S., Minne-
apolis
George Robert Nelson, B.S., Mankato
Robert Dale Nelson, Lanesboro
Jerome Eugene Palet, B.S., Green Bay,
Wis.
Donald Henry Person, B.S., Monte-
video
Hans Dennis David Peterson, B.S.,
Glenwood
Thayer Eugene Porter, B.S., St. Louis
Park
Dennis Peter Rahn, B.S., Mountain
Lake
William Paul Rogers, B.S., Chippewa
Falls, Wis.
William Thomas Thompson, B.S.,
Montevideo
Alfred C. Trumble, B.S., Long
Prairie
John Martin Turnbull, B.S., Rock-
dale, Wis.
Lloyd Franklin Van Pelt, B.S., Austin
George Theodore Walters, B.S.,
Stewartville
Thomas William Wanous, B.S., Owa-
tonna
Robert Jerome Weiner, B.S., Colum-
bus, Wis.
Shannon Carl Whipp, B.S., Minne-
apolis
Thomas Matthew Willmus, B.S., St.
Paul
Wilford Alfred Wohlin, B.S., New
London

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

Elizabeth Ann Bloomer, Wayzata
Janice Marie Carlson, Minneapolis
Mary Jo Craig, Grand Rapids
Judith Roberts Damp, Bemidji
Carol Ann Dickson, St. Paul
Jean Ann Dougall, Minneapolis
Marlys June Erickson, Minneapolis
Gail Elizabeth Fossum, Minneapolis
Penelope Karen Gerbert, Minneapolis
Jean Marie Hackborn, Edina
Virginia Kathleen Hoff, Bagley
Janice Lee Hunt, Tomah, Wis.
Janelle James, Berwyn, Ill.
Barbara Carol Jenniges, Minneapolis
Lorraine Eloise Johnson, Owatonna
Annalee Kapel, St. Louis Park
Marlene Ann Lepper, Grand Rapids
Katherine Wilhelmina Lindig, St. Paul

Mary Barbara Lundmark, Rice Lake, Wis.
Jeanine Phare Lux, Billings, Mont.
Sandra Lee Meyer, Madison, Wis.
Kay Elizabeth Nelson, Pine City
Jane Hustad Osterberg, Alexandria
Barbara Stella Ouellette, Minneapolis
Carole Jean Ozwoeld, Minneapolis
Janice Marie Pehrson, Minneapolis
Janice Lee Reed, Rockville, Neb.
Susan Leigh Roberts, Peoria Heights, Ill.
Karan Ruth Schlong, Hopkins
Janet Ann Shank, West St. Paul
Lois Ann Swenson, A.A., Roseau
Lorna Mae Janet Underthun, A.A., Danvers
Teresa Ann Walsh, Minneapolis
Mary Alice Warpeha, Minneapolis

Bachelor of Science

Jack Brice Anderson, Littlefork, WITH DISTINCTION
Jerald Clayton Anderson, North Branch
Loye Andersen Ashton, Williston, N.D.
Herbert Stanley Austin, Minneapolis
Jerry Edward Barnes, St. Paul
Robert Craig Birch, Minneapolis
Leonard Everett Boeder, Brainerd
Allan John Bornholdt, Princeton
Dwain Sylvester Breitbach, Minneapolis, WITH DISTINCTION
Willard Charles Brunson, Jr., Bismarck, N.D.
Charles Henry Buscher, Brainerd
Lewis Roman Byzewski, Minto, N.D.
Larry Wayne Carrow, Minneapolis
Wallace Lynne Christenson, Minneapolis
Thomas J. Conlon, Faulkton, S.D.
Alan Irwin Covin, Minneapolis
Lawrence Harold Covin, B.A., Minneapolis

Gordon Victor Doering, B.A., St. Paul
John Z. Doroschak, Minneapolis
Gary Lee Floyd, Boise, Idaho, WITH DISTINCTION
Mason Benjamin Frank, Minneapolis
Larry Victor Franz, Mountain Lake
Roger Frank Fredeen, Minneapolis, WITH DISTINCTION
Raymond Orval Garland, Staples, WITH DISTINCTION
Owen Neil Germundson, Karlstad, WITH DISTINCTION
Daniel Edward Hanson, Detroit Lakes
Jerome Kingsley Hanson, B.A., Appleton
Louis John Hendrickson, Minneapolis
Richard Allen Hewitt, Albert Lea
Alan Edward Hribar, Hibbing
John Corlis Huntley, St. Paul
Paul Iverson, Willmar
Clement Jeffrey Jacobson, Willmar, WITH DISTINCTION
Delbert Dean Jensen, Elmore

Earl Eino Johnson, Hibbing
 Edward Neil Johnson, Alcester, S.D.
William Oliver Johnson, Duluth,
 WITH DISTINCTION
 Paul Wayne Jorgensen, Minneapolis
 Roland Raymond Kotowski, Ivanhoe
 Daniel Ainsworth Larson, Minneapolis
 Wayne Joel Larson, Monticello
 James Bradley Lawson, Duluth
 James Allan Lien, B.A., St. Cloud
 Franz Elmer Linden, Great Falls,
 Mont.
 Robert Allan Lysgaard, B.A., Moor-
 head
 Thomas Irwin Malmend, Glendive,
 Mont.
Ronald Sherman McCollor, St. Paul,
 WITH DISTINCTION
 Clayton Andrew McKinney, Ashland,
 Wis.
 Dean Shya Medof, A.L.A., Minne-
 apolis
 Richard Drake Mellin, St. Paul
 George William Meyer, Minneapolis
Michael Joseph Moga, St. Paul, WITH
 DISTINCTION
 Alan Dean Mogck, Minneapolis
 Roy Yukio Nakamoto, Wailuku,
Maui, Hawaii, WITH HIGH DISTINC-
 TION
 David Thomas Nemanic, Aurora
 Kenneth John Nordberg, B.A.,
 Minneapolis
Merrill Wisner Packer, B.S., Minne-
 apolis, WITH DISTINCTION
 James Ronald Palmquist, Minneapolis
Dennis Theodore Peterson, Milaca,
 WITH DISTINCTION
 Jerry Douglas Peterson, Minneapolis
 Wayne Donald Peterson, Benson
 Richard David Pihlstrom, Minneapo-
 lis
 Willard Louis Powell, Vermillion,
 S.D.
 Roger William Ranfranz, Rochester
 Robert Shelton Redman, Brookings,
 S.D.
 Thomas George Reichert, B.A., Rich-
 mond
 Ronald Gene Rhoades, Prior Lake
 Otto Franz Ringle, B.A., Walker
Murray Ralph Robinovitch, Brandon,
Manitoba, Canada, WITH HIGH DIS-
 TINATION
Robert Dale Rohmers, Dillon, Mont.,
 WITH DISTINCTION
Curtis Alan Rohrer, Winona, WITH
 DISTINCTION
 William Ruben Sabes, St. Louis Park
 Albertus Schelhaas, Edgerton
Roy Stuart Schwartz, Sleepy Eye,
 WITH DISTINCTION
 John David Smith, Jr., St. Paul
 Leonard Carl Smith, Minneapolis
 Paul Gerald Smith, Cambridge
 Aubrey Neal Stephens, Boise, Idaho
 Duane Keith Sween, B.A., Minne-
 apolis
John Arthur Takala, St. Paul, WITH
 DISTINCTION
 John Floyd Van Valkenburg, Bloomer,
 Wis.
 John David Vogel, South St. Paul
 Robert William Weinrich, B.A.,
 Rochester
Jerome Lawrence Welna, B.A., Min-
 neapolis, WITH DISTINCTION
Frederick Louis Whitsell, B.S.B., Em-
 mett, Idaho, WITH DISTINCTION
 Thomas Francis Zack, St. Paul
 Joseph Louis Zbacnik, Hibbing

Doctor of Dental Surgery

Herbert Ralph Achenbach, B.S.,
 Bemidji
 Walter J. Ackerman, B.S., Minne-
 apolis
 Jerald Clayton Anderson, North
 Branch
 Jerry Edward Barnes, St. Paul
 Robert Craig Birch, Minneapolis
 Leonard Everett Boeder, Brainerd
 Allan John Bornholdt, Princeton
 Dwain Sylvester Breitbach, Minne-
 apolis

Jack Leroy Brinkman, B.S., Kalispell,
 Mont.
 Willard Charles Brunsoman, Jr., Bis-
 marck, N.D.
 Lewis Roman Byzewski, Minto, N.D.
 Larry Wayne Carrow, Minneapolis
 Alan Irwin Covin, Minneapolis
 Lawrence Harold Covin, B.A., Min-
 neapolis
 Leonard David Crockett, B.S., B.A.,
 Rochester
 Robert Lynn De Valois, B.S., Zum-
 brota
 Gordon Victor Doering, B.A., St. Paul
 Raymond Orval Garland, Staples
 Clarence Victor Gorder, B.S., Pop-
 lar, Mont.
 Lyle Glenn Grosz, B.S., Beulah, N.D.
 James Patrick Haas, B.A., B.S.,
 St. Louis Park
 Louis John Hendrickson, Minne-
 apolis
 James Mateland Herbert, B.S., Sioux
 Falls, S.D.
 Richard Allen Hewitt, Albert Lea
 Clement Jeffrey Jacobson, B.A.,
 Willmar
 Kenneth Fremont James, B.S., Min-
 neapolis
 Earl Eino Johnson, Hibbing
 Edward Neil Johnson, Alcester, S.D.
 Orlen Norman Johnson, B.S., Sioux
 Falls, S.D.
 William Oliver Johnson, Duluth
 William Richard Johnson, B.S., St.
 Paul
 Paul Wayne Jorgensen, Minneapolis
 Roland Raymond Kotowski, Ivanhoe
 David Paul Krueger, Walker
 Ralo Hugo Kuhl, B.S., Sherwood,
 N.D.
 Reuben Dale Larson, B.A., B.S., Min-
 neapolis
 Robert A. Lauer, B.S., Winona
 James Allan Lien, B.A., St. Cloud
 Franz Elmer Linden, Great Falls,
 Mont.
 Harold Truman Lindquist, B.S., Oklee
 David William Longworth, B.S.,
 Monticello
 Paul Munson Lundeberg, B.S., Min-
 neapolis
 Robert Allan Lysgaard, B.A., Moor-
 head
 Thomas Irwin Malmend, Glendive,
 Mont.
 Bertrum John McCarthy, B.A., Green
 Isle
 Clayton Andrew McKinney, Ashland,
 Wis.
 Dean Shya Medo, A.L.A., Minneapolis
 Richard Perry Meyer, B.S. with high
 distinction, Minneapolis
 Alan Dean Mogck, Minneapolis
 Edward Theodore Nelson, B.S., Ken-
 nedy
 John Franklin Nelson, B.S. with dis-
 tinction, Buhl, Idaho
 David Thomas Nemanic, Aurora
 Imants Robezgruntnieks Niels, Min-
 neapolis
 Brendan Weldon O'Brien, B.S., Belle
 Plaine
 Merrill Wisner Packer, B.S., Minne-
 apolis
 James Ronald Palmquist, Minneapolis
 Dennis Theodore Peterson, Milaca
 John Broman Pike, B.S., St. Cloud
 Roger William Ranfranz, Rochester
 Robert Shelton Redman, Brookings,
 S.D.
 Thomas George Reichert, B.A., Rich-
 mond
 Wesley H. Rethwill, Jr., B.S., Waseca
 Ronald Gene Rhoades, Prior Lake
 Otto Franz Ringle, B.A., Walker
 Curtis Alan Rohrer, Winona
 Robert Dale Romers, Dillon, Mont.
 William Ruben Sabes, St. Louis Park
 Edward C.W. Schutte, B.S., Austin
 Thomas Pifer Serene, B.S., Minne-
 apolis
 Rolf Ivar Skyberg, B.S., Canton, S.D.
 John David Smith, Jr., St. Paul
 Arlen Jene Sneltsjes, B.A., Marshall
 Robert Newton Staley, B.S., Huron,
 S.D.
 Aubrey Neal Stephens, Boise, Idaho
 Gerald Dean Stordal, B.S., Minot,
 N.D.

Donald LeRoy Sween, B.A., Minneapolis
Duane Keith Sween, B.A., Minneapolis
Ralph Frizner Swenby, B.S., Wausau, Wis.
James Masaru Toda, B.A., B.S., Honolulu, Hawaii
James Eugene Twomey, B.S., St. Cloud

John Floyd Van Valkenburg, Bloomer, Wis.
Robert William Weinrich, B.A. Rochester
Harold Lenik Weisberg, B.S., Minneapolis
Frederick Louis Whitsell, B.S.B., Emmett, Idaho
Thomas Francis Zack, St. Paul

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing*

Barbara Jean Anderson, St. Peter, WITH HIGH DISTINCTION
Joanne Marie Olmanson Pedersen, St. Peter, WITH HIGH DISTINCTION

Joanna Lukens Pierce, Hibbing, WITH HIGH DISTINCTION

Bachelor of Science in Nursing Administration

Jean Francis Kelly, Detroit, Mich., WITH DISTINCTION

Bachelor of Science

Raymond John Albrecht, B.A., St. Paul, Medicine
Freedolph Deryl Anderson, B.A., Underwood, N.D., Medicine
Karen Justus Anderson, Excelsior, Physical Therapy
Marylin Rose Anderson, Minneapolis, Physical Therapy
Frank Robert Arko, Jr., B.A., Virginia, Medicine
Thomas Raynor Arlander, B.A., St. Paul, Medicine
Irene Albertine Banks, Lynd, Occupational Therapy, WITH DISTINCTION
Donna Jeanne Berglund, Minneapolis, Occupational Therapy

William E. Bernstein, B.A., St. Paul, Medicine
Beverly Mary Bies, Robbinsdale, Occupational Therapy
Jo Anne Lorraine Bjornson, Minneapolis, Occupational Therapy, WITH DISTINCTION
Marilyn Val Blom, Willmar, Occupational Therapy, WITH DISTINCTION
Phillip Myron Bloom, Minneapolis, Medicine
Ausma S. Blumentals, B.A., Minneapolis, Medicine
Helen Florence Cornish Case, B.S. Educ., Minneapolis, Occupational Therapy, WITH DISTINCTION
Patricia Jean Chambers, Owatonna, Medical Technology**

* These degrees are conferred subject to the satisfactory completion of nursing practice prior to August 20, 1959

** These degrees are conferred subject to the satisfactory completion of practical work prior to December 17, 1959

- Mary Anne Chard, Willmar, Occupational Therapy
- Wilfred Alan Corson, B.A., Minneapolis, Medicine
- Robert Tatum Dale, B.A. cum laude, Minneapolis, Medicine
- Rosella Joan Denison, Minneapolis, Public Health Nursing, WITH HIGH DISTINCTION
- Richard Arthur DeRemee, B.A., Red Wing, Medicine
- Georgianne Rosemarie Dieson, Minneapolis, Medical Technology**
- Adelle Clare Dowidat, Minneapolis, Occupational Therapy, WITH DISTINCTION
- Kay Louise Draves, Minneapolis, Medical Technology**
- Philip Linner Eckman, B.A., Duluth, Medicine
- Marilyn Janis Ekberg, Herman, Medical Technology**
- Joy Patricia Eliiasen, Minneapolis, Medical Technology**
- Grace Elizabeth Engler, Cannon Falls, Medical Technology, WITH HIGH DISTINCTION**
- Carl Gustav Evers, B.A., Lake Benton, Medicine
- Sonja Myhre Flory, B.A., Minneapolis, Medicine
- William Daniel Flory, B.A., Minneapolis, Medicine
- Barbara Gertrude Flueger, Lake City, Medical Technology, WITH HIGH DISTINCTION**
- Jerome Conrad Fluth, B.A., Minneapolis, Medicine
- Dave Yoshiaki Fuchigami, Honolulu, T.H., Physical Therapy, WITH DISTINCTION
- Marcia Lenore Traun Galbraith, Minneapolis, Occupational Therapy, WITH DISTINCTION
- Karen Ruth Gates, Minneapolis, Medical Technology, WITH DISTINCTION**
- Jeanette Marie George, Minneapolis, Medical Technology**
- Katherine Gregerson, Minneapolis, Physical Therapy
- Mark David Hafermann, B.A., Lindstrom, Medicine
- Richard Neal Harner, B.A., Minneapolis, Medicine
- John Matthew Hendrickson, B.A., Fargo, N.D., Medicine
- James Peter Herberg, B.A., Mankato, Medicine
- John Arnold Hetzler, B.A., Mandan, N.D., Medicine
- John Alfred Hiatt, B.A., Minneapolis, Medicine
- Leslie Howard Hoium, B.A., St. Paul, Medicine
- Darlene Elizabeth Howe, Winnebago, Medical Technology**
- Jack Otto Hubbard, B.A., Brainerd, Medicine
- Carl Edward Johnson, B.A., St. Paul, Medicine
- Dolores May Johnson, Gheen, Public Health Nursing
- Evelyn Clara Johnson, Minneapolis, Public Health Nursing
- Lois Marie Johnson, Minneapolis, Occupational Therapy, WITH DISTINCTION
- Ruth Lillian Johnson, New Ulm, Public Health Nursing
- Barbara Jean Jones, Minneapolis, Occupational Therapy
- Morton Curtis Kane, B.A., St. Paul, Medicine
- Janice Fay Keller, Duluth, Public Health Nursing, WITH DISTINCTION
- Katherine Ann Kleinschmidt, Mankato, Occupational Therapy
- Harriet Elvira Knudson, Canton, Medical Technology**
- Janell Claire Koep, Lakefield, Physical Therapy, WITH DISTINCTION
- Lowell Leon Kvam, B.A., Lead, S.D., Medicine

** These degrees are conferred subject to the satisfactory completion of practical work prior to December 17, 1959

- Russell Harry Larsen, B.A., M.S.,
Storden, Medicine
- Richard Duane Larson, Pelican Rapids,
Physical Therapy, WITH DISTINCTION
- John Shorten Leighton, B.A., Big
Lake, Medicine
- Lucy Luba Leus, Minneapolis, Medical
Technology**
- Annette Ruth Levey, St. Paul, Occupational
Therapy
- Douglass Arnold Lowe, B.A., Minneapolis,
Medicine
- Sharon Jayne Malmstrom, Elk River,
*Medical Technology, WITH HIGH DISTINCTION***
- Sandra Jean Manders, St. Paul, Physical
Therapy
- Mary Ann Corrine Mankell, New London,
Medical Technology**
- Daniel Ludvic Maryland, B.A.,
Virginia, Medicine
- Paul David Mayer, B.A., Cumberland,
Wis., Medicine
- Leda Marie Merrill, St. Paul, Occupational
Therapy, WITH DISTINCTION
- Mark Alan Muesing, B.A., Slayton,
Medicine
- David James Nielsen, B.A., Mankato,
Medicine
- Mary Diane Ogren, Minneapolis, Occupational
Therapy
- Vern Clare Olmanson, B.A., St. Peter,
Medicine
- Patricia J. Oslund, Elk River, Physical
Therapy
- Ruth Ellen Peters, Glenwood, Physical
Therapy
- Judith Joyann Podd, St. Paul, Occupational
Therapy
- Alice May Prchal, Montgomery, Medical
Technology, WITH DISTINCTION**
- Nancy I. Mae Preuss, St. Paul, Medical
Technology**
- Barbara Meyer Puumala, B.A., Kenyon,
Medicine
- Suzanne Claire Renaud, St. Paul,
Medical Technology, WITH HIGH
DISTINCTION**
- John Daniel Riley, B.A., Stephen,
Medicine
- Carol Phyllis Robinson, Calgary, Alberta,
Canada, Physical Therapy
- Arlyce Jean Rylander, Little Falls,
Medical Technology**
- Britt Marion Sandberg, Superior, Wis.,
Occupational Therapy, WITH DISTINCTION
- Harry P. Santrizos, B.A., Minneapolis,
Medicine
- Dean Thomas Schamber, B.A., St. Paul,
Medicine
- Phyllis Jean Segal, Minneapolis, Medical
Technology, WITH DISTINCTION**
- George Skaff, B.A., Albert Lea, Medicine
- Phebe Jane Smith, Minneapolis, Occupational
Therapy, WITH DISTINCTION
- Beverly Jane Snider, Minneapolis, Occupational
Therapy
- Suzanne Starkey, A.A., Covington, Ind.,
Public Health Nursing, WITH DISTINCTION
- Jacqueline Joerg Stensland, St. Paul,
Public Health Nursing, WITH DISTINCTION
- Muriel Sylvia Summer, Herman, Public
Health Nursing, WITH HIGH DISTINCTION
- Richard L. Swanson, B.A., M.A.,
Minneapolis, Medicine
- Nadine Sweney, St. Paul, Occupational
Therapy
- Carol Lynn Swenson, St. Paul, Occupational
Therapy
- Byron Adolph Teska, B.A., Minneapolis,
Medicine
- Gail Wesley Thompson, B.A., Faulkton,
S.D., Medicine
- Mary JoAnn Thorsheim, Minneapolis,
Occupational Therapy, WITH HIGH
DISTINCTION

** These degrees are conferred subject to the satisfactory completion of practical work prior to December 17, 1959.

Livija Elfrida Vilinskis, Hudson, N.Y.,
Medical Technology**
Ronald Lee Villella, B.A., Minne-
apolis, Medicine
Mary Kay Wellenstein, Ponca, Neb.,
Physical Therapy
Henry Clair Wessman, St. Paul,
Physical Therapy, WITH DISTINC-
TION

Alvin Leo Wiens, B.A., M.A., Bing-
ham Lake, Medicine
Robert Adolphus Wymore, B.A., Pine
River, Medicine
Elmer Waldemar Ylitalo, B.A., Kee-
watin, Medicine

Master of Hospital Administration

Thomas Quade Bergfald, B.A., Min-
neapolis
Arvid Bjarne Brekke, B.A., Minne-
apolis
Janet Helen Gilquist Brodahl, B.A.,
Minneapolis
Thomas Joseph Campbell, B.S., Syra-
cuse, N.Y.
Glen Ross Clark, B.S., Oklahoma
City, Okla.
Richard Allan Cranford, B.B.A.,
Enid, Okla.
Guillermo Fajardo-Ortiz, M.D., Mexi-
co City, Mexico
Jack Richard Fecteau, B.S., Wauwa-
tosa, Wis.
Gordon Kenmit Flom, B.B.A., Minot,
N.D.
Frederick Harrell Gibbs, M.S., Knox-
ville, Tenn.
John Strider Glass, Albuquerque,
N.M.
Roger Eugene Gurholt, B.A., Min-
neapolis

William John Hartung, B.A., Rock
Rapids, Iowa
Lawrence A. Hill, B.A., M.A., Great
Falls, Mont.
Willis James Hindman, B.A., Sioux
City, Iowa
Keith Eugene Ingbritsen, B.A., Min-
neapolis
Victor Manuel Jaramillo, Medellin,
Colombia, South America
John Joseph Rockwell, B.A., Minne-
apolis
John Paul Rugh, B.A., St. Paul
Raymond E. Seaver, B.A., Minne-
apolis
Christopher Andrew Stang, B.S., Min-
neapolis
Paul Andre Teslow, B.A., Valley City,
N.D.
Michael Magee Walker, B.A., Pentic-
ton, British Columbia, Canada
Paul Howell Ward, Jr., B.B.A., Ok-
lahoma City, Okla.

Master of Nursing Administration

Audrey Irene Hansen, B.S., St. Paul
Esther Ann Nelson, B.S., Anoka
Ruth M. Organ, B.S., Minneapolis

Gloria Augusta Swanberg, B.S.,
Grantsburg, Wis.

Master of Public Health

Antonio Nable Acosta, M.D., Manila,
Philippines
Faramara Arjomand, B.S., Tehran,
Iran

Eliezer Balasha, B.S., M.C.E., Haifa,
Israel
Blaine Byers Barker, Jr., B.C.E.,
Minneapolis

** These degrees are conferred subject to the satisfactory completion of practical work prior to December 17, 1959.

Clare Louise Blanchard, B.S., Fitchburg, Mass.
 Margaret Catherine Boehm, B.S., Cleveland, Ohio
 Irene Louise Bryant, B.S., Maple Plain
 Martha Mary Carroll, B.S., Cleveland, Ohio
 Gus Cholas, D.V.M., Fort Collins, Colo.
 Abdus Subhan Choudhuri, East Bhadeswar, Sylhet, East Pakistan
 Jaydev Mohanlal Dave, M.S., Bhavnagar, India
 Joseph DeSantis, B.S., Rochester, N.Y.
 Juan Purugganan Estrada, A.A., M.D., Manila, Philippines
 Glen Arthur Fairchild, D.V.M., Perryville, Mo.
 Bentotage Gunawansa Dharmatilleke Fernando, Wellawatte, Colombo, Ceylon
 Frederick Albert Flohrschutz, Jr., B.S., Civil Engr., Glendale, Calif.
 Delphie Julia Fredlund, B.S., Minneapolis
 Florence Elizabeth Gareau, B.S., Toledo, Ohio
 Mary Alice Gill, B.S., Indianapolis, Ind.
 Ann Leonard Graul, B.S., Syracuse, N.Y.
 Harry Lee Haverland, Hamilton, Ohio
 Claire Eliza Healey, B.A., M.D., Elgin, Ill.
 Wayne Roy Heiskari, B.S., M.S., Orofino, Idaho
 Dorothy Evelyn Horan, B.S., Hartford, Conn.
 William Thornton Hubbert, B.S., D.V.M., Minneapolis
 Vernia Jane Huffman, B.S., Portland, Ore.
 Virginia Blanch Kremer, B.S., Crawfordsville, Ind.
 Anthony Alfred Larsen, B.A., M.D., Vancouver, British Columbia, Canada
 Shih Feng Li, B.S., Taiwan, China
 James Pittman Lovegren, B.S., St. Paul
 Amelia Mangay Maglacas, B.S., Quezon City, Philippines
 Benjamin Carter Martin, B.S., Butler, Pa.
 Geddes Morris McLaughlin, B.S., Dallas, Tex.
 Jyotirmoy Nath, Shibnibash, India
 John Porter Newman, B.S., D.V.M., M.S., East Lansing, Mich.
 Virginia Lucille Porter, B.S., Greencastle, Ind.
 Hazel Marjorie Rodibaugh, B.S., Keosauqua, Iowa
 Immanuel F. F. Roesler, B.S., Spencer, S.D.
 Joseph Paul Shock, B.C.E., Washington, D.C.
 Richard Leo Sha, B.C.E., Rochester
 Curtis Peters Shaffer, B.S., Denver, Colo.
 Imelda Hazel Spratt, B.S., East Cleveland, Ohio
 RamakrishnaIyer Subramaniam, Palghat Kerala, India
 Danny Warner Tipton, B.S., Denver, Colo.
 Ruth Anne Tull, B.S., Dayton, Ohio
 Kenneth Paul VanEss, B.S., Holland, Mich.
 Juan Antonio Zapatel, D.V.M., Lima, Peru

Doctor of Medicine

Raymond John Albrecht, B.A., St. Paul
 Dale LaVern Anderson, B.S., Austin
 Freedolph Deryl Anderson, B.A., Underwood, N.D.
 Bradley E. Appelbaum, B.S., St. Paul
 Frank Robert Arko, Jr., B.A., Virginia
 Thomas Raynor Arlander, B.A., St. Paul
 John Wallace Aughenbaugh, B.A., B.S., Minneapolis
 John Doyle Banovetz, B.S., Duluth
 Richard Phillip Bendel, B.S., Minneapolis

William E. Bernstein, B.A., St. Paul
Ronald Neil Berry, B.S., Windom
Phillip Myron Bloom, Minneapolis
Ausma S. Blumentals, B.A., Minne-
apolis

William Joseph Broussard, B.S.,
Lafayette, La.

John Blake Campbell, B.A., B.S.,
Minneapolis

Carl Eugene Christenson, B.S., St.
Paul

Wilfred Alan Corson, B.A., Minne-
apolis

Robert Tatum Dale, B.A. cum laude,
Minneapolis

Allan Dale Davidson, B.A., B.S., Holt
Michael William Davis, B.A., B.S.,
Minneapolis

Richard Arthur DeRemee, B.A., Red
Wing

Thomas Everett Dredge, Jr., B.A.,
Minneapolis

David Karl Drill, B.A., B.S., Hopkins
Philip Linner Eckman, B.A., Duluth

Franklin Ray Elevitch, B.A., Duluth
Carl Gustav Evers, B.A., Lake Benton

Sonja Myhre Flory, B.A., Minneapolis
William Daniel Flory, B.A., Minne-
apolis

Jerome Conrad Fluth, B.A., Minne-
apolis

Bradford Edward Friedrich, B.A., Red
Wing

Arthur James Gerdes, B.S., Mountain
Lake

Benjie L. Goldfarb, B.S., Duluth
Lawrence Miles Greenberg, B.A.,
B.S., St. Paul

Mark David Hafermann, B.A., Lind-
strom

Kenneth Halverson, B.S., Minneapolis
Richard Neal Harner, B.A., Minne-
apolis

John M. Hendrickson, B.A., Fargo,
N.D.

James Peter Herberg, B.A., Mankato
John Arnold Hetzler, B.A., Mandan,
N.D.

John Alfred Hiatt, B.A., Minneapolis
Charlotte Weeks Hill, B.A., Minne-
apolis

Leslie Howard Hoium, B.A., St. Paul
Jack Otto Hubbard, B.A., Brainerd
James Janecek, Jr., B.S., St. Paul
Carl Edward Johnson, B.A., St. Paul
Franklin Leroy Johnson, B.S., Duluth
Thomas Russell Johnson, B.S., B.A.,
Le Sueur

Morton Curtis Kane, B.A., St. Paul

Helen M. Kelly, B.S., DeGraff

Stephen Aaron Kieffer, B.A., B.S., St.
Paul

Lowell Leon Kvam, B.A., Lead, S.D.

Miles Irving Lane, B.S., Minneapolis

Russell Harry Larsen, B.A., M.S.,
Storden

John Shorten Leighton, B.A., Big Lake

Arthur T. Lindeland, B.A., B.S.,
Minneapolis

Thomas Litman, B.A., B.S., Minne-
apolis

Everett Winslow Lovrien, B.A.,
Minneapolis

Douglass Arnold Lowe, B.A., Minne-
apolis

Richard Oliver Lundborg, B.S.,
Madison

Charles Bartholow Lundquist, A.L.A.,
B.A., B.S., Minneapolis

Charles John Martell, B.A., Ely
Raymond Marvin Martinson, B.S.,
Eveleth

Daniel Ludvic Maryland, B.A.,
Virginia

Paul David Mayer, B.A., Cumberland,
Wis.

Charles Bost McCreary, B.A., Minne-
apolis

Robert Courtland McGee, B.A., B.S.,
Litchfield

James Andrew McKinnon, B.A., B.S.,
Virginia

Richard Andrew Meland, B.S.,
Minneapolis

Melvin Eugene Meyer, B.S., Le Sueur
Mark Alan Muesing, B.A., Slayton

Thomas Francis Mulrooney, B.S., St.
Paul

Rodger Keith Nelson, B.A., B.S.,
Glenwood

Ronald J. Nelson, B.A., B.S., Minne-
apolis

Thomas Owen Nichols, B.A., B.S., St. Paul
 David James Nielsen, B.A., Mankato
 Vern Clare Olmanson, B.A., St. Peter
 Duane Lynn Orn, B.S., Turtle Lake, Wis.
 Richard Robert Oslund, A.A., B.A., B.S., Cass Lake
 James Joseph Florde, B.A., B.S., Fairmont
 Robert Lowell Powers, B.A., B.S., Rochester
 William Edward Prickman, B.S., Rochester
 Barbara Meyer Puumala, B.A., Kenyon
 Ricard Reino Puumala, B.A. *magna cum laude*, B.S., Cloquet
 Gerald Ratinov, B.A., B.S., Minneapolis
 John Daniel Riley, B.A., Stephen
 Lawrence R. Ringhofer, B.S., Owatonna
 Franklin Delano Roller, B.S., Rochester
 Homer Hugh Russ, B.S., Blue Earth
 Milton Franklin Sadd, B.A., Spring Grove
 Robert Leslie Sadoff, B.A., B.S., Minneapolis
 Harry P. Santrizos, B.A., Minneapolis
 Dean Thomas Schamber, B.A., St. Paul
 William Randolph Schmalhorst, B.S., Stillwater
 Edward Louis Seljeskog, B.A., B.S., Minneapolis
 Lee Arnold Simso, B.A., Minneapolis
 George Skaff, B.A., Albert Lea
 Darline Donald Smith, B.A., Fertile, Iowa
 William Nelson Spellacy, A.L.A., B.A., B.S., St. Paul
 Herbert Stuart Strait, B.S., Jordan
 Thomas O. Swallen, B.A., Minneapolis
 Richard L. Swanson, B.A., M.A., Minneapolis
 Robert Lawrence Telander, B.S., Minneapolis
 Byron Adolph Teska, B.A., Minneapolis
 Gail Wesley Thompson, B.A., Faulkton, S.D.
 James R. Thompson, B.A., B.S., Bemidji
 Roy Toyama, B.A., Minneapolis
 Gerald Francis Tuohy, B.S., Chatfield
 Richard Lowell White, B.A., B.S., Rapid City, S.D.
 Alvin Leo Wicns, B.A., M.A., Bingham Lake
 John Allen Wilson, Jr., B.A., St. Paul
 Robert Adolphus Wymore, B.A., Pine River
 Elmer Waldemar Ylitalo, B.A., Keewatin
 John F. Zachman, B.S., Melrose

GRADUATE SCHOOL

Master of Arts

Ronald Thomas Abdo, Minneapolis
 B.A. '54, University of Minnesota. Field of Concentration: Industrial Relations.
 Anne Catherine Anderson, Warren
 B.S. '55, Moorhead State College. Field of Concentration: American Studies.
 William Stewart Anderson, Brook Park
 B.S. '51, Iowa State College. Field of Concentration: Economics.
 Janice Jean Baldwin, St. Paul
 B.A. *summa cum laude* '56, Hamline University. Field of Concentration: Music.
 Richard Edward Barthelemy, Minneapolis
 B.S. '55, University of Minnesota. Field of Concentration: Education.
 John Robert Bastian, Minneapolis
 B.A. *magna cum laude* '40, College of St. Thomas. Field of Concentration: English.

Santina Pesce Bayerle, Bari, Italy

B.A. *cum laude* '57, University of Minnesota.
Field of Concentration: Latin.

Audrey Charlotte Bodelson, Red
Wing

B.S. with honor '51, Winona State College.
Field of Concentration: Curriculum and In-
struction.

Lois Lou Brands, Rochester, N.Y.

B.S. '57, Beaver College. Field of Concen-
tration: Industrial Relations.

Gordon Louis Bultena, Cedar Falls,
Iowa

B.A. with high honors '56, Iowa State Teach-
ers College. Major: Sociology. Minor: Anthro-
pology. Thesis: Social Participation and Scho-
lastic Achievement—A Study of the Relation-
ship Between Participation in a) School-Cen-
tered Groups, b) Community-Centered Groups
and Scholastic Achievement Among a Sample
of Junior and Senior High School Students.

Joseph Nino Buzzelli, Hibbing

B.S. '54, St. Cloud State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Eleanor Leathart Campbell, St. Cloud

B.S. '50, Moorhead State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Wen-hsien Chiang, Formosa

B.A. in Law '56, National Taiwan University.
Field of Concentration: International Rela-
tions.

Minkyu Cho, Seoul, Korea

B.A. '56, Occidental College. Field of Con-
centration: Political Science.

Michael Joseph Coleman, Jr., St. Paul

B.A. '53, College of St. Thomas. Field of
Concentration: Industrial Relations.

Carter Meredith Comaford, Minne-
apolis

B.A. '58, Stanford University. Field of Con-
centration: Industrial Relations.

Margaret Ann Dallman, Milwaukee,
Wis.

B.A. '44, Marquette University. Field of Con-
centration: Education.

John Joseph Davitt, St. Paul

B.S. '50, Mankato State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Patricia Mae Denker, Augusta, Wis.

B.S. *cum laude* '53, Wisconsin State College
(Eau Claire). Field of Concentration: Cur-
riculum and Instruction.

Lawrence Allen Eickhoff, St. Paul

B.S. '54, Bemidji State Teachers College. Field
of Concentration: Curriculum and Instruction.

Irene Dorothy Faffler, St. Paul

B.S. '52, University of Minnesota. Field of
Concentration: Speech.

Stephen Sanford Annis Faunce,
Minneapolis

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

Harold Joseph Gardner, Delano

B.S. '49, St. Cloud State Teachers College.
Field of Concentration: Curriculum and In-
struction.

William Earl Gardner, Hopkins

B.S. with distinction '50, University of Minne-
sota. Field of Concentration: Curriculum and
Instruction.

Ilyana Tabella Garmisa, Chicago, Ill.

B.A. *magna cum laude* '49, University of Min-
nesota. Major: Art. Minor: Philosophy. Thesis:
The Stylistic Development of the Drawings
of Vincent Van Gogh: A Critical Evaluation.

Elizabeth Johanna Anderson Ghei,
Red Wing

B.A. *magna cum laude* '57, University of Min-
nesota. Field of Concentration: Child Devel-
opment.

Earl William Gierke, Minneapolis

B.S. with high distinction '51, University of
Minnesota. Field of Concentration: Industrial
Education.

Norman Sol Goldner, Minneapolis

B.A. '55, University of Minnesota. Major: So-
ciology. Minor: Psychology. Thesis: The Mexi-
can in the Northern Urban Area: A Compari-
son of Two Generations.

David Trumbull Hakes, Wilbraham,
Mass.

B.A. '56, Wesleyan University. Field of Con-
centration: Psychology.

Douglas Arthur Hanson, Minneapolis
B.S. '50, University of Minnesota. Field of
Concentration: Industrial Education.

William Frederick Hesser, Phoenix-
ville, Pa.

B.A. '57, University of Minnesota. Field of
Concentration: International Relations.

Margalith Holzinger, Tel-Aviv, Israel
Graduate '39, Hebrew Teachers' College. Field
of Concentration: Curriculum and Instruction.

Almon Gilmore Hoye, Jr., Minne-
apolis

B.S. '49, University of Minnesota. Field of
Concentration: Educational Psychology.

Chin-Liang Huang, Tainan, Taiwan,
Formosa

B.A. in Law '55, National Taiwan University.
Field of Concentration: International Rela-
tions.

Nurhan Mehmet Ince, Ankara, Turkey

B.A. '55, Ankara University. Field of Concen-
tration: International Relations.

James Allen Johnson, River Falls, Wis.

B.S. '58, Wisconsin State College at River
Falls. Field of Concentration: Educational
Administration.

Richard Wilbur Johnson, Big Lake

B.A. *cum laude* '56, Princeton University.
Field of Concentration: Psychology.

Hirschel Kasper, Providence, R.I.

B.A. '56, Boston University. Major: Econom-
ics. Minor: Political Science. Thesis: The Role
of the National Labor Relations Board as
Seen by Its Members, 1937-1957.

Janice Ann Klodt, Minneapolis

B.S. '52, University of Minnesota. Field of
Concentration: Educational Psychology.

Richard Stanley Koe, Portland, Ore.

B.S. '55, University of Oregon. Field of Con-
centration: Journalism.

Victor Arthur Koivumaki, Ely

B.S. '47, University of Minnesota. Field of
Concentration: Speech.

John Robert Larson, Milaca

B.S. with distinction '51, University of Minne-
sota. Field of Concentration: Agricultural Edu-
cation.

Philip Alphonse Letourneau, Duluth

B.S. '53, University of Minnesota. Field of
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Raymond Edward Letsch, Buhl

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

Robert Herman Levine, Bronx, N.Y.

B.Arch. '56, Cornell University. Major: Archi-
tecture. Minor: Civil Engineering. Thesis:
Hospital Planning.

Minda Luz Santos Lorredo, Davao
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B.A. '50, B.S.F.S. '51, University of Manila.
Field of Concentration: Area Studies: East
and South Asia.

Robert Charles Lucas, St. Paul

B.S. with high distinction '57, University of
Minnesota. Field of Concentration: Geog-
raphy.

Stanley Stephen Madeja, New
Brighton

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

Charles William Martin, Rochester

B.S. with distinction '57, University of Min-
nesota. Field of Concentration: Art Education.

John C. Massmann, New Munich

B.A. '54, St. John's University. Major: History.
Minor: Political Science. Thesis: Friedrich
Orthwein: A Case Study in Historical Inves-
tigation.

Ellen Selma Mattson, Prior Lake

B.S. '55, University of Minnesota. Field of
Concentration: Educational Psychology.

Norman Leo McDonnell, Great Falls,
Mont.

B.S. '49, St. John's University. Field of Con-
centration: Physical Education.

Aimee Carpenter McIntyre, Hender-
son

B.S. '50, Mankato State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Eileen Manning Michels, Minneapolis
B.A. *magna cum laude* '47, M.A. '53, University of Minnesota. Major: Library Science. Minor: Art. Thesis: An Analysis from the Art Historian's Viewpoint of the Library of Congress Subject Headings used in the Catalog of the Art Library of the University of Minnesota for a Selected Group of One Hundred Books.

Roger Kenneth Mosvick, Minot, N.D.
B.A. '52, Macalester College. Major: Speech. Minor: Educational Administration. Thesis: The Status of Speech Education in the Public High Schools of Minnesota.

Kenneth V. Mull, Winfield, Ill.
B.A. '52, Cascade College. Field of Concentration: Educational Psychology.

Allan Nylin Nash, Tracy
B.B.A. '57, University of Minnesota. Field of Concentration: Industrial Relations.

Ina Lien Nelson, Minneapolis
B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Newell Jay Nelson, Jr., LaCrosse, Wis.
B.S. '55, Wisconsin State College. Field of Concentration: Physical Education.

Balwant Shantvan Nevaskar, Bombay, India
B.A. '47, University of Bombay. Major: Sociology. Minor: Philosophy. Thesis: The Titans: A Comparative Study of the Elites of India and the United States.

Carolyn Smith Peck, Baltimore, Md.
B.A. '51, Morgan State College. Field of Concentration: Curriculum and Instruction.

Ivan Max Policoff, St. Paul
B.A. '50, B.S. '57, University of Minnesota. Field of Concentration: Mathematics.

Theodore Charles Pollard, Duluth
B.S. '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Lila PremDas, Fevozepore, Punjab, India
B.A. '50, Punjab University. Field of Concentration: Child Development.

Kenneth John Prihoda, Deephaven
B.S. '52, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction.

John Thomas Reque, Winfield, Kan.
B.A. '53, Wisconsin State College (River Falls). Field of Concentration: Journalism.

Donald James Rezab, St. Paul
B.A. *summa cum laude* '50, Macalester College. Field of Concentration: Architecture.

Paul Joseph Richer, Mason City, Iowa
B.A. '55, State University of Iowa. Field of Concentration: Speech.

Rita Joan Roffers, Minneapolis
B.A. *magna cum laude* '55, University of Minnesota. Major: Sociology. Minor: Biostatistics. Thesis: Religious and Other Sources of Parental Attitudes Towards Independence Training.

Roger Henry Salmela, Cokato
B.A. '55, University of Minnesota. Field of Concentration: History.

Robert Arthur Schinske, Minneapolis
B.S. '48, Hamline University. Major: Zoology. Minor: Botany. Thesis: Neurosecretion in the Central Nervous System of a Pulmonate Snail, *Arion hortensis* F.

Vera Myers Schletzer, Minneapolis
B.A. with highest honors '41, Ohio University. Field of Concentration: Psychology.

Roger George Schmaus, Ponsford
B.S. '58, Bemidji State College. Field of Concentration: Educational Administration.

Dorothea Margaret Schmidt, Rye, N.Y.
B.A. *magna cum laude* '56, Radcliffe College. Field of Concentration: Classics.

John Frederick Schmidt, Emmons
B.A. '49, Macalester College. Field of Concentration: Educational Administration.

Matthew Stark, Minneapolis
B.A. '51, B.S. in Ed. '51, Ohio University. Field of Concentration: Educational Psychology.

Werner William Stegemann, Wabasha
B.S. '37, University of Minnesota. Field of Concentration: Agricultural Education.

Mary Frances Stevens, Minneapolis
B.S. '51, St. Cloud State Teachers College. Field of Concentration: Educational Psychology.

John Colin Streed, Minneapolis

B.A. '54, Winona State Teachers College;
B.S. '58, University of Minnesota. Field of
Concentration: English.

Gertrude Bernice Tingelstad, St. Paul

B.A. *magna cum laude* '41, Luther College;
B.A.L.S. '42, University of Michigan. Field of
Concentration: Library Science.

Dorothy Ann Veranth, Eveleth

B.S. with high distinction '52, St. Cloud State
Teachers College. Field of Concentration: Cur-
riculum and Instruction.

Marisa Volbach, Minneapolis

Graduate '53, Università Commerciale Luigi
Bacconi. Field of Concentration: Library
Science.

Lorraine Halbower Volsky, Minne-
apolis

B.S. '51, Kansas State College. Field of Con-
centration: Psychology.

James Clifford Wakfield, Winnipeg,
Manitoba, Canada

B.S. '52, University of Minnesota. Field of
Concentration: Industrial Education.

Wei-Ying Wan, China

B.A. '51, Taiwan Normal University. Field of
Concentration: Library Science.

David Warner Webster, Minneapolis

B.A. with high honors '56, Bethel College (St.
Paul). Field of Concentration: Psychology.

Jean Marjorie Webster, Minneapolis

B.S. '55, University of Minnesota. Field of
Concentration: Home Economics Education.

Douglas Albert Whitaker, Benson

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

Ellsworth Keith Wright, St. Louis
Park

B.S. '53, St. Cloud State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Eva Onalova Young, Minneapolis

B.S. '42, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Master of Arts in Public Administration

Curtis Edmund Olsen, Bagley

B.A. '56, Bemidji State Teachers College. Ma-
jor: Public Administration. Thesis: The Ad-
ministration of Urban Transportation Facilities
in the City of Phoenix, Arizona.

Master of Business Administration

Richard Tsung-Kai Li, Taipei, Tai-
wan, China

B.A. '56, College of St. Thomas. Field of Con-
centration: Business Administration.

James Walter Noehl, Pine Island

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

Master of Fine Arts

John Irwin Dahl, Minneapolis

B.S. '54, University of Minnesota. Major: Art.
Minor: Anthropology. Thesis: The Influence
of the Landscape Concept on Several Re-
cent Nonrepresentational and Representational
Painters.

John Arthur Hawkins, Minneapolis

B.A. '55, University of Minnesota. Major: Art.
Minor: Philosophy. Thesis: Subject Matter and
the Surface of the Canvas.

Master of Science

Roger Leet Aagard, Dummell

B.A. '57, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Measurements of Infrared Radiation Divergence in the Atmosphere with the Double Radiometer.

Earl Perry Adams, River Falls, Wis.

B.S. '57, Wisconsin State College. Major: Soils. Minor: Agricultural Engineering. Thesis: Effects of Deliberate Packing on Some Soil Physical Properties and Crop Yields.

Loren Edwin Ahlrichs, Bode, Iowa

B.S. '54, Iowa State College. Major: Soils. Minor: Agronomy. Thesis: Studies on the Effect of Application Time and Placement of Urea Nitrogen on the Yield and Composition of Field Corn and on Nitrogen Movement in Soil.

Robert Lee Armstrong, Minneapolis

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

James Leroy Baird, Jr., Bridgeport, Conn.

B.S. '56, Tufts College. Major: Entomology. Minor: Botany. Thesis: A Comparison Between Oxygen Consumption and Rate of Development at Various Constant Temperatures in *Oncopeltus fasciatus* (Dallas), and *Tribolium confusum* (Duval).

Michael Ross Behr, Paynesville

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

William Ernest Benjamin, Hastings

B.S. with distinction '57, University of Minnesota. Major: Animal Husbandry. Minor: Agricultural Biochemistry. Thesis: The Relative Value of Low-Moisture Corn and Ensiled High-Moisture Corn for Feeder Lambs.

Jay Lynn Benson, Minneapolis

B.S. with distinction '56, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Atomic Masses of the Stable Isotopes of Lead and Mercury and the Mass Difference $D_2\text{-He}^4$.

John Gilbert Berquam, St. Paul

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

George Marston Blake, Arcadia, Calif.

B.S. '57, University of Idaho. Major: Forestry. Minor: Plant Genetics. Thesis: A Study to Determine the Optimum Plot Size for Progeny Testing Red Pine.

Ransom Abbott Blakeley, East Aurora, N.Y.

B.S. with distinction '55, Cornell University. Field of Concentration: Agricultural Economics.

Donald Walter Calkins, East Chain

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

Bernardo San Jose Castillo, Ilagan, Isabela, Philippines

B.S.A. '40, University of the Philippines. Major: Plant Pathology. Minor: Entomology. Thesis: The Mechanical Transmission of Strawberry Viruses to Other Herbaceous Plants.

Marie Margaret Christenson, St. Paul

B.S. '41, University of Minnesota. Field of Concentration: Home Economics.

Richard Alan Coddington, Ipswich, S.D.

B.S. '57, South Dakota State College of Agriculture and Mechanic Arts. Field of Concentration: Public Health.

Michael Norbert Deutsch, Forest Lake

B.S. '41, Iowa State College. Field of Concentration: Dairy Husbandry.

J. Eugene Ellis, Buffalo

B.S. '41, Iowa State College. Major: Soils. Minor: Agricultural Economics. Thesis: A Study of the Factors That Determine the Effective Application of Soil Management Practices in Wright County, Minnesota.

Duane Edward Erickson, Fergus Falls

B.S. '53, North Dakota Agricultural College. Field of Concentration: Agricultural Economics.

John Harlan Ford, Park River, N.D.

B.S. '50, North Dakota Agricultural College. Major: Agronomy. Minor: Soils. Thesis: Effectiveness of Pre-Harvest Spraying in Reducing the Moisture Content of Certain Crops and Weeds.

William Jack Gelineau, Duluth

B.A. '52, University of Minnesota. Major: Geology. Minor: Geophysics. Thesis: Pleistocene Geology of the Inver Grove and St. Paul SW Quadrangles, Minnesota.

Forrest Irving Glick, Glasgow, Mont.

B.A. *cum laude* '56, St. Olaf College. Field of Concentration: Physics.

Harald Frithjof Hendricksen, Minneapolis

B.A. '57, University of Minnesota. Major: Geology. Minor: Chemistry. Thesis: Formation of Uranium Minerals in Petroleum and Asphalt.

Robert Arthur Hovden, Minneapolis

B.A. *cum laude* '56, Augsburg College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Reactions of 5-Benzyloxyindole with Nitroolefins—A New Synthesis of Serotonin.

Pratut Jayapani, Bangkok, Thailand

B.Arch. '48, Chulalongkorn University. Major: Architecture. Minor: Home Economics. Thesis: The Royal Thai Embassy to the United States of America, Washington D.C., U.S.A.

Sven Hakan Johansson, Stockholm, Sweden

Graduate '53, Royal Agricultural College (Sweden). Field of Concentration: Agricultural Economics.

Yong Won John, Taejon, Korea

B.S. in Eng. '54, Seoul National University. Field of Concentration: Geology.

Donald Holm Kobe, Austin, Tex.

B.S.Ch.E. '56, University of Texas. Field of Concentration: Physics.

Harold Winfred Krueger, St. James

B.S. '57, University of Minnesota. Major: Geology. Minor: Physical Chemistry. Thesis: The Theory and Techniques of A^{40}/K^{40} Age Determination.

Edgardo Ocampo Mabesa, College Laguna, Philippines

B.S.F. '51, University of the Philippines. Major: Forestry. Minor: Botany. Thesis: A Study of the Impervious Wood of Aspen (*Populus tremuloides* Michx.).

Clifford Matthew Moran, Duluth

B.S. '52, University of Minnesota. Field of Concentration: Inorganic Chemistry.

Robert Mullin, Bertha

B.S. with high distinction '57, University of Minnesota. Major: Horticulture. Minor: Plant Genetics. Thesis: Combining Ability of Five Clones of Chrysanthemum.

Clarence Walfred Nelson, Minneapolis

B.B.A. with distinction '48, M.A. '49, University of Minnesota. Field of Concentration: Geology.

Ronald Goodman Nelson, Brainerd

B.S. with distinction '57, University of Minnesota. Major: Geology. Minor: Physical Chemistry. Thesis: Investigation of Copper Ion Sorption by Soil Mineral Particles.

Elwood Olaf Nestvold, Richfield

B.A. *summa cum laude* '52, Augsburg College. Major: Physics. Minor: Mathematics. Thesis: The Theory of Radio Propagation.

Robert James Oakes, Minneapolis

B.S. with high distinction '57, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Helium, Neon, and Argon in the Keen Mountain Meteorite.

Thomas James O'Brien, Barronett, Wis.

B.S. '52, University of Hawaii. Field of Concentration: Agricultural Economics.

Brian Mandel Rushton, Manchester, England

Graduate '57, Royal Technical College (England). Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: An Investigation Directed Towards the Synthesis of 1,4-Dihydroxyhexamethylcyclohexa-2, 5-Diene and a Subsequent Study of the Chemistry of This System.

John Albert Scharf, Minneapolis
B.S. '53, University of Minnesota. Major: Fishery and Wildlife Management. Minor: Botany. Thesis: A Study of the Wildlife Use of State-Owned Wetlands with Special Reference to Level Ditched Marshes.

Barkur Shambhushanker Shetty, India
B.Sc. '51, Karnatak University; D.I.H. '52, University of Madras. Field of Concentration: Horticulture.

Edward Peter Smereka, Sault Sainte Marie, Ontario, Canada
B.S.A. '54, University of Manitoba. Major: Entomology. Minor: Botany. Thesis: Some Humidity and Light Reactions of the Granary Weevil, *Sitophilus granarius* (L.).

Kathleen Hubbard Stuart, Roanoke, Va.
B.S. with honors '57, Radford College. Field of Concentration: Home Economics.

Mamoru Tabata, Wakayama, Japan
B.Agric. '53, Kyoto University. Major: Plant Genetics. Minor: Botany. Thesis: Studies of a Gametophyte Factor in Barley.

Richard Harvey Waring, Glen Ellyn, Ill.
B.S. with distinction '57, University of Minnesota. Major: Forestry. Minor: Botany. Thesis: Some Characteristics of the Upland Forest Types in the Rock Outcrop Area of Northeastern Minnesota.

Master of Science in Aeronautical Engineering

Richard Charles Cutshall, Rochester
B.S. with distinction '57, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Analytical Investigation of Parachute Inflation Time.

Floyd Roland Sedlund, Almelund
B.Aero.E. '51, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Behavior of Spherical Bodies of Different Materials Under a Punching Gas Jet of Plasma.

Janardanarao Yalamanchili, India
Graduate '56, Madras Institute of Technology. Field of Concentration: Aeronautical Engineering.

Master of Science in Agricultural Engineering

Leland Lapham Dibley, Caledonia
B.S. with distinction '57, University of Minnesota. Field of Concentration: Agricultural Engineering.

Leslie Kenneth Lindor, Morris
B.Ag.E. '43, University of Minnesota. Field of Concentration: Agricultural Engineering.

Master of Science in Chemical Engineering

Robert Alphonse Bouchet, Paris, France
Graduate '54, Ecole Nationale Supérieure des Industries Chimiques. Major: Chemical Engineering. Minor: Mathematics. Thesis: Influence of Pressure on Gaseous Reactions in Continuous Stirred Tank Reactors.

John Walter Johnson, White Bear Lake
B.S. with distinction '57, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Effect of Interfacial Tension on Coalescence Rates for a Two Phase Liquid-Liquid System in a Stirred Tank Reactor.

Frank John Halfen, St. Paul
B.S. with distinction '57, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Subcooling of Evaporating Spheres at Low Pressures.

Larry Mank, Oakland, Calif.
B.S. '55, Washington University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Chlorination of Toluene in a Flow System.

Cole Marion Sherwood, Kellogg,
Idaho

B.S. in Ch.E. '57, University of Idaho. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Optimum Isothermal Temperatures in Tubular Reactors.

Master of Science in Civil Engineering

Antonio Andreu, Madrid, Spain

Graduate '58, Madrid University. Field of Concentration: Civil Engineering.

Alan Frederick Babb, Vancouver,
British Columbia, Canada

B.A.Sc.inC.E. '58, University of British Columbia. Field of Concentration: Civil Engineering.

Cheng-shi Chang, Pin-Tung, Formosa,
China

B.S. '52, National Taiwan University. Field of Concentration: Civil Engineering.

Ycong-Ping Chu, Taiwan, China

B.Sc. '55, Taiwan College of Engineering. Field of Concentration: Civil Engineering.

Hsing Chuang, Formosa

B.S. '54, National Taiwan University. Field of Concentration: Civil Engineering.

David Martin Eckblad, Red Wing

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

Arif Husain, Patna, Bihar, India

B.Sc. '49, B.Sc. in C.E. '53, Aligarh Muslim University. Field of Concentration: Civil Engineering.

Raymond Harold Schuett, Minneapolis

B.S. with distinction '58, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Investigation of Circular Cellular Cofferdam T-Stresses.

Shakil Ahmed Siddiqui, Karachi,
Pakistan

B.E. '55, Nadirshah Edulsi Dinshaw Government Engineering College. Field of Concentration: Civil Engineering.

Eugene Louis Skok, Jr., St. Paul

B.S. with distinction '57, University of Minnesota. Major: Civil Engineering (Soils and Highways). Minor: Civil Engineering (Structures). Thesis: A Comparison of Methods of Flexible Pavement Design.

James Cooper Tillitt, Minneapolis

B.S. in Arch. Eng. '48, University of Illinois. Major: Civil Engineering (Structural Engineering). Minor: Civil Engineering (Highway Engineering and Soils Mechanics). Thesis: The Analysis and Structural Behavior of a Circular Slag with Dome.

Master of Science in Dentistry

Robert Dean Bergan, Los Angeles,
Calif.

D.D.S. '54, University of Southern California. Major: Dentistry. Minor: Surgical Pathology. Thesis: Fluid Balance After Operation for Multiple Dental Extractions and Alveoloplasty.

Roger Jerome Burke, St. Paul

B.S. '54, D.D.S. '56, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: The Use of "Anorganic" Bone to Increase Alveolar Ridge Height in Partially Edentulous Jaws of Dogs.

Theodore Thomas Edblom, Minneapolis

B.A. '53, B.S. '53, D.D.S. '55, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Growth and Development of Mandibular Tooth Germs as Isologous Subcutaneous Implants in the Mouse.

Robert Richard Etem, Minneapolis

B.S. '55, D.D.S. '55, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Morphological and Histological Variations Observed in Skeletal Organs Implanted in Subcutaneous and Intermuscular Sites.

William Paul Frantzich, Minneapolis
B.S. '56, D.D.S. '56, University of Minnesota.
Major: Dentistry. Minor: Pathology. Thesis:
The Effects of Unilateral Detachment of the
Capsule of the Mandibular Joint in the Grow-
ing White Rat.

John Olaf Hagen, Los Angeles, Calif.
B.A. '51, University of Southern California;
D.D.S. '56, Creighton University. Major: Den-
tistry. Minor: Surgical Pathology. Thesis: So-
Called Granular Cell Myoblastoma of the Oral
Cavity.

Lloyd Eugene Pearson, Minneapolis
B.S. with high distinction '57, D.D.S. '57,
University of Minnesota. Major: Dentistry.
Minor: Anatomy. Thesis: A Study of Maxil-
lary Arch Width Following Resection of the
Right Hypoglossal Nerve in Albino Rats.

Alfred Howard Sather, McGregor
B.S. '55, D.D.S. '57, University of Minnesota.
Major: Dentistry. Minor: Anatomy. Thesis:
An Analysis of the Posterior-Anterior Roent-
genogram of the Head by Frozen Serial Sec-
tions.

Master of Science in Electrical Engineering

**Jason Ferdinand Lindfors, Minne-
apolis**
B.E.E. with high distinction '56, University of
Minnesota. Major: Electrical Engineering. Mi-
nor: Mathematics. Thesis: Static Characteris-
tics of the S-Generator Metadyne.

Robert Thomas Peller, Minneapolis
B.S. with distinction '56, University of Min-
nesota. Major: Electrical Engineering. Minor:
Mathematics. Thesis: Properties of Titanium
as an Anode in an Electron Tube.

Master of Science in Industrial Engineering

**Per Oystein Grimstad, Trondheim,
Norway**
B.S.Met.Eng. '57, Norwegian Institute of
Technology. Field of Concentration: Indus-
trial Engineering.

Russell Stanford Nyquist, Cokato
B.S. with distinction '57, University of Minne-
sota. Field of Concentration: Industrial En-
gineering.

Master of Science in Mechanical Engineering

Gerald Kenneth Gable, Minneapolis
B.M.E. with distinction '54, University of
Minnesota. Field of Concentration: Mechani-
cal Engineering.

Stanley Carl Rustad, St. Louis Park
B.M.E. with high distinction '50, University
of Minnesota. Field of Concentration: Me-
chanical Engineering.

Melvin Fred Kanninen, Duluth
B.M.E. '57, University of Minnesota. Field of
Concentration: Mechanical Engineering.

Master of Science in Medicine

**Lige Burroughs Rushing, Jr., Wood-
ville, Tex.**

M.D. '51, Baylor University. Major: Medicine.
Minor: Pathology. Thesis: Renal Lesions in
Rheumatoid Arthritis.

Master of Science in Mineral Engineering

Charles Wilson Berry, St. Paul

B.S. in Min.E. '52, Lehigh University. Major: Mineral Engineering. Minor: Business Administration. Thesis: Effect of Varying Bit Shape on Force-Penetration Characteristics in Rock for Impulsive Loading.

Roy Wayne Hillmer, Austin

B.Min.E. '56, University of Minnesota. Field of Concentration: Mineral Engineering.

Master of Science in Neurosurgery

John Benedict Doyle, Jr., Los Angeles, Calif.

B.A. '48, University of California; M.D. '52, George Washington University. Major: Neurosurgery. Minor: Neuropathology. Thesis: A Clinical-Pathological Study of von Recklinghausen's Disease.

Colin Campbell McDonald, Winnipeg, Manitoba, Canada

M.D. '55, University of Manitoba. Major: Neurosurgery. Minor: Neuropathology. Thesis: Subependymal Glioma.

Claude Oliver Grizzle, Cheyenne, Wyo.

B.A. '49, M.D. '53, Stanford University. Major: Neurosurgery. Minor: Pathology. Thesis: Experimental Bridging of Peripheral Nerve Gaps with Inverted Vein Sleeves.

Michael Paul Sperl, Jr., St. Paul

B.S. '46, M.D. '50, University of Minnesota. Major: Neurosurgery. Minor: Pathology. Thesis: Experimental Production of Local Cerebral Edema.

Master of Science in Otolaryngology

Maurice Charles Gyde, St. Boniface, Manitoba, Canada

B.A. '40, M.D. '45, University of Manitoba. Major: Otolaryngology. Minor: Surgical Pathology. Thesis: The Antrochoanal Polyp.

Master of Science in Pathology

Edgar George Harrison, Jr., St. Louis, Mo.

B.S. '49, University of Illinois; M.D. '52, St. Louis University. Major: Pathology. Minor: Clinical Pathology. Thesis: Bilateral Indirect and Direct Arterial Pressures in Non-Hypertensive and Hypertensive Individuals.

Thomas Myles Parker, Rochester

B.A. '50, B.S. '54, M.D. '54, University of Minnesota. Major: Pathology. Minor: Hematology. Thesis: Mesonephric Clear Cell Carcinoma of the Ovary: A Clinical and Pathological Study.

Chris Anthony Pascuzzi, Helper, Utah

M.D. '50, Creighton University. Major: Pathology. Minor: Clinical Pathology. Thesis: Primary Tumors of the Ribs and Sternum.

Master of Science in Surgery

Norman Henry Baker, Rochester

B.S. '50, Allegheny College; M.D. '54, Ohio State University. Major: Surgery. Minor: Pathology. Thesis: An Experimental Study in the Use of Autografts and Direct Shunts for Anastomosis of Coronary Size Arteries.

John Austin Culligan, St. Paul

B.S. '46, University of Notre Dame; M.D. '50, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: Attempts to Produce Cardiospasm in the Cat.

Ramafis B. Fahim, Cairo, Egypt
B.Sc. '47, M.D. '51, University of Cairo. Major: Surgery. Minor: Surgical Pathology. Thesis: Carcinoma of the Gallbladder: A Study of Modes of Spread: Pathological Features and Surgical Treatment of 151 Cases.

John Alan Ramsdell, White Plains, N.Y.

B.A. '49, Yale University; M.D. '54, Columbia Medical College. Major: Surgery. Minor: Surgical Pathology. Thesis: Familial Polyposis: A Clinical and Pathologic Study of Eight Colons, Surgically Resected, with 14,029 Adenomas.

Master of Social Work

Orval John Bloom, Fergus Falls
B.A. '52, Gustavus Adolphus College. Field of Concentration: Social Work.

Alice Sims Onque, St. Paul
B.S. '27, University of Kansas. Field of Concentration: Social Work.

Vernon M. Bloom, Minneapolis
B.A. '56, University of Minnesota. Field of Concentration: Social Work.

Perry Roth, St. Paul
B.S. '50, Rutgers University. Field of Concentration: Social Work.

Myra Joy Golden, Minneapolis
B.A. magna cum laude '57, University of Minnesota. Field of Concentration: Social Work.

Ruth Senstad St. John, Thief River Falls
B.S. '55, Concordia College. Field of Concentration: Social Work.

David Jan Johnson, Eau Claire, Wis.
B.S. '56, University of Wisconsin. Field of Concentration: Social Work.

Mary Ellyn Schulke, Thief River Falls
B.A. '57, Gustavus Adolphus College. Field of Concentration: Social Work.

Joyce Patricia Julian, Hudson, Wis.
B.S. '48, Wisconsin State College (River Falls). Field of Concentration: Social Work.

Marsh Ward, Minneapolis
B.A. '56, Macalester College. Field of Concentration: Social Work.

Maynard Millard Miller, Minneapolis
B.A. '56, University of Minnesota. Field of Concentration: Social Work.

Judith Gayle Weisburd, St. Paul
B.A. cum laude '57, University of Minnesota. Field of Concentration: Social Work.

Karen Jane Murray, Minneapolis
B.A. '49, St. Olaf College. Field of Concentration: Social Work.

Ruth Marie Winter, Janesville
B.A. magna cum laude '57, University of Minnesota. Field of Concentration: Social Work.

Patricia Lou Neal, Minneapolis
B.A. '56, Carleton College. Field of Concentration: Social Work.

Mary Beisswenger Wolf, Minneapolis
B.A. cum laude '56, University of Minnesota. Field of Concentration: Social Work.

Certificate of Specialist in Education

(School Psychological Services)

Gary Alvin Blade, Minneapolis
B.S. '55, M.A. '57, University of Minnesota. Field of Concentration: School Psychological Services.

Walter Conrad Larsen, New England, N.D.

B.A. '50, Concordia College; M.A. '57, University of Minnesota. Field of Concentration: School Psychological Services.

Keith Dawson, St. Louis Park
B.S. '49, M.A. '55, University of Minnesota. Field of Concentration: School Psychological Services.

Doctor of Philosophy

Ensis Emil Aalto, Brooklyn, N.Y.

B.S. '43, M.A. '45, New York University. Major: Educational Psychology. Minor: Psychology. Thesis: Psychological Factors Associated with Appropriateness and Inappropriateness of Vocational Choices. Major Adviser: Prof. C. G. Wrenn.

Curtis Arthur Amlund, Minneapolis

B.A. *magna cum laude* '52, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Theory and Practice of Federalism in the Governmental Organization of the Confederate States of America. Major Advisers: Profs. A. N. Christensen and R. C. Lochr.

Kenneth Kaae Andersen, Fords, N.J.

B.S. with highest honors '55, Rutgers University. Major: Organic Chemistry. Minor: Chemistry. Thesis: The Stereochemistry of the Reactions of Some Alkyl Sulfates with Phenyllithium and *n*-Butyllithium. Major Adviser: Prof. S. W. Fenton.

Richard A. Andrews, Maine

B.S. with highest distinction '49, University of Maine; M.S. '51, Pennsylvania State College. Major: Agricultural Economics. Minor: Economics. Thesis: A Study of the Sweet Corn Industry in the Midwest Farm Economy. Major Adviser: Prof. S. O. Berg.

Frank Baker, Mankato

B.S. '50, M.A. '54, University of Minnesota. Major: Educational Psychology. Minor: Statistics. Thesis: The Relation of Item Analysis Methods to the Item Characteristic Curve. Major Adviser: Prof. C. J. Hoyt.

Paul Anson Bloland, Mt. Horeb, Wis.

B.S. '49, M.S. '50, University of Wisconsin. Major: Educational Psychology. Minor: Psychology. Thesis: The Development and Validation of an Instrument for Measuring Attitudes Toward Selected Concepts in Higher Education. Major Advisers: Profs. C. G. Wrenn and Ben Willerman.

Byron William Brown, Jr., Red Wing

B.A. *magna cum laude* '52, M.A. '55, University of Minnesota. Major: Biostatistics. Minor: Mathematics. Thesis: Some Properties of the Spearman Estimator in Bioassay. Major Advisers: Profs. I. R. Savage and E. A. Johnson.

Jean Effal Carlin, Minneapolis

B.A. *cum laude* '50, B.S. '52, M.A. '53, M.D. '54, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: Word-Association Strength as a Variable in Verbal Paired-Associate Learning. Major Adviser: Prof. Kenneth MacCorquodale.

Te-Tzu Chang, Taipei, China

B.S. '49, University of Nanking; M.S. '54, Cornell University. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Analysis of Genes Conditioning Resistance of Oat Varieties to Races of *Puccinia coronata* Corda var. *avenae* F. and L. Major Adviser: Prof. W. M. Myers.

Donald Hanson Clifford, St. Paul

D.V.M. '50, University of Montreal; M.P.H. '55, University of Minnesota. Major: Veterinary Medicine. Minor: Public Health. Thesis: Effect of Preanesthetic Medication on Barbiturate Anesthesia, Hypothermia, Traumatic Shock and Lethal Dose of Pentobarbital in the Feline Species. Major Adviser: Prof. G. W. Mather.

Richard Walter Collier, St. Paul

B.A. '48, University of Minnesota; M.A. '52, University of Hawaii. Major: Sociology. Minor: Anthropology. Thesis: Geographic Mobility of Selected Rural Minnesota Male High School Graduates. Major Adviser: Prof. M. J. Taves.

Gabel Henry Conner, East Lansing, Mich.

B.S. '40, D.V.M. '41, Washington State College; M.S. '43, Iowa State College. Major: Veterinary Medicine. Minor: Physiology. Thesis: The Effects of Collection Methods and Certain Stimuli on the Secretion Rate and Physico-Chemical Properties of Mixed and Individual Gland Saliva of the Bovine. Major Adviser: Prof. G. W. Mather.

Earl Curtis, White River Junction, Vt.

B.S. in Chem. '54, University of Vermont. Major: Physical Chemistry. Minor: Mathematics. Thesis: Comparison of Vibrational Potential Functions. Major Adviser: Prof. Bryce Crawford, Jr.

Robert Lloyd Eng, Gary, S.D.

B.S. '50, South Dakota State College; M.S. '52, Montana State College of Agriculture and Mechanic Arts. Major: Fishery and Wildlife Management. Minor: Botany. Thesis: A Study of the Ecology of Male Ruffed Grouse (*Bonasa umbellus* L.) on the Cloquet Forest Research Center, Minnesota. Major Adviser: Prof. W. H. Marshall.

Pedro Bolivar Escuro, Nabua, Camarines Sur, Philippines

B.S.A. magna cum laude '52, University of the Philippines; M.S. '54, Cornell University. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Relative Effectiveness of Selection for Quantitative Traits in F_2 of Crosses Among Related and Unrelated Lines of Oats. Major Advisers: Profs. W. M. Myers and J. C. Sentz.

Donald Raymond Franklin, Sioux City, Iowa

B.S. with distinction '50, University of Minnesota. Major: Fishery and Wildlife Management. Minor: Biostatistics. Thesis: Some Phases of the Early Life History of the Northern Pike, *Esox lucius* L., with Special Reference to the Factors Influencing the Numerical Strength of Year Classes. Major Adviser: Prof. L. L. Smith.

Carl Theodore Friz, Minneapolis

B.S. '51, M.S. '52, M.S. '53, University of Illinois. Major: Anatomy. Minor: Physiological Chemistry. Thesis: Metabolic Studies on the Isolated Islet Tissue of the Pancreas of *Opsanus tau*. Major Adviser: Dr. Arnold Lazarow.

Basil Furgala, Ottawa, Ontario, Canada

B.S.A. '53, M.Sc. '54, University of Manitoba. Major: Entomology. Minor: Botany. Thesis: A Study of the Preferential Responses of Honey Bees Foraging Various Legumes in Northern Minnesota, and Certain Factors Affecting These Responses. Major Adviser: Prof. F. G. Holdaway.

Joel Emery Gerstl, White Plains, N.Y.

B.A. '54, M.A. '55, Columbia College. Major: Sociology. Minors: Anthropology and Philosophy. Thesis: Career Commitment and Style of Life in Three Middle Class Occupations. Major Adviser: Prof. Theodore Caplow.

Richard J. Goldstein, New York, N.Y.

B.M.E. '48, Cornell University; M.S. in M.E. '50, M.S. '51, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: Interferometric Study of the Steady State and Transient Free Convection Thermal Boundary Layers in Air and in Water About a Uniformly Heated Vertical Flat Plate. Major Adviser: Prof. E. R. G. Eckert.

Clifton Wellington Gray, Raleigh, N.C.

B.S. '46, U. S. Military Academy; M.A. '51, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Detection of Faking in Vocational Interest Measurement. Major Adviser: Prof. D. G. Paterson.

Jack Burton Haskins, Macon, Ga.

B.A. in J. cum laude '49, University of Georgia; M.A. '51, Emory University. Major: Journalism. Minor: Educational Psychology. Thesis: A Content-Oriented Method for Systematic Controlled Expansion of a Magazine Audience. Major Adviser: Prof. R. L. Jones.

Ralph H. Haugen, Northfield

B.A. cum laude '48, Pacific Lutheran College; M.A. '49, Northwestern University. Major: Speech and Theater Arts. Minor: Scandinavian. Thesis: American Drama Critics' Reactions to Productions of August Strindberg. Major Adviser: Prof. K. L. Graham.

John James Hebal, Boulder, Colo.

Ph.B. '47, University of Wisconsin; M.A. '48, University of Alabama. Major: Political Science. Minor: Sociology. Thesis: Field Administration of the Bureau of Indian Affairs in Minnesota and Wisconsin. Major Adviser: Prof. L. M. Short.

Sally McMurdo Hotchkiss, Pittsburgh, Pa.

B.A. '49, Randolph-Macon Woman's College; M.A. '50, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Word Knowledge of Industrial Supervisors. Major Adviser: Prof. D. G. Paterson.

Sanford Norman Hotchkiss, Pittsburgh, Pa.

B.A. magna cum laude '49, M.A. '50, University of Minnesota. Major: Psychology. Minor: Economics. Thesis: Word Knowledge of an Industrial Population. Major Adviser: Prof. D. G. Paterson.

John Hove, Mayville, N.D.

B.S. '37, Valley City State Teachers College; M.S. '46, University of North Dakota. Major: American Studies. Thesis: Rationale for an Industrial Society. Major Adviser: Prof. B. R. Bowron.

Ronald Charles Johnson, Duluth

B.A. '49, University of Minnesota; M.A. '50, University of Denver. Major: Child Welfare. Minor: Sociology. Thesis: A Study of Children's Moral Judgments. Major Adviser: Prof. D. B. Harris.

Raymond Frank Johnston, East Lansing, Mich.

B.S. '35, University of Missouri; M.S. '48, D.V.M. with distinction '49, Michigan State College. Major: Veterinary Medicine. Minor: Pharmacology. Thesis: Toxicological Studies on Certain Tranquilizing Drugs. Major Adviser: Prof. G. W. Mather.

Arvo Kallio, Two Harbors

B.S. '42, M.S. '47, University of Minnesota. Major: Horticulture. Minor: Plant Pathology. Thesis: A Study of the Effect of Photoperiod on the Growth and Development of the Potato (*Solanum tuberosum* L.) at Fairbanks, Alaska. Major Adviser: Prof. R. E. Nylund.

Phillip Andrew Kildahl, Brainerd

B.A. '35, Augsburg College; M.A. '40, University of Minnesota. Major: History. Minor: English. Thesis: British and American Reactions to Layard's Discoveries in Assyria (1845-1860). Major Adviser: Prof. T. B. Jones.

Jae Nam Kim, Seoul, Korea

M.D. '53, Seoul National University. Major: Anatomy. Minors: Physiology and Pathology. Thesis: The Effects of Experimental Diabetes and Subdiabetes on the Offspring of Rats. Major Advisers: Profs. L. J. Wells and Arnold Lazarow.

Keith Irving Loken, Sandstone

B.S. with high distinction '51, D.V.M. '53, University of Minnesota. Major: Veterinary Medicine. Minor: Bacteriology. Thesis: Studies on Infection of the Bovine Mammary Gland With Staphylococci. Major Adviser: Prof. H. H. Hoyt.

James Burke Lyon, Palo Alto, Calif.

B.A. '37, Hamline University; M.A. '47, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: A Study of Experiential, Motivational, and Personality Factors Related to Vocational Decision Versus Indecision. Major Adviser: Prof. C. G. Wrenn.

Ching Hou Ma, Chekiang, China

B.S. '43, National Tangshan Engineering College (China); M.S. '50, Missouri School of Mines and Metallurgy. Major: Metallurgy. Minor: Physical Chemistry. Thesis: Solute Diffusion in Liquid Tin. Major Adviser: Prof. R. A. Swalin.

Charles Franklyn MacLeod, Quebec, Ontario, Canada

B.Sc.A. '48, McGill University; M.A. '50, University of British Columbia. Major: Fishery and Wildlife Management. Minors: Biostatistics and Botany. Thesis: The Population Dynamics of Unconfined Populations of the House Mouse (*Mus musculus* L.) in Minnesota. Major Advisers: Profs. J. R. Beer and W. H. Marshall.

Henry William Maier, Minneapolis

B.A. '47, Oberlin College; M.S.W. '49, Western Reserve University. Major: Social Work. Minor: Child Welfare. Thesis: Three Current Child Development Theories Applied to Child Caring Tasks. Major Adviser: Prof. Gisela Konopka.

Robert Gilmore McKinnell, Springfield, Mo.

B.A. '48, University of Missouri; B.S. '49, Drury College. Major: Zoology. Minor: Physiological Chemistry. Thesis: Differentiation of Early Chick Embryonic Tissues Pretreated in Non-Nutrient Saline. Major Adviser: Prof. N. T. Spratt, Jr.

Kenneth Nelson Owens, Vancouver, Wash.

B.A. *summa cum laude* '55, Lewis and Clark College. Major: History. Minor: Political Science. Thesis: Frontier Governors; A Study of the Territorial Executives in the History of Washington, Idaho, Montana, Wyoming and Dakota Territories. Major Adviser: Prof. D. W. Noble.

Jean Richardson Pearman, Marquette, Mich.

B.A. '38, Nebraska State Teachers College; M.A. '45, University of Nebraska. Major: Economics. Minor: Social Work. Thesis: A Survey of Economic Security Programs in Michigan. Major Adviser: Prof. J. G. Turnbull.

Roald Arnold Peterson, Watford City,
N.D.

B.S. '38, M.S. '39, North Dakota Agricultural College. Major: Botany. Minors: Biostatistics and Soils. Thesis: Influence of Grazing History Upon Responses of *Stipa comata* Trin. and Rupr. to Frequent Defoliation and Other Treatments at Miles City, Montana. Major Advisers: Profs. G. B. Ownbey and W. E. Martin.

Calder M. Pickett, Lawrence, Kan.

B.S. '44, Utah State Agricultural College; M.S.J. '48, Northwestern University. Major: American Studies. Thesis: Six New York Newspapers and Their Response to Technology in the Nineteenth Century. Major Adviser: Prof. Edwin Emery.

Donald Nellis Robinson, Rochester,
N.Y.

B.A. '55, Cornell University. Major: Organic Chemistry. Minor: Chemistry. Thesis: The Reactions of Indoles with Carbonyl Compounds. Major Adviser: Prof. W. E. Noland.

Robert Mayer Schwartzman, New
Haven, Conn.

V.M.D. '52, University of Pennsylvania; M.P.H. '58, University of Minnesota. Major: Veterinary Medicine. Minor: Public Health. Thesis: A Clinico-Pathological Study of Small Animal Dermatoses. Major Adviser: Prof. G. W. Mather.

Paul Charles Scott, Bethesda, Md.

B.A. '54, Cornell University. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Determination of Enthalpies of Complex Ion Formation by Solution Calorimetry. I. Cupric Ion with Ammonia. II. Iron (III) with Fluoride. Major Adviser: Prof. Z. Z. Hugus, Jr.

Norman James Simler, St. Paul

B.S. *summa cum laude* '49, M.A. '53, Georgetown University. Major: Economics. Minor: History. Thesis: The Impact of Unionism on Wage-Income Ratios in the Manufacturing Sector of the Economy. Major Adviser: Prof. J. G. Turnbull.

Heinz Sorger-Domenigg, Graz, Austria

B.S. with distinction '51, M.S. '54, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Structural Studies on Oat Glucan. Major Adviser: Prof. Fred Smith.

Kingsley Rowland Stern, Port Eliza-
beth, South Africa

B.S. '49, Wheaton College; M.A. '50, University of Michigan. Major: Botany. Minor: Horticulture. Thesis: A Revision of the Genus *Dicentra* Bernh. (Fumariaceae). Major Adviser: Prof. Thomas Morley.

Bert Oram Thomas, Greeley, Colo.

B.S. '50, M.S. '52, Colorado State College of Agriculture and Mechanic Arts. Major: Zoology. Minor: Botany. Thesis: The Biodynamics of Sedimentation in Horseshoe Lake, Isanti County, Minnesota. Major Adviser: Prof. Samuel Eddy.

William James Turnock, Winnipeg,
Manitoba, Canada

B.S.A. '49, University of Manitoba; M.S. '51, University of Minnesota. Major: Entomology. Minor: Botany. Thesis: Emergence of the Larch Sawfly, *Pristiphora erichsonii* (Hartig) in Relation to Soil Temperature and Weather Patterns. Major Adviser: Prof. A. C. Hodson.

James Arthur Whelan, Owatonna

B.Min.E. with distinction '49, M.S. in Min. and Pet. Eng. '56, University of Minnesota. Major: Geology. Minor: Mineral Engineering. Thesis: A Study of Hisingerite and Related Silicates. Major Adviser: Prof. J. W. Gruner.

Robert Lee Whitner, Walla Walla,
Wash.

B.A. '41, Central Washington College of Education; M.A. '48, State College of Washington. Major: History. Minor: Political Science. Thesis: The Methodist Episcopal Church and Grant's Peace Policy: A Study of the Methodist Agencies, 1870-1882. Major Advisers: Profs. W. D. Beatty and E. S. Osgood.

Gordon Louis Willette, Dighton,
Mass.

B.Sc.Chem. '55, Brown University. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Chemistry of Benzo-1,4-Oxathia-diene. Major Adviser: Prof. W. E. Parham.

David Anson Woodward, Dickinson,
N.D.

B.A. '54, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: A Linear Transformation of Double Wiener Integrals. Major Adviser: Prof. R. H. Cameron.

Lawrence Samuel Wrightsman, Jr.,
Houston, Tex.

B.A. with honors '53, M.A. '54, Southern Methodist University. Major: Psychology. Minor: Educational Psychology. Thesis: The Effects of Small-Group Membership on Level of Concern. Major Adviser: Prof. Stanley Schachter.

Donald Edward Young, Minneapolis
B.A. *cum laude* '46, Ripon College; M.S. '51, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Proton Proton Scattering at 10 and 68 Mev. Major Adviser: Prof. L. H. Johnston.

Donald Richard Zander, Minneapolis
B.A. '49, Concordia College; M.A. '50, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Influence of an Orientation Program on Attitudes Toward Higher Education. Major Advisers: Profs. C. G. Wrenn and Ben Willerman.

Summary of Degrees Conferred by the University During the Academic Year 1958-59

Conferred July, August, and December 1958; March 1959.....	2,659*
Conferred June 1959 (subject to completion of requirements).....	<u>3,010</u>
Total degrees conferred 1958-59.....	5,669

* Includes 127 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.

THE
UNIVERSITY OF MINNESOTA

Announces Its

July Commencement

1959

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, JULY 16

AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. Laurence R. Lunden, Secretary

Mr. Clarence E. Larson, Assistant Secretary

Mr. E. C. Jackson, Treasurer

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

The Honorable George W. Lawson, St. Paul
Second Vice President

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

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

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, M.D., Rochester

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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 the 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 eighth 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 leader 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 146,000 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 26,000 students on its Minneapolis, St. Paul, and Duluth 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 three 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 Twin City Area Educational Television Station KTCA-TV, 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 contribu-

tions have made it possible for the University to build the Masonic Memorial Hospital and are making it possible to construct Diehl Hall (which will house the biological-medical library and additional medical research facilities) and the Veterans of Foreign Wars Cancer Research Center.

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 for the two years, 1959-60 and 1960-61.

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 1957-58 showed that the University received \$78,192,595.44 and spent \$78,196,960.26. This includes a total of \$13,137,045.97 received from student tuition and fees, hospital and other department receipts; \$1,412,790.67 from intercollegiate athletics; \$12,698,158.03 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 \$14,227,127.38 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, as well as from the Permanent University Fund derived from land set aside by the Federal Government, and the occupational tax on iron ore. Also, \$2,439,375.73 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$78,192,595.44 which the University received for 1957-58, \$34,278,097.66 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 candidates for degrees 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 Miss Helen Garvey, SLA '60, 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.

PRELUDE ORGAN CONCERT: From 7:30 to 8:00 p.m., Mr. Edward Berryman, M.A., will play:

Selections from <i>Water Music</i>	- - - - -	Handel
<i>The Swan</i>	- - - - -	Saint-Saëns
<i>Sonata VI</i>	- - - - -	Mendelssohn

PROCESSIONAL:

<i>Trumpet Voluntary</i>	- - - - -	Purcell
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ON THE STAGE: As candidates for degrees enter the Auditorium at 8:00 p.m., the curtain will be opened. Seated on the platform, left to right, are:

Associate Professor Irvin E. Liener, Ph.D., Institute of Agriculture, Marshal; Assistant Professor George J. McCutcheon, Ph.D., General College, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Captain Robert C. Engle, USA, Assistant Professor of Military Science and Tactics; Associate Dean Alfred L. Vaughan, Ph.D., General College; Colonel Arthur W. Dern, USAF, Professor of Air Science; Associate Dean Marcia Edwards, Ph.D., College of Education; Dean Robert B. Howard, M.D., College of Medical Sciences; Assistant Dean of Students Martin L. Snoke, Ph.D.; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Mr. John C. Schwarzwaldner, Ph.D., General Manager of KTCA-TV, Commencement Speaker; Dean E. W. Ziebarth, Ph.D., Summer Session; Vice President Laurence R. Lunden, LL.D., Business Administration; Dean Robert E. Summers, M.S., Admissions and Records; The Reverend E. Clayton Burgess, Adviser to Methodist students and staff members on the St. Paul Campus; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Associate Dean John G. Darley, Ph.D., Graduate School; Colonel Robert O. Bowen, USMC, Professor of Naval Science; Assistant Dean Austin A. Dowell, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Assistant Dean Reuel I. Lund, Ph.D., School of Business Administration; Professor Roy A. Schuessler, M.M., Music; Associate Professor Warren S. Loud, Ph.D., College of Science, Literature, and the Arts, Marshal.

PRESENTATION OF COLORS: As the color guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, enters

Order of Events

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 E. Clayton Burgess.

SPEAKING FOR THE UNIVERSITY: Dean Ziebarth.

COMMENCEMENT ADDRESS: Mr. John C. Schwarzwaldner, General Manager of KTCA-TV, "Educational Television and the Sense of Urgency."

CONFERRING OF ROTC CERTIFICATES: Dean Summers will introduce Captain Engle, Colonel Bowen, and Colonel Dern, who will present the candidates for commissions in their respective branches of the Armed Services. Certificates of ROTC Completion will be presented by Dean Ziebarth.

PRESENTATION OF CANDIDATES: Dean Summers will introduce the deans of the several colleges or their representatives who will present to Dean Ziebarth the candidates for certificates and degrees. They are, in order of their introduction: Associate Dean Vaughan for the General College; Dean McDiarmid for the College of Science, Literature, and the Arts, and for University College; Dean Spilhaus for the Institute of Technology; Assistant Dean Dowell for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Edwards for the College of Education; Assistant Dean Lund for the School of Business Administration; Dean Howard for the College of Medical Sciences; Associate Dean Darley for the Graduate School.

CONFERRING OF DEGREES: Dean Ziebarth will confer certificates and degrees upon the members of this graduating class.

Order of Events

PRESENTATIONS OF DIPLOMAS: With Assistant Dean Snoke presiding, members of the July 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 Associate Dean Darley to Dean Ziebarth, who will confer the degrees.

HAIL! MINNESOTA, the University's Alma Mater song. 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.

RECESSIONAL: Mr. Berryman, organist.

Toccata - - - - - *Gigout*

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 first 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 AND TACTICS

Second Lieutenant, Artillery

Kenneth George Bucher, White Bear Lake

DEPARTMENT OF NAVAL SCIENCE

Ensign, USNR

Andrew Joseph Keuser, Minneapolis

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

LeRoy Bengston, Grand Rapids

Henry H. Grosskreutz, Fenwood,
Wis.

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

Westley John Bengston, Minneapolis
Howard Kenneth Boxmeyer, St. Paul
Harold Melvin Dahl, Minneapolis
Janet Carol Fitzel, St. Paul
Charles Jerome Gregory, Minneapolis
Dennis Carlton Lytle, Richfield
Ronald David Mahoney, Grand
Meadow

John Mentor Nelson, Minneapolis
Donald Edward Rachner, Minne-
apolis
Sherrill Jene Scheele, Minneapolis
Warren Edward Schulze, St. Paul
David Allen Shodean, Detroit Lakes
Garry Lawrence Thoe, Mound
Jack Eugene Wam, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Judith Dianne Kraft, Minneapolis

Janice Lorraine Wolke, Minneapolis

Bachelor of Arts

Raymond Lawrence Allen, A.A., Minneapolis

Martin Allen Apple, A.L.A., St. Paul,
MAGNA CUM LAUDE

Kent Warren Baker, Albert Lea

Paul Gregory Bigelbach, St. Paul

Donald Charles Brandvold, Minneapolis

Robert Michael Brown, St. Paul

Kay Leone Chappell, Willmar

Neil Hamilton Check, Jr., Minneapolis

Conchita Louise Clow, A.A., Ridge-
wood, N.J.

Mary Norman Crosby, Minneapolis,
CUM LAUDE

George Warren Curtis, Jr., Merrill,
Wis.

John Bruce Derrick, Minneapolis

Donald George Dick, Minneapolis

Elaine Marian Dufort, Minneapolis

Beatrice Elizabeth Dvorak, Minneapolis

Richard Mason Ferris, Minneapolis

Paul Allen Finseth, Minneapolis

Toni Lee Goldish, Minneapolis,
CUM LAUDE

Lawrence William Hallfin, St. Paul

Milan Leslie Hamilton, Minneapolis

Mary Karen Hanson, A.L.A., St. Paul

Everett Jerome Hedman, Minneapolis

Lana Jane Holzheid, White Bear Lake

Lowell James Hyland, Austin

Donald James Hylander, Zimmerman

Sharon Ann Jahn, St. Paul

Warren Julius Jeppesen, Minneapolis

Richard N. Johnson, Minneapolis

Andrew Joseph Keuser, Minneapolis

Evelyn Alma Kidneigh, Minneapolis

Duane Roger Larson, A.L.A., Minneapolis

Philip James Larson, Albert Lea

Clark Dales Lawrence, Minneapolis

Albert O.K. Kyoon Lee, Wahiawa,
Hawaii

Marcia Perry Leider, St. Paul

David John Lentz, Minneapolis

Ruth Brandenburger Loewenson,
Minneapolis

Ruth Anne Lorber, Minneapolis

Sara Newhart Martineau, Minneapolis

Michael Church McClellan, Minneapolis

Robert Kyle McCrea, Edina

John Wayne McInnis, St. Paul

Elaine Rosalyn Meltz, Minneapolis,
MAGNA CUM LAUDE

John Gerald Meyer, Minneapolis

Beverly Marie Mindrum, Palisade

John William Miskowicz, Minneapolis

Robert Clare Mitby, A.A., Minneapolis

Mark Sheldon Movold, Alexandria

James William O'Brien, Grand
Rapids

Burton Sherwood Olson, West St.
Paul

David Bennett Orfield, Minneapolis

Dolores Marie Randolph, Hastings,
Neb., CUM LAUDE

Richard Clinton Reem, Aitkin, CUM
LAUDE

Gerald Denny Rork, Minneapolis

Orpha Highland Rydning, Wayzata

Lisbeth Saloschin, Minneapolis, CUM
LAUDE

David Arthur Seeland, South St. Paul

Elva Lucy Slaughter, Des Moines,
Iowa

James Mark Snyder, St. Paul

Morgan Axel Soderberg, St. Paul,
CUM LAUDE

Ronald Merrill Starr, A.A., Minne-
apolis
Raphael Charles Stringer, Minne-
apolis
Nelson Cornelius Sullivan, Minne-
apolis, CUM LAUDE

Gail Laurie Syverton, Wayzata
Nancy Ruth Tufford, Minneapolis,
CUM LAUDE
James Curtis Udem, Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

William Edward Freckleton, Wi-
nona

Patricia M. Reeves, G.D.H., Minne-
apolis, CUM LAUDE

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Lawrence Henry Breimhurst, St. Paul
James Oliver Hedeen, St. Paul
Elmer James Kopp, Plummer, WITH
DISTINCTION
Charles Vernon Lundeen, A.A.,
Robbinsdale, WITH DISTINCTION
Leo George Mielke, Minneapolis,
WITH DISTINCTION

Paul William Palmberg, A.A., Valley
Springs, S.D., WITH HIGH DISTINC-
TION
Calvin Lee Ransom, Marietta
Lloyd Raymond White, Minneapolis,
WITH DISTINCTION

Bachelor of Architecture

Lowell Milton Stroom, Hallock, WITH DISTINCTION

Bachelor of Chemistry

Yvonne Feng-Tsai Chien, Taipei,
Taiwan, China

Terry C. Gunther, Wayzata

Bachelor of Civil Engineering

Kenneth George Bucher, White Bear
Lake
Burton Hubert Dworsky, Minneapolis
John Victor McCreery, Lindstrom

Karl Franz Mielke, Redwood Falls
Leo Patrick Warren, Minneapolis
Maurice Leon Wilson, St. Paul

Bachelor of Electrical Engineering

Charlie Wesley Hiller, Zimmerman
Philip F. Langlotz, St. Paul

Donald Ray Mittelstadt, St. Cloud

Bachelor of Geological Engineering

Paul Benjamin Glaesemann, Bemidji

Bachelor of Mechanical Engineering

Leland Edward Anderson, Babbitt

Russell James Cloud, St. Paul

Bernard Warren Gaffron, Minneapolis

Robert David Gaines, Minneapolis

Myron Noel Leverson, Minneapolis

Christian Albert Schlegel, Staples

Bachelor of Physics

Francis James McFadden, St. Paul, WITH DISTINCTION

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

Bachelor of Science

David Richard Andreasen, Owatonna,
Forestry

Joan Lenore Foss, Minneapolis, Home
Economics

Wynn Mae Herou, St. Paul, Home
Economics

*Barbara Helen Kiernat, St. Paul,
Home Economics, WITH DISTINC-
TION*

Lawrence Joseph Lescantz, Anaconda,
Mont., Agriculture

Alan Blaine Sargeant, St. Paul, Agri-
culture

*William Dale Schmid, Excelsior, Ag-
riculture, WITH DISTINCTION*

LaVerne Arthur Schultz, Austin,
Forestry

Corinne Alice Schumacher, South St.
Paul, Home Economics

Frederick Castle Stanley, Minneapolis,
Agriculture

Ward Byron Voorhees, Benson, Agri-
culture

Elizabeth Ann Wertish, Blomkest,
Home Economics

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

Bachelor of Science

*LaDonna Floy Barwald, West Con-
cord, Home Economics Education,
WITH DISTINCTION*

Ann Louise Benson, Isle, Home Eco-
nomics Education

Charlotte Ann Hansen, Minneapolis,
Home Economics Education

Barbara Joan Johnson, Aitkin, Home
Economics Education

Mary Elizabeth Olson, Minneapolis,
Home Economics Education
Eugene Edwin Reddemann, Le Cen-
ter, Agricultural Education

Alice Ruth Requa, Austin, Home
Economics Education
Eleanor Louise Setterberg, Slayton,
Home Economics Education, WITH
DISTINCTION

COLLEGE OF EDUCATION

Bachelor of Science

Thelma Anderson, Albert Lea, WITH
DISTINCTION

Peter Charles Badali, Minneapolis
Paul Richard Barrington, Minneapolis
Beverly Ann Wolff Beling, Minne-
apolis*

Verdell M. Haack Bennett, Minne-
apolis

Alice Victoria Benson, Hopkins

Gregory Earl Bergeron, Coon Rapids

Roger Henry Buranen, Minneapolis

Diane Alice Carley, Minneapolis

Joan Marie Carlson, Donaldson, Ind.*

Karine Rose Carlson, Nashwauk

Marian Louise Carlson, Marinette,

*Wis., WITH DISTINCTION**

Paul Kragh Caspersen, Minneapolis

Agnete Bagger Christiansen, St. Paul,

WITH HIGH DISTINCTION

Anthony Samuel Costa, St. Paul,

WITH DISTINCTION

Avis J. Casely de Dick, Colon, Pana-
ma

Walter Edwin Erickson, Minneapolis

Loreen Marie Farwick, Pipestone,

WITH DISTINCTION

Richard Wayne Foley, Albert Lea

Solveig Margit Berg Foley, Monte-
video

Karen Ann Friets, Bancroft, Iowa*

Joy Mickle Gaylord, Richfield

Douglas Eugene Gillen, Minneapolis

La Verne Steinke Ginter, Robbinsdale

Louise Martha Heine, New Prague

R. Jean Helgeson, A.A., Minneapolis

Muriel Hill Int Veld, St. Paul, WITH
DISTINCTION

Richard Henry Jacobsen, Hopkins

Sigurd Karl Jacobson, Minneapolis

Matilda Ann Alar Johnson, St. Louis
Park, WITH DISTINCTION

Selma C. Turnquist Kaihoi, Minne-
apolis

Mary Kathryn Klaurens, Minneapolis

Delilia Faye Klinghagen, Lennox,
S.D.

Robert Alan Knudtson, Minneapolis

Evelyn Maybelle Kolling, St. Louis
Park

Lauri Jacob Koskinen, Hibbing

Joanna Margaret Krueger, St. Paul,

WITH DISTINCTION

Luella Jacobson Kuehn, Minneapolis

Dennis Bruce Kueng, North St. Paul

Patsy Ruth Lanes, Montevideo*

Donald Norbert Lange, Echo

James Richard Laska, A.A., Winona

Erma Ellerbrock McGuire, A.A., St.

Paul, WITH DISTINCTION

Vera C. McWilliams, Crystal Bay

Juanita Marie Merz, Natoma, Kan.*

Sally Ann Moody, St. Paul*

Mildred Zealand Nelson, Minneapolis,

WITH DISTINCTION

Ardis Margaret Ohlson, St. Paul

De Lores L. Olson, B.A., St. Paul

Helen Loretta O'Neill, Beardsley

Doris Bertha Pagel, M.A., St. Charles

Mary Helen Peck, St. Paul

LaVern Elbert Peterson, Aitkin

Jeralyn Jean Plack, Minneapolis

Lloyd Howard L. Reichstadt, Lind-
strom-Center City

Emily F. Nelson Reid, Minneapolis

* Nursing Education Curriculum.

John Richard Riggs, Minneapolis
 Karl E. Ruthenbeck, Virginia, WITH
 DISTINCTION
 William Walter Sandback, Minne-
 apolis, WITH DISTINCTION
 Marcia Vae Scribner, Minneapolis
 Muriel Viola Selander, Minneapolis
 Vonna Lou Shelton, Peoria Heights,
 Ill.
 Janice Gail Carlberg Sorell, St. Louis
 Park, WITH DISTINCTION
 Ardelle Malette South, Robbinsdale
 Valborg Johanna Stenoien, B.A.,
 Minneapolis
 Vernon Russell Sunset, Roseau
 Joanne Mary Sutcliffe, Ottawa, Ill.,
 WITH HIGH DISTINCTION*
 Clara Ruth Swanson, Minneapolis,
 WITH DISTINCTION

Ruth Marie Swedenborg, St. Paul
 Pauline Teeter, Minneapolis
 Cecilia McGowan Tentis, St. Paul
 Arlene Jeanette Peterson Thone, Al-
 bert Lea, WITH DISTINCTION
 Bernice Agnes Tordsen, Minneapolis
 Lewis John Trumper, Jr., St. Paul
 Patricia Lee Luhmann Vaia, Owa-
 tonna
 Lois Ann Vielguth, Thief River Falls,
 WITH HIGH DISTINCTION
 Tad Ronald Voss, B.A., Minneapolis
 William Orestee White, Birmingham,
 Ala.
 James Bernard Zellmer, A.A., Minne-
 apolis
 Edith Victoria Larson Zuehlke, St.
 Paul, WITH DISTINCTION

Master of Education

Owen Pierce Evans, B.S., Berlin, Wis.
 Grace Marquardt Johnson, B.A., Min-
 neapolis
 Eugenie Aileen Schoen, B.A., Madi-
 son, Wis.

Hazel Arlene Sherf, B.S., Minneapolis
 Sister M. Joel Niedzielski, B.S., Bis-
 marck, N.D.
 Burton Lyle Wrede, B.S., Rapid City,
 S.D.

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Michael Welch Arend, St. Paul
 LeRoy Alvin Bengston, Grand Rapids
 Richard Roger Bergendahl, Minne-
 apolis
 Odd Ingolf Berger, Oslo, Norway
 Luther David Bostrack, Whalan
 Robert Mortimer Burdick, Minne-
 apolis
 Rudolph Albert Globokar, Jr., Bi-
 wabik
 Roger Walter Gustafson, Monticello
 Thomas Bertan Hjelm, St. Paul
 Ronald Keith Johnson, Minneapolis

Robert Eugene Kurvers, A.A., Nor-
 wood
 Charles Walter Luedloff, Norwood
 Arthur Edward Maass, A.A., Roches-
 ter
 John Charles Ralston, Eau Claire,
 Wis.
 Allan D. Rassman, Claremont
 Frederick Starr Ryan, St. Paul
 Lloyd Orvin Schatschneider, Detroit
 Lakes
 Howard John Super, Little Falls

* Nursing Education Curriculum.

Bachelor of Science in Business

Dale Adrian Ackmann, White Bear
Lake

Gerald Michael Keenan, Minneapolis

Bachelor of Science in Economics

Richard William Cress, Morris

LAW SCHOOL

Bachelor of Laws

Harvey Sarner, B.S.L., New York, N.Y.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing Administration

Oletta Janet Anderson, Fergus Falls
Patricia Leigh Buttke, Valley City,
N.D., WITH HIGH DISTINCTION
Margaret Ling Canfield, St. Paul,
WITH DISTINCTION
Vivian Maxine Gersema, Cedar Falls,
Iowa, WITH HIGH DISTINCTION

Helen Marcella Jameson, R.N.,
Houston
Sister M. Laetitia E. Van der Geest,
Hastings, WITH DISTINCTION
Mary Esther Tananis, Minersville, Pa.,
WITH DISTINCTION

Bachelor of Science

David B. Auran, B.A., Hopkins,
Medicine
Allan Dinwoodie Belden, Red Wing,
Medicine
Evelyn R. Carpenter Chase, Minne-
apolis, Public Health Nursing
James Jerome Diehl, B.S. Dentistry,
D.D.S., St. Paul Medicine
John Richard Gaertner, St. Paul,
Medicine
Edward Michael Hanton, St. Paul,
Medicine
Howard William Higholt, Duluth,
Medicine
Roderick Power Hood, Duluth, Medi-
cine

Joyce Rose Isfeld, St. Paul, Public
Health Nursing, WITH DISTINCTION
James Arthur Kunz, South St. Paul,
Medicine
Peter John Lynch, St. Paul, Medicine
Charles Harmon Pierce, B.A., Anoka,
Medicine
John Joseph Salchert, Minneapolis,
Medicine
George Edward Schaffhausen, B.A.,
St. Paul, Medicine
William James Siverhus, B.A., Min-
neapolis, Medicine
Boyd Allen Skille, Minneapolis,
Medicine
William Moyer Stauffer, Allentown,
Pa., Medicine

Agnes Jean Thomas, East Grand
Forks, Public Health Nursing
Marilyn Ann Uhl, Cedar Falls, Iowa,
Public Health Nursing
Dennis Palmer Welcome, B.A., Man-
kato, Medicine

Dale Einar Wenlund, B.A., Cokato,
Medicine
Joseph John Westermeyer, Melrose
Park, Ill., Medicine

GRADUATE SCHOOL

Master of Arts

Edward Alexander, Brooklyn, N.Y.

B.A. '57, Columbia University. Field of Con-
centration: English.

Robert E. Ascheman, Lewiston

B.S. '55, University of Minnesota. Field of
Concentration: Agricultural Education.

Duncan Hall Baird, St. Paul

B.A. '39, Yale College; LL.B. '42, University
of Michigan. Major: Political Science. Minor:
History. Thesis: Constitutional Limitations in
Practice and in Theory.

Thomas Clifford Barrett, Anoka

B.S. with distinction '54, University of Min-
nesota. Field of Concentration: Curriculum
and Instruction.

Harold Roy Beuschlein, Ypsilanti,
Mich.

B.A. '56, Michigan State Normal College. Field
of Concentration: Spanish.

Marvin Frederick Busse, St. Paul

B.S. '54, Dr. Martin Luther College. Field of
Concentration: Music.

Robert E. Carlson, Minneapolis

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

Carmen Charles Caruso, Minneapolis

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

Virgil Earl Christensen, Tyler

B.S. '50, South Dakota State College of Agri-
culture and Mechanic Arts. Field of Concen-
tration: Agricultural Education.

Kenneth Allen Clausen, Minneapolis

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

William Carpenter Collins, St. Paul

B.A. *cum laude* '57, University of Minnesota.
Major: Music. Minor: Psychology. Thesis:
Hymn and Benediction.

Richard Lee Cundy, Anoka

B.S. '52, University of Minnesota. Field of
Concentration: Educational Administration.

Hans Peter Dietz, Mayen, Germany

Graduate '56, Rheinische Friedrich-Wilhelms
University. Field of Concentration: Greek.

Richard Frank Durand, Minneapolis

B.S. '50, St. Cloud State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Theodore Robert Edin, Milaca

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

Daniel Robert Edstrom, Floodwood

B.S. '49, St. Cloud State Teachers College.
Field of Concentration: Educational Adminis-
tration.

Gerry Louis Fellman, Omaha, Neb.

B.Sc. in Law '54, LL.B. '56, University of
Nebraska. Field of Concentration: Industrial
Relations.

Ezra Gebremedhin, Addis Ababa,
Ethiopia

B.A. '57, University College of Addis Ababa
(Ethiopia). Field of Concentration: Education.

Jane Mary Haas, Minneapolis

B.S. '55, North Dakota Agricultural College.
Field of Concentration: English.

George Sigvard Hagglund, Duluth

B.A. '57, University of Minnesota. Field of
Concentration: Industrial Relations.

Lois Reel Hammer, Jenera, Ohio

B.A. *magna cum laude* '57, Bowling Green State University. Major: Psychology. Minor: Educational Psychology. Thesis: Acquisition and Extinction of a Running Response as a Function of Delay of Reward.

Hugh Earl Hawkins, St. Paul

B.B.A. '53, University of Minnesota. Field of Concentration: Industrial Relations.

Russell Norman Hill, Minneapolis

B.S. '50, St. Cloud State Teachers College. Field of Concentration: Educational Administration.

Asad Husain, Patna, Bihar, India

B.A.(Hons.) '51, M.A. '53, Patna University; M.A. '56, University of Minnesota. Field of Concentration: International Relations.

Harland Ernest Johnson, Ketchikan, Alaska

B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Signie Anna Johnson, Sioux Falls, S.D.

B.A. *magna cum laude* '53, Augustana College (South Dakota). Field of Concentration: Educational Psychology.

Robert James Johnston, Roberts, Wis.

B.S. '50, Wisconsin State College (River Falls). Field of Concentration: Curriculum and Instruction.

James Jones, St. Louis Park

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

Neza Karo, Hadera, Israel

Graduate '39, Hebrew University (Jerusalem). Field of Concentration: Educational Psychology.

Martin Harm Klingenberg, Pillager

B.S. '50, University of Minnesota. Field of Concentration: Agricultural Education.

Bon Ho Koo, Taegu, Korea

B.A. '55, Seoul National University. Field of Concentration: Economics.

James Luther Lineberger, Jr., Concord, N.C.

B.A. '57, Catawba College. Major: Speech and Theater Arts. Minor: English. Thesis: From Story to Play: An Analysis of the Development of a Full-Length Play from an Original Short Story.

Emma Jane Luebstorff, Boyd, Wis.

B.S. '54, Wisconsin State College (La Crosse). Field of Concentration: Physical Education.

Joan Alice Marum, Rochester

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

Dona Drumm Motts, Pipestone

B.A. *cum laude* '51, University of Minnesota. Major: Sociology. Minor: English. Thesis: Acculturation and Cultural Marginality of Mexican Americans in a New Mexico Community.

Lila Marie Nelson, Minneapolis

B.S. with high distinction '54, University of Minnesota. Field of Concentration: English.

Roger Gale Olstad, Minneapolis

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

Necla Palamutlu, Izmir, Turkey

B.A. *cum laude* '58, Doane College. Field of Concentration: Educational Psychology.

Gerhard Penner, Winnipeg, Manitoba, Canada

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

Urban Lawrence Plain, Jr., Minneapolis

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

Charles Roland Purdy, Minneapolis

B.S. '48, University of Nebraska. Field of Concentration: Economics.

Sister Rita Jean Tauer, St. Paul

B.A. '55, College of St. Catherine. Field of Concentration: Mathematics.

Jamil Wasti Syed, Karachi, Pakistan

B.A. '41, University of Lucknow; M.A. '43, University of Aligarh. Field of Concentration: English.

Bernard LeRoy Thompson, Mora

B.A. '49, Macalester College; B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Phil Trautner, Pierre, S.D.

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

Helen Thorpe Tressel, Minneapolis
B.A. *cum laude* '34, Carleton College; B.S.
'51, University of Minnesota. Field of Con-
centration: Curriculum and Instruction.

Arlys Marian Utech, Bemidji
B.S. *cum laude* '55, Bemidji State Teachers
College. Field of Concentration: Curriculum
and Instruction.

Gwendolyn Kay Endicott Wetter,
Eugene, Ore.
B.A. '56, University of Oregon. Field of Con-
centration: American Studies.

Raymond Allan Ziebarth, Carlton
B.S. '54, University of Minnesota. Field of
Concentration: Educational Administration.

Master of Arts in Public Administration

James Leon Hanson, Huron, S.D.
B.S. '56, South Dakota State College of Agri-
culture and Mechanic Arts. Field of Concen-
tration: Public Administration.

Zuhair A. Shammah, Lebanon
B.A. '54, American University (Cairo). Major:
Public Administration. Thesis: Local Govern-
ment and Administration in Lebanon.

James Perry Sweeney, Lansdowne, Pa.
B.S. *magna cum laude* '57, Boston University.
Field of Concentration: Public Administration.

Master of Business Administration

Joan Thiede Smith, St. Paul
B.S. in Econ. '43, University of Minnesota.
Field of Concentration: Business Administra-
tion.

Master of Forestry

Peter Frederick Ffolliott, St. Charles,
Ill.
B.S. with distinction '58, University of Min-
nesota. Field of Concentration: Forestry.

Master of Science

Robert Frederick Benson, Minneapolis
B.S. '56, University of Minnesota. Field of
Concentration: Physics.

Arthur Brede Berg, Minneapolis
B.A. *cum laude* '58, University of Minnesota.
Major: Geology. Minor: Mining Engineering.
Thesis: The Geology of the Northwestern
Corner of the Tobacco Root Mountains, Madi-
son County, Montana.

John Alan Brown, Minneapolis
B.A. '51, University of Minnesota. Field of
Concentration: Mathematics.

Richard Lee Buchheit, St. Louis Park
B.A. '56, Carleton College. Major: Geology.
Minor: Mining Engineering. Thesis: The
Opaque Minerals of the Basic Igneous Rocks
of Minnesota.

Maximo Cabrera, Cochabamba,
Bolivia
Graduate '57, University of San Simon
(Bolivia). Major: Plant Genetics. Minor: Plant
Pathology. Thesis: Inheritance of Rust Re-
action and Other Characters in a Kenya X
Selkirk Wheat Cross.

Ronald Perrin Covey, Jr., Minneapolis
B.S. '56, University of Minnesota. Major:
Plant Pathology. Minor: Botany. Thesis:
Studies on the Seedling Blight of Corn Caused
by *Fusarium graminearum*.

Bruno Carlos de Almeida Cunha,
Belo Horizonte, Brazil
Graduate '56, University of Minas Gerais. Ma-
jor: Bacteriology. Minor: Agricultural Bio-
chemistry. Thesis: Synthesis, Destruction and
Absorption of Vitamin B₆ by *Escherichia coli*
and the Influence of Antibiotics.

William Just Dewey, Mankato

B.A. '57, University of Minnesota. Field of Concentration: Biostatistics.

David Ashmun Dobbins, Grosse Pointe Farms, Mich.

B.A. '57, Oberlin College. Major: Geology. Minor: Geophysics. Thesis: Stratigraphy of Middle and Upper Devonian Strata of the Northeastern Part of Orbisonia Quadrangle, Pennsylvania.

John Everett Foss, St. Paul

B.S. '57, Wisconsin State College (River Falls). Major: Soils. Minor: Geology. Thesis: A Study of the Origin and Distribution of Loess and of the Degree of Soil-Profile Development in Two Loess-Derived Soils in Southeastern Minnesota.

John Keith Frye, Delaware, Ohio

B.A. '57, Oberlin College. Major: Geology. Minor: Physical Chemistry. Thesis: The Petrography of the Ancient Granites of the Minnesota-Ontario Boundary Region.

Lynette Joy Hanson, Minneapolis

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

Harold Benjamin Liemohn, Minneapolis

B.A. *cum laude* '56, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Instability of Contra-Streaming Plasmas.

Roland Francis Line, Cromwell

B.S. with distinction '56, University of Minnesota. Major: Plant Pathology. Minor: Plant Genetics. Thesis: A Study of Potato Seed Piece Decay.

John Henry McAndrews, Robbinsdale

B.S. '57, College of St. Thomas. Field of Concentration: Botany.

Nils K. Nesheim, Vollebekk, Norway

Graduate '55, Agricultural College of Norway. Major: Agricultural Economics. Minor: Economics. Thesis: Market Stabilization in Norway Under the Agricultural Marketing Act.

Zell Edwin Peterman, Massena, Iowa

Geological Engineer '57, Colorado School of Mines. Major: Geology. Minor: Physical Chemistry. Thesis: Petrology of the Metasediments of the Rainy Lake Region.

Chandrika Prasad, Chapra, Bihar, India

Graduate '58, Ranchi Agricultural College (India). Field of Concentration: Agricultural Education.

Richard Allan Watson, New Market, Iowa

B.A. '53, M.A. '57, State University of Iowa. Major: Geology. Minor: Geography. Thesis: Landslides on the East Flank of the Chuska Mountains, New Mexico.

Master of Science in Aeronautical Engineering

Gerald Edward Anderson, Mound

B.S. '53, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Roy Edward Larson, Rosemount

B.Aero.E. with distinction '53, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Master of Science in Chemical Engineering

Dominique Louis Maurice Larré, Paris, France

Graduate '57, Ecole Nationale Supérieure des Industries Chimiques. Major: Chemical Engineering. Minor: Business Administration. Thesis: Axial Conduction Studies in Nuclear Fuel Rods.

Eugene Groves Wollaston, Newark, Del.

B.Ch.E. '57, University of Delaware. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Non-isothermal Two Solute Chromatography.

Master of Science in Civil Engineering

Antonio Santiago-Vazquez, Mayaguez, Puerto Rico

B.S. in C.E. with Honors '56, University of Puerto Rico. Field of Concentration: Civil Engineering.

Iftakhar Haider Zaidi, Karachi, Pakistan

B.E. in C.E. '55, University of Karachi. Field of Concentration: Civil Engineering.

Master of Science in Electrical Engineering

David Walter Bergen, Minneapolis

B.S. with high distinction '57, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of a Modulator Based on a Thermally Controlled Resistance.

Frederick John Wilmers, Duluth

B.S. with distinction '57, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: On the Utilization of the Concept of Bending Impedance on a Mechanical Transmission Line.

Master of Science in Mechanical Engineering

Norman William Brueske, Parkers Prairie

B.S. '57, University of Minnesota. Field of Concentration: Mechanical Engineering.

Master of Science in Medicine

George Pickering Balz, Cincinnati, Ohio

B.A. '48, B.S. '52, M.D. '52, University of Illinois. Major: Medicine. Minor: Physiology. Thesis: A Study of Neuromuscular Conduction in Patients with Malignant Intrathoracic Tumors.

William Eugene Mayberry, Cookeville, Tenn.

M.D. '53, University of Tennessee. Major: Medicine. Minor: Physiology. Thesis: Studies on Pituitary Melanophore Hormone.

James Roy McPherson, Winnipeg, Manitoba, Canada

M.D. '54, University of Manitoba. Major: Medicine. Minor: Physiology. Thesis: The Effect of Various Agents and Diets on Thyroxine Excretion in the Rat.

Philip John Osmundson, Rochester

B.A. '48, M.D. '52, State University of Iowa. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Rupture of the Mitral Chordae Tendineae: A Clinicopathologic Study.

Louis George Stuhler, Rochester

B.S. '49, M.D. '49, University of Minnesota. Major: Medicine. Minor: Pathology. Thesis: Cirrhosis in Women: A Clinico-Pathologic Study.

Herbert Clark Welch, Nanaimo, British Columbia, Canada

B.S. '49, M.D. '51, University of Oregon. Major: Medicine. Minor: Pathology. Thesis: Disease of the Major Coronary Arteries Occurring under the Age of Thirty Years.

Master of Science in Neurosurgery

Robert George Lippert, Kitchener,
Ontario, Canada

B.Sc. '48, McGill University; M.D. '54, University of Toronto. Major: Neurosurgery. Minor: Neuropathology. Thesis: The Effect of Cortisone on Experimental Cerebral Edema.

Master of Science in Orthopedic Surgery

Frank Erwin McCaslin, Jr., Rochester

B.A. '49, Stanford University; M.D. '53, University of Oregon. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Pathologic Alterations Associated with Induced Inflammatory Lesions of the Intervertebral Discs in Dogs.

Master of Science in Pediatrics

Martha Jene Burke Strickland, Hobbs,
N.M.

B.A. '42, M.D. '45, University of Oklahoma. Major: Pediatrics. Minor: Physiology. Thesis: Rat Anaphylaxis and Histamine Release.

Master of Science in Plastic Surgery

Adolf W. Schwartz, Hamburg, Ger-
many

M.D. '51, University of Heidelberg. Major: Plastic Surgery. Minor: Pathology. Thesis: Studies of Polyvinyl-Formal Sponge as Tissue Substitute.

Master of Science in Psychiatry

Floyd Kenneth Garetz, Minneapolis

B.A. *cum laude* '49, B.S. '55, M.D. '55, University of Minnesota. Major: Psychiatry. Minor: Psychology. Thesis: Construction of a Scale to Measure One Aspect of Aptitude of Prospective Psychotherapists.

Master of Science in Radiology

Rogelio H. Avila, Panama, Republic
of Panama

M.D. '49, Georgetown University. Major: Radiology. Minor: Pathology. Thesis: Psoriatic Arthritis—A Roentgenologic Study.

Hugh Jones Williams, London, Ontario,
Canada

M.D. '50, University of Western Ontario. Major: Radiology. Minor: Surgical Pathology. Thesis: Vertebral Epiphysitis—A Correlation of the Clinical and Roentgenological Findings.

Master of Science in Surgery

Daniel Alexander Gillis, Halifax,
Nova Scotia, Canada

B.S. '48, St. Francis Xavier University (Nova Scotia); M.D., C.M. '53, Dalhousie University (Canada). Major: Surgery. Minor: Pathology. Thesis: Pre-Invasive Intraduct Carcinoma of the Breast.

William Stewart Lyons, Washington,
D.C.

B.A. '48, M.D. '51, George Washington University. Major: Surgery. Minor: Pathology. Thesis: The Surgical Healing Qualities of the Atrioventricular Leaflets—An Experimental Study in the Dog.

Ruben Oropeza Martinez, Mexico,
D.F.

B.S. '48, M.D. '55, University of Mexico. Major: Surgery. Minor: Pathology. Thesis: The Antifibrillatory Effect of Quinidine Tested by Closed Chest Coronary Occlusion in the Pig Including Electrocardiographic Studies.

Joao RF Penido, Rio de Janeiro,
Brazil

M.D. '46, University of Brazil. Major: Surgery. Minor: Pathology. Thesis: Studies on Arterial Blood Oxygen During Whole Body Perfusion in the Experimental Animal.

Master of Social Work

Marion Elizabeth Burnett, Sparta,
Wis.

B.A. '30, University of Wisconsin. Field of Concentration: Social Work.

Lawrence Clark Shulman, Philadel-
phia, Pa.

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

Ruth Mattie Rockne Weber, Minne-
apolis

B.S. '41, Winona State Teachers College. Field of Concentration: Social Work.

Certificate of Specialist in Education (School Psychological Services)

Harvey Francis Clarizio, St. Paul

B.A. '56, College of St. Thomas; M.A. '58, University of Minnesota. Field of Concentration: School Psychological Services.

Doctor of Philosophy

Gertrude Joanne Amspoker, Eugene,
Ore.

B.A. '42, Reed College; M.A. '46, Radcliffe College. Major: History. Minor: Political Science. Thesis: The Development of Procedure in the House of Commons in the Early Stuart Period (1603-1629). Major Adviser: Prof. D. H. Willson.

Clifford Bennett Anderson, Sioux
Falls, S.D.

B.A. '52, Augustana College (Sioux Falls); M.A. '55, University of South Dakota. Major: History. Minor: Economics. Thesis: Parliament and Foreign Affairs, 1604-1629. Major Adviser: Prof. D. H. Willson.

ElSayed Mahmoud Badawy, Alexandria, Egypt

B.Sc. '51, M.Sc. '54, University of Alexandria. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Investigation of Deflection and Stress Distribution in Corrugated Diaphragms. Major Adviser: Prof. J. J. Ryan.

Irving Henry Balow, Wabasha

B.S. '51, M.A. '57, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Relationship of Lateral Dominance Characteristics to Reading Achievement in the First Grade. Major Adviser: Prof. G. L. Bond.

Donald Hugh Blocher, Minneapolis

B.A. '49, M.A. '54, Ball State Teachers College. Major: Educational Psychology. Minor: Psychology. Thesis: A Study of the Relationships between Self Descriptions and Stereotypes of Occupations with High and Low Claimed Interests. Major Advisers: Profs. C. G. Wrenn and W. E. Dugan.

Joseph Boskin, Brooklyn, N.Y.

B.S. '51, State University of New York; M.A. '52, New York University. Major: History. Minor: Political Science. Thesis: Politics of an Opposition Party: The Republican Party in the New Deal Period, 1936-1940. Major Adviser: Prof. C. A. Chambers.

Chai Moo Cho, Suwon, Korea

B.S. '53, Seoul National University; M.S. '57, University of Minnesota. Major: Soils. Minor: Physical Chemistry. Thesis: Effect of pH Upon the Charge of Clays and Cationic Distribution Around Clay Particles. Major Adviser: Prof. J. M. MacGregor.

Verne Edward Comstock, Clear Lake, Wash.

B.S. with honors '41, M.S. '47, State College of Washington. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Variation, Association, and Heritability of Several Morphological and Seed Characteristics in F_2 and F_3 Populations of Two Flax Crosses. Major Advisers: Profs. J. W. Lambert and J. C. Sentz.

John Quentin Cook, Hot Springs, S.D.

B.A. *summa cum laude* '52, Hamline University; M.A. '53, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Image of Russia in Western European Thought in the Seventeenth Century. Major Adviser: Prof. J. B. Wolf.

Joseph Andre Coste, Nant, France

Graduate '55, University of Toulouse (France). Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Tubular Reactor Studies: Sensitivity and Diffusion. Major Adviser: Prof. N. R. Amundson.

Ollie Roddy Eylar, Jr., Minneapolis

B.A. '52, M.S. '55, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Studies on the Berry-Dedrick Transformation Performed in Cultures of Rabbit Cells *in vitro*. Major Adviser: Dr. J. T. Syverton.

Lawrence James Garfield, Minneapolis

B.S. with distinction '54, University of Minnesota. Major: Physical Chemistry. Minor: Chemistry. Thesis: The Approximate Calculation of the Energy Levels of Linear Molecules. Major Adviser: Prof. W. N. Lipscomb.

Richard M. Gollin, Rochester, N.Y.

B.A. '49, Queens College (New York); M.A. '51, University of Minnesota. Major: English. Minor: History. Thesis: Arthur Hugh Clough's Formative Years: 1819-1841. Major Adviser: Prof. G. R. Stange.

William Harrison Halewood, Minneapolis

B.A. '53, University of Wichita; M.A. '55, University of Minnesota. Major: English. Minor: Art. Thesis: The Uses of the Term "Baroque" in Modern English Literary Criticism. Major Adviser: Prof. S. H. Monk.

Charles Franklin Hammer, Fremont, Ohio

B.A. '55, Bowling Green State University. Major: Organic Chemistry. Minor: Chemistry. Thesis: Mixed Indole Dimers: Synthesis and a Novel Rearrangement Involving Some of Their Derivatives. Major Adviser: Prof. W. E. Noland.

Melvin Wesley Hanna, Van Nuys, Calif.

B.S. '54, University of California (Los Angeles). Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Some Reactions of 1,2-Disubstituted Benzocyclobutene Derivatives. Major Adviser: Prof. S. W. Fenton.

David Henry Hartzog, Pullman,
Wash.

B.S. '40, Oregon State College; M.S. '51, State College of Washington. Major: Education. Minor: Agricultural Education. Thesis: A Study of the Effect of Farmer Opinion on Course Content in Farm Mechanics. Major Adviser: Prof. M. J. Peterson.

Richard Allison Herrett, Mountain-
side, N.J.

B.S. '54, Rutgers University; M.S. '56, University of Minnesota. Major: Agricultural Botany. Minor: Organic Chemistry. Thesis: Studies on the Absorption, Translocation, and Metabolism of 3-amino-1,2,4-triazole in Perennial Plants. Major Advisers: Profs. J. B. Rowell and A. J. Linck.

Edward William Humphrey, Minne-
apolis

B.A. *magna cum laude* '48, M.D. '52, University of Minnesota. Major: Physiology. Minor: Physiological Chemistry. Thesis: Potassium Flux in the Isolated, Perfused Rabbit Heart. Major Adviser: Prof. J. A. Johnson.

Roy Ragnar Johnson, Amery, Wis.

B.E.E. '54, M.S. in E.E. '56, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Study of the Cause of Flicker Noise in Oxide Coated Cathodes. Major Adviser: Prof. Aldert van der Ziel.

Loyal Wilson Joos, Alma Center, Wis.

B.S. '41, University of Wisconsin; M.S. '57, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Measurement of Personnel Differences Between Self-Selected Groups of Adult Farmers in Farm Management and Adult Education. Major Adviser: Prof. G. I. Swanson.

John Seedoff Kendall, St. Peter

B.A. *cum laude* '49, Gustavus Adolphus College; M.A. '51, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Concept of the Minister—A Study of Certain Relationships Between Occupational Stereotype, Self Concept, and Selected Variables. Major Adviser: Prof. C. G. Wrenn.

Paul Harold Kohler, Brookings, S.D.

B.S. '49, M.S. '50, South Dakota State College of Agriculture and Mechanic Arts. Major: Animal Husbandry. Minor: Entomology. Thesis: *In vivo* Testing of Chemicals for Control of Cattle Grubs. Major Adviser: Prof. A. L. Harvey.

Huan Pao Kuang, Wurun, China

B.A. '41, National Central University (China); M.A. '50, University of Minnesota. Major: Statistics. Minor: Educational Psychology. Thesis: The Theory of the Metric Function and its Application. Major Adviser: Prof. P. O. Johnson.

John Newton McCall, Charlotte,
N.C.

B.A. '50, University of North Carolina; M.A. '51, Columbia University. Major: Psychology. Minor: Educational Psychology. Thesis: An Experimental Study of the Relationships Between Interest and Ability. Major Adviser: Prof. W. L. Layton.

Arthur Kendall Nelson, Washburn,
Wis.

B.S. (Chem.) '54, University of Wisconsin. Major: Inorganic Chemistry. Minor: Chemistry. Thesis: Refractometric Observations of Aqueous Solutions of Metal Complexes. Major Adviser: Prof. R. C. Brasted.

Harland Stanley Nelson, Barnesville

B.A. *summa cum laude* '49, Concordia College; M.A. '51, State College of Washington. Major: English. Minor: History. Thesis: Evangelicalism in the Novels of Charles Dickens. Major Adviser: Prof. G. R. Stange.

Charles Clary Onion, Baltimore, Md.

B.S. '36, University of Minnesota; M.A. '48, University of Colorado. Major: History. Minor: Music. Thesis: The Social Status of Musicians in Seventeenth Century France. Major Adviser: Prof. J. B. Wolf.

Rudolph Louis Pipa, East Canaan,
Conn.

B.S. '52, Teachers College of Connecticut; M.S. '55, University of Connecticut. Major: Entomology. Minor: Botany. Thesis: The Gross Anatomy and Histology of the Thoracic Nervous System of the Adult American Cockroach, *Periplaneta americana* (L.). Major Adviser: Prof. E. F. Cook.

Malempati Madhusudana Rao, India

B.A. '49, Andhra University; M.A. '52, M.Sc. '55, University of Madras. Major: Statistics. Minor: Mathematics. Thesis: Properties of Maximum Likelihood Estimators in Non-Stable Stochastic Difference Equations. Major Advisers: Profs. Leonid Hurwicz and I. R. Savage.

Josina van der Maas Reddy, Gouda,
Netherlands

B.A. '55, Vassar College. Major: Physical Chemistry. Minor: Mathematics. Thesis: The Crystal and Molecular Structure of $B_{10}H_{12}(CNCH_3)_2$. Major Adviser: Prof. W. N. Lipscomb.

Diedrich Reimer, Crookston

B.S.A. '50, University of Manitoba; M.S. '55, University of Minnesota. Major: Animal Husbandry. Minors: Zoology and Statistics. Thesis: Genetic Correlations Between Growth Rate and Efficiency of Feed Utilization in Swine. Major Adviser: Prof. R. E. Comstock.

Glenn Arthur Sather, Franklin

B.Chem.E. with distinction '52, B.B.A. '52, University of Minnesota. Major: Chemical Engineering. Minor: Organic Chemistry. Thesis: Extractive Reaction — I. Batch Kinetics of a Homogeneous Alcoholysis Reaction; II. Two-Phase Alcoholysis Reaction in a Continuous Stirred Tank Reactor. Major Advisers: Profs. E. L. Piret and A. J. Madden, Jr.

David Edward Schafer, New York,
N.Y.

B.A. '48, Friends University. Major: Physiology. Minor: Physics. Thesis: Studies on Convection and Diffusion Through Membranes. Major Adviser: Prof. J. A. Johnson.

Richard Arthur Schwartzbeck, Whitefish Bay, Wis.

B.S. '54, M.S. '55, University of Wisconsin. Major: Soils. Minor: Botany. Thesis: Studies on Fertilizer Nitrogen and Its Loss to the Atmosphere. Major Adviser: Prof. J. M. MacGregor.

Padmanabha Subramanyam, Madras,
India

B.V.Sc. '53, University of Madras; M.S. '57, University of Minnesota. Major: Veterinary Bacteriology. Minor: Pathology. Thesis: The Isolation and Characterization of Two Isolates of a Previously Unrecognized Enterovirus of Chickens. Major Adviser: Prof. B. S. Pomeroy.

Dale Elthon Varberg, Fertile, Iowa

B.A. *magna cum laude* '54, M.A. '57, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Some Radon-Nikodym Derivatives Associated With Stochastic Processes. Major Adviser: Prof. R. H. Cameron.

William David Wolking, Minneapolis

B.A. '50, Macalester College; M.A. '54, University of Minnesota. Major: Child Welfare. Minor: Psychology. Thesis: Patterns of Social Perception Within the Families of Well-Adjusted and Maladjusted Adolescents. Major Adviser: Prof. J. E. Anderson.

Doctor of Philosophy in Urology

Julian Samuel Ansell, Seattle, Wash.

B.A. '46, Bowdoin College; M.D. '51, Tufts College. Major: Urology. Minor: Physiology. Thesis: A Comparison of Naturally Occurring Rubidium and Radioactive Potassium as Parameters of Total Body Potassium Stores. Major Adviser: Dr. C. D. Creevy.

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
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

July, 1959

- 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 on the Terrace of the Coffman Memorial Union. In case of rain the Main Ballroom will be used.
- Those in the receiving line will be Dean E. W. Ziebarth and Mrs. Ziebarth, Mr. Pierre Meyer, President of the Coffman Union Board of Governors, and Miss Suanne Bergan, Chairman of the Interim Credentials Committee 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.
- All guests are urged to register at the appropriate tables. The signed pages will be bound and preserved by the class of 1959.
- 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

August Commencement

1959

NORTHROP MEMORIAL AUDITORIUM
THURSDAY EVENING, AUGUST 20
AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. Laurence R. Lunden, Secretary

Mr. Clarence E. Larson, Assistant Secretary

Mr. E. C. Jackson, Treasurer

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

The Honorable George W. Lawson, St. Paul
Second Vice President

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

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

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, M.D., Rochester

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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 the 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 eighth 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 146,000 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 26,000 students on its Minneapolis, St. Paul, and Duluth 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 three 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 Twin City Area Educational Television Station KTCA-TV, 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 contribu-

tions have made it possible for the University to build the Masonic Memorial Hospital and are making it possible to construct Diehl Hall (which will house the biological-medical library and additional medical research facilities) and the Veterans of Foreign Wars Cancer Research Center.

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 for the two years, 1959-60 and 1960-61.

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 1957-58 showed that the University received \$78,192,595.44 and spent \$78,196,960.26. This includes a total of \$13,137,045.97 received from student tuition and fees, hospital and other department receipts; \$1,412,790.67 from intercollegiate athletics; \$12,698,158.03 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 \$14,227,127.38 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, as well as from the Permanent University Fund derived from land set aside by the Federal Government, and the occupational tax on iron ore. Also, \$2,439,375.73 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$78,192,595.44 which the University received for 1957-58, \$34,278,097.66 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: 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. Candidates for degrees will enter the Auditorium in procession.

ORGAN RECITAL: From 7:30 to 8:00 p.m., Mr. Richard Westenburg, M.A., Instructor in Music at Montana State University, will play:

<i>Now Thank We All Our God</i>	- - - - -	J. S. Bach
<i>Arioso</i>	- - - - -	J. S. Bach
<i>Toccatà and Fugue in D Minor</i>	- - - - -	J. S. Bach
<i>Scherzo</i>	- - - - -	Vierne
<i>Petites Litanies de Jesus</i>	- - - - -	Grovez

PROCESSIONAL:

<i>Trumpet Tune</i>	- - - - -	Purcell
<i>Psalm XIX</i>	- - - - -	Marcello

ON THE STAGE: As candidates for degrees enter the Auditorium at 8:00 p.m., the curtain will be opened. Seated on the platform, left to right, are: Associate Professor W. Donald Beatty, Ph.D., College of Science, Literature, and the Arts, Marshal; Professor Andrew Hustrulid, Ph.D., Institute of Agriculture, Marshal; Mr. Romine E. Matthews, M.A., Assistant to the Recorder; Assistant Dean Russell M. Cooper, Ph.D., College of Science, Literature, and the Arts; Dean Robert B. Howard, M.D., College of Medical Sciences; Colonel Robert O. Bowen, USMC, Professor of Naval Science; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Dean Harold Macy, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Vice President Laurence R. Lunden, LL.D., Business Administration; Dean E. W. Ziebarth, Ph.D., Summer Session; Mr. Frederick L. Deming, Ph.D., President of the Federal Reserve Bank of Minneapolis, Commencement Speaker; Vice President Malcolm M. Willey, Ph.D., Academic Administration; The Reverend James Boren, B.D., Adviser to Presbyterian students and staff members on the Minneapolis Campus of the University; Dean Theodore C. Blegen, Ph.D., Graduate School; Dean Horace T. Morse, Ph.D., General College; Associate Dean Frank Verbrugge, Ph.D., Institute of Technology; Assistant Dean of Students Martin L. Snoke, Ph.D.; Associate Dean Marcia Edwards, Ph.D., College of Education; Colonel Roy K. Kauffman, USA, Professor of Military Science and Tactics; Assistant Dean Richard Joseph FitzGerald, LL.B., Law School; Colonel Arthur W. Dern, USAF, Professor

Order of Events

of Air Science; Associate Professor Arnold Fleming Caswell, Ed.D., Music; Associate Professor Theodore W. Clymer, Ph.D., College of Education, 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 Associate 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 James Boren.

SPEAKING FOR THE UNIVERSITY: Vice President Malcolm M. Willey.

COMMENCEMENT ADDRESS: Dr. Frederick L. Deming, President of the Federal Reserve Bank of Minneapolis, "The Challenge of Economic Growth."

CONFERRING OF ROTC CERTIFICATES: Dean Ziebarth will introduce Colonel Kauffman, Colonel Bowen, and Colonel Dem, who will present the candidates for commissions in their respective branches of the Armed Services. Certificates of ROTC Completion will be presented by Vice President Willey.

PRESENTATION OF CANDIDATES: Dean Ziebarth will introduce the deans of the several colleges or their representatives who will present to Vice President Willey the candidates for certificates and degrees. They are, in order of their introduction: Dean Morse for the General College; Assistant Dean Cooper for the College of Science, Literature, and the Arts; Associate Dean Verbrugge for the Institute of Technology; Dean Macy for the College

Order of Events

of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Edwards for the College of Education; Dean Kozelka for the School of Business Administration; Assistant Dean FitzGerald for the Law School; Dean Howard for the College of Medical Sciences; Dean Blegen for the Graduate School.

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

PRESENTATION OF DIPLOMAS: With Assistant Dean Snoko 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 Dean Blegen to Vice President Willey, who will confer the degrees.

HAIL! MINNESOTA, the University's Alma Mater song. The audience and Associate 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.

RECESSIONAL: Mr. Westenburg, organist.

Fantasy and Fugue in G Minor - - - - - J. S. Bach

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 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 AND TACTICS

Second Lieutenant, Artillery

John B. Mason, Des Moines, Iowa

James A. Van Valkenburg, Minneapolis

Second Lieutenant, Infantry

Burl A. Zorn, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Lennart C. Lekstrom, Ironton

Ensign, USNR

Thomas J. Laska, Wabasha

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Robert W. Ryan, Minneapolis

Robert L. Taus, Crookston

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

Robert Henry Anderson, Minneapolis
Calvert Clyde Arbogast, Minneapolis
Arturs M. Blauzda, Minneapolis
Calvin Allen Dinham, Edina

Richard Wenzel Falvey, St. Paul
Terrance Michael Kelly, Minneapolis
William Paul Konopatzki, St. Paul
Patricia Diane Meder, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Dale T. Hagfors, Minneapolis
Madeline Margaret Hinds, Minneapolis

Harry Jules Sundberg, Minneapolis

Bachelor of Arts

Alan Carl Allison, Minneapolis, MAGNA CUM LAUDE

John David Anderson, Robbinsdale
Maynard Charles Anderson, Minneapolis

Thomas George Anderson, Minneapolis

Peggy Edna Anhalt, South St. Paul
Sylvan Parker Auran, Alexandria

Ronald Laurence Barrie, Minneapolis
Carl John Baumgartner, Jr., Minneapolis

Kathryn Johnson Bly, A.A., Jamestown, N.Y.

Robert Lawrence Boyle, St. Paul
Patricia Rose Brase, Minneapolis

Robert Joseph Brown, St. Paul
Francis Joseph Bruckbauer, Minneapolis

Yvonne Fleckenstein Burford, Fairbault

David Blackman Calvit, Minneapolis
Clifford Alexander Carlson, International Falls, CUM LAUDE

Robert A. Cron, A.A., Minneapolis
Aliniece Campbell Crosby, A.A., Minneapolis

Elizabeth Alice Cuninghame, St. Paul
Paul Joseph Deegan, Mankato

Richard De Long, Herman
Patricia Ann Devoy, Minneapolis

Robert Eugene Du Bois, Minneapolis
M. Claire Willmott Dunn, Minneapolis

Joan Suzanne Eastman, St. Paul, CUM LAUDE

James Edward Edlund, St. Paul
Richard Frank Edwards, Minneapolis
Marna Dot Englehorn, Minneapolis, CUM LAUDE

Bruce Russell Erickson, Minneapolis
Roger Louis Froelich, Chisago City

Frances Lois Funk, Brainerd, CUM LAUDE
 Roman R. Gomez, Minneapolis
Susanne Gotlieb, St. Paul, MAGNA CUM LAUDE
 Gretchen Mary Graus, Hastings
 Jay Duffus Hanson, Pipestone
 William Robert Hollom, Minneapolis
 Gene Merle Holmberg, Minneapolis
 Gerald Dale Holmer, Minneapolis
 Robert LeRoy Hultman, Minneapolis
 John Norman Inglis, Iowa Falls, Iowa
 John Jennings Jones, Minneapolis
 Eugene Delano Jorgens, Elbow Lake
 Gloria Yvonne Katzmark, Crystal
 Bernita P. Kemp, Minneapolis
 Richard Louis Kepp, A.A., Rochester
 Elizabeth Ann Kimmel, Minneapolis
 Stanley Rogers King, Phoenix, Ariz.
 Janis Elizabeth Knudsen, Duluth
 Benno Lee Kristensen, Wheaton
 Rodney Randall Larson, Minneapolis
 Thomas Joseph Laska, Wabasha
 Lennart Carl Lekstrom, Ironton
Marian Gottlieb Linoff, A.L.A., Minneapolis, CUM LAUDE
 Richard Bruce Lysne, Minneapolis
 Meta Maneks, Minneapolis
Michael Carroll Mann, Minneapolis, SUMMA CUM LAUDE
 Dorothy Felice Mareck, Minneapolis
 John Blaine Mason, Des Moines, Iowa
 Donald James Mattheisen, Minneapolis
 Richard Irwin Mlnarik, Minneapolis
 Martin Michael Murphy, Willmar
 Karen Elaine Nelson, Minneapolis
Nicholas Ochsner, Trail City, S.D., MAGNA CUM LAUDE
 Paul Frederick Ohman, Wadena
 Stanton P. Olson, Rochester
 Martin Quigley Peterson, Anoka
 Ira Phillips, St. Paul
 Robert Joseph Polzak, St. Paul
 Jack Marlowe Provo, Minneapolis
 James Benjamin Quernemoen, Fergus Falls
 Nolen Patrick Quinn, Minneapolis
 Arnold Joseph Rising, Mankato
 Joseph Herbert Rivard, White Bear Lake
 William Davis Rowe, Hibbing
 Marcia Lea Rutchick, St. Paul
 Hans Edgar Sadlack, A.A., Sacramento, Calif.
Wayne Joel Salita, St. Paul, CUM LAUDE
John Howard Sargent, St. Paul, MAGNA CUM LAUDE
 James Nicholson Scheibe, Minneapolis
Elizabeth Mary Schissel, Adams, CUM LAUDE
 Rosemary Schmit, Minneapolis
 Patricia Joyce Seeker, Minneapolis
 John Wilfred Stassen, St. Paul
Donna Holen Stein, Minneapolis, CUM LAUDE
 Patricia Lee Stoller, Hopkins
 John Elwood Swanson, Minneapolis
 Richard Tatsumi Tachibana, Hawaii
 Leon Dewain Taylor, Robbinsdale
 James Grannis Thompson, Clark, N.J.
 Sheila Ann Tierney, Minneapolis
William Edmund Turgeon, Minneapolis, CUM LAUDE
 Sylvia Ruth Turner, Minneapolis
 Lawrence Vizenor, Minneapolis
 Harry Osborn Weber, Rochester
 Marie Eells Weis, Rush City
 William Wellisch, A.L.A., Minneapolis
Lois Segal Wert, Minneapolis, CUM LAUDE
 Josephine Pearl White Eagle, Minneapolis
 Elizabeth Ann Willar, St. Paul
 Russell Maynard Winge, Minneapolis
 Jerome Clarence Winters, South St. Paul
John Allen Winters, Fridley, CUM LAUDE
 Richard Wilbert Wright, A.A., Rochester
 Burl Allen J. Zorn, St. Louis Park

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Charles Ernest Bullock, Lengby,
WITH HIGH DISTINCTION

Robert Wilmar Carlson, Minneapolis

Bachelor of Aeronautical Engineering

Robert Claud Hiller, Two Harbors
James Albert Menke, Jordan

James Joseph Olsen, St. Paul
Donald Lester Wheatcraft, Aitkin

Bachelor of Agricultural Engineering

James Robert Guyeaux, Salol, WITH DISTINCTION

Bachelor of Chemical Engineering

Charles Franklin Burns, St. Paul
Gary William Kobilka, St. Paul

James Vincent Padrnos, Minneapolis

Bachelor of Chemistry

Joseph John Rahm, Foley

Bachelor of Civil Engineering

Daniel James Dunford, St. Paul

Bachelor of Electrical Engineering

William Walter Chorske, Minneapolis
Leonard Gordon Clough, McGregor
Robert Branson Gustafson, Akeley
Jay Roy Hamann, B.S., Lake Park,
Iowa

Roger Allen Kemp, Minneapolis
Bernard Norris Svendsen, Minneapo-
lis, WITH DISTINCTION

Bachelor of Mechanical Engineering

Charles Lampe Amundsen, Minne-
apolis
Rodney Hugh Anderson, Calumet
Donald D. Brockschmidt, La
Grange, Ill., WITH DISTINCTION
John Kenneth Dalland, Minneapolis
Wallace Rodney Danson, Grand
Rapids
Thomas Lew Eddy, Howard Lake
Dale Strite Flemming, Minneapolis

Kenneth Marshall Fransen, Minne-
apolis
Terrence Edward McFadden, St. Paul
Roger Alan Nyberg, Minneapolis
Robert Jerry Prachar, Hugo, WITH
HIGH DISTINCTION
Theodore Travica, Bovey
Wendel Owen Wallin, Comfrey
John Robert Wiggins, Berwyn, Ill.

Bachelor of Metallurgy

William Thomas Whitfield, Jr., Minneapolis

Bachelor of Mining Engineering

James William Germundson, Minneapolis

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

Bachelor of Science

Roberta Louise Biggin, Minneapolis,
Home Economics

Nona Jean Johnson Carlson, Red
Wing, Home Economics

Clyde Roger Cottrell, Sturgeon Lake,
Agriculture

Judy Kamins Goldstein, Minneapolis,
Home Economics, WITH DISTINC-
TION

Mary Sue Kropp, St. Cloud, Home
Economics

Wilbert Arthur Mackey, Barnum,
Agriculture

George Francis Menzel, Decatur,
Ill., Forestry

Dale Allyn Rettmann, Buffalo Lake,
Forestry

Carolyn Mae Lund Stivers, White
Bear Lake, Home Economics

Sonja Jerene Thorpe, Canby, Home
Economics

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

Bachelor of Science

Donna Hendrickson Barnes, St. Paul,
Home Economics Education

Marilyn Gail Reed, Superior, Wis.,
Home Economics Education

Harvey Duane Steven, Mapleton, Ag-
ricultural Education

COLLEGE OF EDUCATION

Bachelor of Science

- Janet Simon Aelony, B.A., Minneapolis
Margaret Louise Anderson, Minot, N.D., WITH HIGH DISTINCTION
Albert John Barenthin, Wheatland, Iowa
John Bernell Bastolich, Minneapolis, WITH HIGH DISTINCTION
John Denham Birong, New Brighton
Violet Adeline Brenden, Minneapolis
Charles Joseph Burbach, B.A., St. Paul
William Kenneth Campbell, Anoka
Carol Jollene Carlson, Madison
Thelma Dehn, Minneapolis
Cordelia June Draves, Minneapolis, WITH DISTINCTION
Wayne Thomas Fix, Aberdeen, S.D.
Robert Allen Fleagle, Minneapolis
Eugene Roy Frank Flug, B.B.A., Minneapolis
Luther Ozmun Fossum, Minneapolis
Vernon Wilbur Fredeen, Cambridge, WITH DISTINCTION
Gail Drury Fuad, B.A., Minneapolis
Gary Lee Garlough, Calumet
Joy Mickle Gaylord, Richfield
Helen Leona Gibbon, Milnor, N.D.
Philip Lyman Gustafson, Minneapolis
Peggy Susan Heimberger, Rolla, Mo., WITH DISTINCTION*
Carol May Anderson Houck, Menomonie, Wis.
Patricia Augusta Huber, R.N., Freeport, Ill.*
Roger Nelson Jahns, Racine
Ronald Saul Kaiser, Minneapolis
Elsie G. Kleimola, Wakefield, Mich.
Donald Paul Kohns, Cherokee, Iowa, WITH DISTINCTION
Robert George Kotz, B.B.A., Isle
Marilyn J. Suess Kutish, B.A., Minneapolis
- Louise Mae Reese L'Allier, Forest Lake
Robert Eugene Larson, Minneapolis, WITH HIGH DISTINCTION
Alma Maybelle Logdahl, Northome, WITH DISTINCTION
Priscilla Ann Mason, St. Paul, WITH DISTINCTION
Lowell Ardeen McMillen, Excelsior
Marian A. Murphy, St. Cloud*
Harry Gerald Nelson, St. Paul
Ruth Lower O'Connell, Minneapolis
Goldie Johnson Olson, Minneapolis
Janice Elaine Podany, Minneapolis
Mary Catherine O'Connell Pomije, New Prague
Emily F. Nelson Reid, Minneapolis
Ardis B. Remquist, Cokato
Allan Edward Rotman, Minneapolis
Raymond Leo Ryan, Rochester
Gwynethe Nancy Thompson Stauffer, Fargo, N.D., WITH HIGH DISTINCTION
Laurence Kramer Strauss, Bakersfield, Calif.
LaVonne Ione Bjork Sunness, Dodge Center
Paul Jevne Tatting, Columbia Heights
Homa Alvin Tindall, Jr., Brainerd
Sharlene Toback, Duluth
Lawrence Francis Tradup, Faribault
James D. Upton, A.A., Eagle Bend
Eileen Naomi Vavrina, East Grand Forks
Ellen Vavrina, East Grand Forks
Dale Leo Virnig, A.A., Minneapolis
Shirlee Elizabeth Weese, Anoka
Robert Harry Willett, Rock Falls, Ill.
Marjorie Ruth Wilson, A.A., Houston, Tex.*
Shirley Helen Edelston Zaverl, B.A., Duluth

*Nursing Education Curriculum

Master of Education

- Deidre Ann Brossard, B.S., Minneapolis
Betty Leach Brown, B.S., Excelsior
Walter Joseph Conway, B.S., Minneapolis
Helen Lucile Halstead, B.S., Hutchinson, Kan.
Josephine Helstern Harvey, B.A., Galena, Ill.
Eldean Marie Klecker, B.S., Olivia
Bernell Lilla, B.S., Winona
Bruce Glenn Lunkley, B.S., Minneapolis
Gladys Christine Lyng, B.S., B.A., Minneapolis
Jessie Pansy Nigh, B.S., Norman, Okla.
- Barbara Klug Redman, B.S., Brookings, S.D.
Florence Rosemarie Ruhland, B.S., St. Cloud
Jerome Edward Schroeder, B.S., Minneapolis
Henry James Smart, B.A., Sault Ste. Marie, Mich.
Barbara Lee Smith, B.S., Hope, Kan.
Ardis Ruth Swanson, B.S., Salem, S.D.
Nancy Ellen Twedt, B.S., Minneapolis
Marilyn Jean Welch, B.A., Chilli-cothe, Ill.
Stanley Morse Whittemore, B.S., Austin

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

- Donald Joseph Aronsohn, Minneapolis
Harold Henry Beach, St. Paul
Richard Wesley Carlson, Minneapolis
Gordon Louis Davis, B.A., B.S.L., Minneapolis
Alvord Julian Ellingboe, Jr., Paynesville
Robert Bruce Frazer, Minneapolis
James Robert Guyaux, *Salol*, WITH DISTINCTION
Bruce Lee Hankerson, Owatonna
Edward Lynas Hite, St. Paul
Theodore David Horwitz, Duluth
Donald Lee Knutson, *Minneapolis*, WITH DISTINCTION
Richard Donald Langer, Faribault
David Charles Larson, Minneapolis
- Harold Albert Lindeke, Jr., Eau Claire, Wis.*, WITH DISTINCTION
James Arthur McClure, Luverne
Harold Leroy Metz, St. Paul
Laird Alden Mork, Mora
John Edward Mosher, Owatonna
Frank Mitsuru Mukai, Honolulu, Hawaii
Donald Weldon Murk, Battle Lake
Rollen James Nelson, Minneapolis
Frank Michael Nofsinger, Rochester
Kenneth James Norman, *Mankato*, WITH DISTINCTION
Curtis Lee Peterson, Henning
Wesley Gene Rude, Granite Falls
Gerald Henry Schreiber, Faribault
William Thomas Waldron, Spring Valley
John David Walz, Minneapolis
Robert Gordon Wright, Fergus Falls

Bachelor of Science in Business

Joseph Kenneth Beaupre, East Grand
Forks
Ronald Charles Breckner, Hastings
James Andrew Fitzgerald, St. Louis
Park
William Joseph O'Meara, Faribault

James Roscoe Petersdorf, Austin
Merrilyn Bernice Steiner, Minne-
apolis, WITH DISTINCTION
James Stewart VanValkenburg,
Minneapolis

Bachelor of Science in Economics

Otto Victor Byhre, Minneapolis
James Joseph McKeen, Jackson
Heights, Long Island, N.Y.

John Nils Osterberg, Minneapolis

LAW SCHOOL

Bachelor of Laws

Bertin Allen Bisbee, Jr., B.A.,
Marshall
Richard John Boyce, B.A., Nevada,
Iowa
Andrew Peter Engebretson, B.A.
cum laude, Lowry

James Richard Gaffey, B.S.L.,
Alden
Richard Arthur Gullickson, B.S.L.,
Eau Claire, Wis.
Ronald Otto Winston Ylitalo, B.S.L.,
Floodwood

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing*

Sandra Jeanne Blatti, Kasson
Georgiana Marie Christman, St. Louis
Park, WITH DISTINCTION
Carol Ann Edwardson, Hibbing
Mary Joyce Garlid, Monticello, WITH
DISTINCTION
Mary Louise Gustafson, Duluth
Elizabeth Margaret Hay, Duluth
Meredithe Morken Hedenstrom,
Crookston
Nancy Jo Irvin, Shelby, Mont.
Marion Blair Jarpe, Minneapolis,
WITH DISTINCTION
Joan Tingum Jones, Minneapolis

Christine McAllister Kellogg, St. Paul
Carol Jean Knoll, St. Paul
Beverly Helen Kutzke, Pine City,
WITH DISTINCTION
Corrine Elizabeth Larson, Decorah,
Iowa
Marguerite Lucy Murphy, Grand
Rapids, WITH HIGH DISTINCTION
Beverly Jean Oberg, Hibbing, WITH
DISTINCTION
Sarah Elizabeth Parsons, Pierre, S.D.,
WITH DISTINCTION
Claire Suzanne Ringle, Walker,
WITH DISTINCTION

* These degrees are conferred subject to the satisfactory completion of nursing practice prior to December 17, 1959.

Dorothy Kathryn Roemer, Winona
Karen Jean Schmidt, Harvey, N.D.,
WITH DISTINCTION
Evangeline Grace Windahl, Minne-
apolis, WITH DISTINCTION

Gladys Marie Wohlin, New London,
WITH DISTINCTION
Mardi Jeanne Zahrendt, Minneapolis,
WITH HIGH DISTINCTION

Bachelor of Science in Nursing Administration

Anne Marie Maher, R.N., A.A.,
Beardsley

Doris May Mills, R.N., Chicago, Ill.,
WITH DISTINCTION

Bachelor of Science

Barbara Ann Clemence, West Acton,
Mass., Public Health Nursing,
WITH DISTINCTION

Alice Joan Dillon, R.N., DePere,
Wis., Public Health Nursing

Mary Elizabeth Godard, Winnipeg,
Manitoba, Canada, Public Health
Nursing, WITH DISTINCTION

John Bernard Leary, B.A., St. Paul,
Medicine

James Erling Runquist, Austin,
Medicine

Ellen Mae Scheel, Wausau, Wis.,
Public Health Nursing

Edward Vincent Staab, Minneapolis,
Medicine

Adrienne P. Weisbrod, Wausau, Wis.,
Public Health Nursing

Virginia MacKay Williams, R.N.,
Des Moines, Iowa

Master of Nursing Administration

Joan Louise Brinkman, B.S., New
Richmond, Wis.

Henrietta Mae Carlson, B.S.,
Beach, N.D.

Anna VanderPlaats Gullord, B.S.,
Bejou

Ruth Leota Hass, B.S., Minneapolis

Virginia Reeves Jarratt, B.S.,
Timpson, Tex.

Mary Ann Priscilla McIntyre, B.S.,
Pittsburgh, Pa.

Jean Marie Olsen, B.S., St. Paul

Muriel Joan Opal, B.S., Wausau,
Wis.

Virginia Lucille Paulsen, B.S.N.,
St. Cloud

Dorothy Sharpe, B.S., Park River,
N.D.

Audrey Edythe Windemuth, B.S.,
Minneapolis

Master of Public Health

Marjorie Ann Heiges, B.A., Minneapolis

Doctor of Medicine

Toshio Akamatsu, B.A., St. Paul

GRADUATE SCHOOL

Master of Arts

Agnes Olivia Aarseth, Minneapolis

B.S. '40, St. Cloud State Teachers College.
Field of Concentration: Curriculum and Instruction.

Curtis Alan Anderson, Hopkins

B.S. '52, St. Cloud State Teachers College.
Field of Concentration: Curriculum and Instruction.

James Gill Anderson, Bismarck, N.D.

B.S. '52, Valley City State Teachers College.
Field of Concentration: Education.

Janet Ann Anderson, Minneapolis

B.A. *summa cum laude* '54, Augsburg College. Field of Concentration: Educational Psychology.

Robert Duane Anhorn, Faribault

B.A. '52, Carleton College; B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Elizabeth Berman Appelbaum, St. Paul

B.A. *magna cum laude* '58, University of Minnesota. Field of Concentration: Mathematics.

Richard Arthur Arnold, Waukesha, Wis.

B.A. '53, Wisconsin State College (White-water). Field of Concentration: Curriculum and Instruction.

Marjorie Lillian Austin, Duluth

B.S. *cum laude* '42, College of St. Scholastica. Field of Concentration: Curriculum and Instruction.

John Clarence Baader, Minneapolis

B.B.A. '39, University of Minnesota. Field of Concentration: Spanish.

James Howard Bacon, Rochester

B.A. '47, St. Paul Seminary. Field of Concentration: Library Science.

Esther Constance Balcom, Marshall

B.A. *magna cum laude* '55, Augustana College (South Dakota). Field of Concentration: Library Science.

Margaret Felts Belooof, Kalamazoo, Mich.

B.Sch.Mus. '31, Oberlin College. Field of Concentration: Music Education.

David Carl Berg, Willow River

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

Robert Dwight Berglund, New Brighton

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

Joseph Robert Berini, Duluth

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

Irene Doris Biberdorf, Willow City, N.D.

B.S. in Ed. '56, Concordia Teachers College (Nebraska). Field of Concentration: Music.

Rolland Gerald Billings, Minneapolis

B.A. '58, Macalester College. Field of Concentration: Library Science.

Robert Daniel Block, Kandiyohi

B.S. '49, St. Cloud State Teachers College. Field of Concentration: Educational Administration.

John Paul Blue, St. Paul

B.A. '52, Macalester College. Field of Concentration: Speech.

John Robert Boben, Forest Lake

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

Hubert Frank Boeddeker, Minneapolis

B.A. '50, B.S. '54, University of Minnesota. Field of Concentration: Educational Psychology.

John David Bouquet, Neenah, Wis.

B.A. '58, College of Wooster. Field of Concentration: Psychology.

Donald Fred Brandenburg, Mound

B.A. '48, Gustavus Adolphus College; B.S. '50, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

William Joseph Brazill, Jr., Pittsfield, Mass.

B.A. *cum laude* '57, Williams College. Major: History. Minor: Geography. Thesis: Arnold Ruge and the Revolution of 1848.

Alois Peter Britz, West Virginia

B.S. '40, University of Minnesota. Field of Concentration: Educational Psychology.

Paul William Brown, St. Paul

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

Frank LeRoy Carlson, Brainerd

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

Wayne Clifford Carlson, Osseo

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

Jerry Kermite Cassem, Elmore

B.S. with honors '54, Mankato State Teachers College. Field of Concentration: Educational Administration.

David Charles Castren, Virginia

B.S. '55, University of Minnesota. Major: Music. Minor: Anthropology. Thesis: Philosophical and Historical Observations Concerning Chinese Musical Phenomena.

Walter Joseph Caven, St. Louis Park

B.E. '33, Mankato State Teachers College. Field of Concentration: Industrial Education.

George Edward Chandler, Preston

B.A. '49, Luther College. Field of Concentration: Curriculum and Instruction.

Omer William Connor, St. Paul

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

George Lewis Crisler, St. Paul

B.S. with distinction '55, University of Minnesota. Field of Concentration: Education.

Elmore Joseph DeGrange, New Orleans, La.

B.A. in F.A. '50, B.A. in Ed. '57, Xavier University (Louisiana). Field of Concentration: French.

Esteban de Jesus-Pizarro, Loiza, Puerto Rico

B.A. with honors '53, University of Puerto Rico. Field of Concentration: Psychology.

Robert John DeSanto, Duluth

B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Deborah Stratton Dew, Wilmington, Del.

B.A. '57, Oberlin College. Major: German. Minor: English. Thesis: The Greek Dramas of Georg Kaiser.

Paul John deWahl, LeSueur

B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Helen Marie Diemert, Buffalo, N.D.

B.A. '49, College of St. Benedict. Field of Concentration: Art Education.

Marvin Gerald Dodge, West St. Paul

B.A. '55, College of St. Thomas. Field of Concentration: English.

Virgil A. Duncer, Edina

B.A. '50, Bethel College (Minnesota); B.S. '51, University of Minnesota. Field of Concentration: Educational Administration.

Stephenie Grover Edgerton, Minneapolis

B.A. '52, University of Minnesota. Major: Philosophy. Minor: History. Thesis: Plato's Earlier Ethical Theory: An Interpretation of the Gorgias.

Mirdza Zelma Eglitis, Minneapolis

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

Ida Christine Engstrom, Minneapolis

B.A. '29, Augustana College (Illinois). Field of Concentration: Latin.

Thomas John Finstad, Starbuck

B.A. '52, St. Olaf College. Field of Concentration: Educational Psychology.

Ramon Stephen Firnstahl, St. Paul

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

Eugene Roy Frank Flug, Minneapolis

B.B.A. '49, University of Minnesota. Field of Concentration: Industrial Education.

Muriel Foley, Minot, N.D.

B.A. '45, Minot State Teachers College. Field of Concentration: Journalism.

Donovan Chester Folsom, Minneapolis

B.S. '59, University of Minnesota. Field of Concentration: Industrial Education.

Dale Ralph Fuerst, Central City, Neb.

B.A. with honors '40, Wayne State Teachers College. Field of Concentration: Curriculum and Instruction.

Jack Arnold Gilbertson, Minneapolis

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

Ronald Edmund Goedken, Savage

B.S. *cum laude* '53, St. Mary's College (Winona). Field of Concentration: Educational Administration.

Neil Carroll Gustafson, Minneapolis

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

Yoshinobu Hakutani, Hyogo Ken, Japan

Graduate '57, Hiroshima University. Field of Concentration: English.

Virginia Eloise Hans, Minneapolis

B.S. with distinction '56, University of Minnesota. Field of Concentration: English.

David Pennell Hanson, Walker

B.S. '53, Bemidji State Teachers College. Field of Concentration: Curriculum and Instruction.

Donald Berends Hanson, Minneapolis

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

Earl Edward Harris, Davenport, Iowa

B.A. '53, Iowa State Teachers College. Field of Concentration: Curriculum and Instruction.

Douglas Stanley Hed, St. Louis Park

B.S. '53, St. Cloud State Teachers College. Field of Concentration: Educational Administration.

Belvin Ingvald Heieie, Cloquet

B.A. '47, Concordia College. Field of Concentration: Educational Psychology.

Vincent Alan Heig, Slayton

B.S. with distinction '57, University of Minnesota. Field of Concentration: Botany.

Lincoln Raymond Henderson, Jr., Thief River Falls

B.A. '50, B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.

William Ellis Herber, Jr., Minneapolis

B.A. *cum laude* '57, Macalester College. Field of Concentration: Psychology.

Harold Daniel Hill, Duluth

B.S. '27, Iowa State College. Field of Concentration: Curriculum and Instruction.

James Edmund Hilsen, San Diego, Calif.

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

LaVern John Hoelscher, Albert Lea

B.A. '54, St. John's University (Minnesota). Field of Concentration: History.

John Wesley Hooker, Sioux City, Iowa

B.A. *cum laude* '53, Yankton College. Field of Concentration: Mathematics.

Robert Dean Houg, Ridgeland, Wis.

B.S. '51, Wisconsin State College (River Falls). Field of Concentration: Educational Administration.

Raymond Leroy Hussey, Minneapolis

B.S. '57, University of Missouri. Field of Concentration: Inorganic Chemistry.

Quentin Vernon Jensen, Covina, Calif.

B.S. in Ed. '51, University of North Dakota. Field of Concentration: Educational Psychology.

William Arthur Jensen, Minneapolis

B.S. '52, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Peter Jensen, Minneapolis

B.A. '58, University of Minnesota. Major: Anthropology. Minor: Geology. Thesis: The Bremer Village and Mound Sites.

- Donald LeRoy Johnson, Grove City
B.S. with distinction '56, University of Minnesota. Field of Concentration: Educational Psychology.
- Grace Hildegard Johnson, St. Peter
B.A. *magna cum laude* '57, Gustavus Adolphus College. Field of Concentration: Music.
- Herbert Frederick Johnson, St. Paul
B.A. '57, University of Minnesota. Field of Concentration: Library Science.
- June Lorraine Johnson, Minneapolis
B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Maynard Duane Johnson, Hibbing
B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Ruth Dorothy Johnson, Canton, S.D.
B.S. *cum laude* '56, Concordia College. Field of Concentration: Curriculum and Instruction.
- Wallace Gerald Johnson, Glenwood City, Wis.
B.S. '52, Wisconsin State College (Eau Claire). Field of Concentration: Educational Administration.
- Gilford Roland Johnson, Cloquet
B.S. *cum laude* '57, University of Minnesota. Field of Concentration: Library Science.
- Joanne M. Jonson, Minneapolis
B.A. '49, Macalester College. Major: Speech. Minor: Scandinavian. Thesis: A Production Thesis of Benjamin Britten's *Let's Make an Opera*.
- Sherman Henry Kantor, Minneapolis
B.A. '53, University of Minnesota. Major: Sociology. Minor: Statistics. Thesis: Social Stratification and Mental Disorders: An Analysis of the Relationship of Social Status to the Diagnosis, Treatment, and Prognosis of Mental Illness.
- Robert Arnold Karlen, Minneapolis
B.M. with honors '50, New England Conservatory of Music. Field of Concentration: Music.
- Robert Bruce Kaul, Owatonna
B.S. with distinction '57, University of Minnesota. Field of Concentration: Botany.
- Bonnie Jean Kenyon, Minneapolis
B.S. '52, University of Wisconsin. Field of Concentration: Educational Psychology.
- Joanne Pierce Kundel, Ely
B.S. in Ed. '54, University of Omaha. Field of Concentration: Curriculum and Instruction.
- Stewart Sedgwick Lane, Denver, Colo.
B.A. '57, Carleton College. Field of Concentration: English.
- Margaret Chapman Larson, Duluth
B.Ed. '39, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- John Alvin Leadholm, Osseo, Wis.
B.S. '55, River Falls State Teachers College. Field of Concentration: Physical Education.
- Russell Allen Lee, Aneta, N.D.
B.A. '42, Valley City State Teachers College. Field of Concentration: Curriculum and Instruction.
- James Grier Little, Pittsburgh, Pa.
B.S. in B.A. '56, University of Arizona. Field of Concentration: Industrial Relations.
- Elmer Regnander Lundgren, Minneapolis
B.S. '50, University of Minnesota. Field of Concentration: Educational Administration.
- Donald Gregory MacEachern, Saskatoon, Saskatchewan, Canada
B.A. with great distinction '48, B.Ed. with distinction '51, University of Saskatchewan. Field of Concentration: Statistics.
- Jack Terry Magnuson, Stillwater
B.S. '51, River Falls State Teachers College. Field of Concentration: Educational Administration.
- Cynthia Jean Mandelstam, Minneapolis
B.A. '57, Cornell University. Field of Concentration: Speech and Theater Arts.
- Barbara Kopnick Mantini, Minneapolis
B.A. *magna cum laude* '48, University of Minnesota. Field of Concentration: Spanish.
- Ralph Dixon McAlister, St. Paul
B.S. '50, University of Minnesota. Field of Concentration: Physical Education.
- Robert Thomas McMorrان, Red Wing
B.S. '55, University of Minnesota. Field of Concentration: Music Education.

Sidney Meltzer, St. Paul

B.A. with honors '56, Roosevelt University.
Field of Concentration: Educational Administration.

Joan M. Messmer, Robbinsdale

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

William Craig Metcalfe, Toronto,
Ontario, Canada

B.A. '58, University of Toronto. Major: History. Minor: Spanish. Thesis: The Parliament of 1610—A Study in the Stuart Conflict.

Howard Edward Meyers, Beaver Bay

B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Perry Arthur Middlemist, Minneapolis

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

Dale Robert Mittelstaedt, Waseca

B.S. with distinction '56, University of Minnesota. Field of Concentration: Music Education.

Franklin Dale Moore, Glenwood,
Iowa

B.A. '54, Peru State Teachers College. Field of Concentration: Educational Administration.

Eleanor Elizabeth Nordley, Minneapolis

B.S. with distinction '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Lorraine Armilda Norman, Sioux
Falls, S.D.

B.A. cum laude '46, Augustana College (South Dakota). Field of Concentration: Journalism.

Robert Evans Norman, Mt. Iron

B.S. '41, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Helmer Helarius Ogren II, Minneapolis

B.Aero.E. '43, University of Minnesota. Field of Concentration: Industrial Education.

William Charles Ohm, Oconomowoc,
Wis.

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

Robert Arden Olsen, Duluth

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

Joseph Louis Oven, Swanville

B.S. '47, University of Minnesota. Field of Concentration: Educational Administration.

Louis Patrick Pansino, Nashwauk

B.S. '52, St. Cloud State Teachers College. Field of Concentration: Educational Administration.

Gordon William Pappas, Richland,
Wash.

B.A. '47, B.S. '47, University of Minnesota. Field of Concentration: Education.

Harry Ronald Peister, Kearney, Neb.

B.F.A. in Ed. '56, Nebraska State Teachers College. Field of Concentration: Education.

Glen Elster Peterson, Sioux Falls,
S.D.

B.A. '54, Augustana College (South Dakota). Field of Concentration: Educational Administration.

Jean Cora Peterson, Minneapolis

B.A. '52, Augsburg College. Field of Concentration: Speech Pathology.

Willard Dale Philipson, Sleepy Eye

B.S. '53, University of Minnesota. Field of Concentration: Agricultural Education.

Virginia Grant Phipps, Minneapolis

B.A. '34, University of Colorado. Field of Concentration: Educational Psychology.

James B. Preus, St. Paul

B.S. '53, University of Minnesota. Field of Concentration: Psychology.

Starling Worth Price, Jr., Minneapolis

University of Denver. Field of Concentration: Political Science.

Ivadell Helen Raben, Albert Lea

B.S. '54, Mankato State College. Field of Concentration: Art Education.

Wilfred Bernard Racker, Melrose

B.S. '53, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Burleigh Keith Rapp, Duluth

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

Marybelle Riley, North Muskegon, Mich.

B.A. '55, Wheaton College. Field of Concentration: Speech.

Donald Dale Robinson, St. Croix Falls, Wis.

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

Elwin Eugene Rogers, Minneapolis

B.S. with distinction '57, University of Minnesota. Field of Concentration: German.

Adele Bernadette Ruliffson, Fargo, N.D.

B.S. in Ed. '40, Moorhead State Teachers College. Field of Concentration: Art Education.

Bartholomew Letory Sayles, Collegeville

B.A. *magna cum laude* '39, Xavier University (Louisiana). Field of Concentration: Education.

Dean Harold Schoelkopf, Minneapolis

B.A. *magna cum laude* '54, University of Minnesota. Major: Journalism. Minor: Political Science. Thesis: Minnesota Daily Newspapers in the 1958 Senatorial and Gubernatorial General Election Campaign.

Earl Arthur Schreiber, Winona

B.S. '52, Winona State Teachers College. Field of Concentration: Curriculum and Instruction.

Nadine Shanler Schwartz, Hartford, Conn.

B.S.Ed. '57, Boston State Teachers College. Field of Concentration: History and Philosophy of Education.

Flora Petersen Sedgwick, Minneapolis

B.A. '40, Wheaton College. Field of Concentration: Speech.

Jerome Benjamin Simondet, Minneapolis

B.A. *magna cum laude* '52, M.Ed. '53, College of St. Thomas; B.S. '56, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Kenneth Dorlan Skov, St. Louis Park

B.A. '50, Bethel College (Minnesota); B.S. '51, University of Minnesota. Field of Concentration: Educational Administration.

Dorothea Savage Smith, San Pedro, Calif.

B.A. '41, Hamline University. Field of Concentration: Curriculum and Instruction.

Leonard Bernhard Sobanja, Grand Marais

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

Jerome Willard Soderberg, Minneapolis

B.S. '55, University of Minnesota. Field of Concentration: Music Education.

Douglas Goldsbury Sprague, Hopkins

B.A. '55, Carleton College. Field of Concentration: Educational Psychology.

M. Donald Stadum, Red Lake

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

Bruce Nicholas Stark, Hibbing

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

Lorraine F. Steiner, Ellsworth, Wis.

B.S. '50, Wisconsin State College (River Falls). Field of Concentration: Speech and Theater Arts.

Beverly Rae Stiles, Walnut Grove

B.S. '52, University of Minnesota. Major: Physical Education. Minor: Educational Psychology. Thesis: To Determine the Effects of Trampoline Exercise on Selected Leg and Ankle Measurements.

Michael Joseph Stolee, Russell

B.A. '52, St. Olaf College. Field of Concentration: Educational Administration.

Nancy Roberson Stuessy, Mendota Heights

B.A. '33, Duke University; B.S. *cum laude* '57, Macalester College. Field of Concentration: Curriculum and Instruction.

Kalidevapura Puttiah Surendranath, Tumkur, India

B.A. (Hons) '51, B.Ed. '54, University of Mysore. Field of Concentration: Educational Psychology.

Aman Ollah Tahmasebi, Tehran,
Iran

Graduate '46, University of Tehran. Field of
Concentration: Business Administration.

Ethel Wall Taylor, Minneapolis

B.S. with high distinction '56, University of
Minnesota. Field of Concentration: Curricu-
lum and Instruction.

Mary Peglow Terry, St. Paul

B.S. '43, Iowa State College. Field of Con-
centration: Educational Psychology.

Roland Conrad Theis, Finlayson

B.S. '50, St. Cloud State Teachers College.
Field of Concentration: Educational Adminis-
tration.

Adrian Dallas Thompson, Faribault

B.S. '50, University of Minnesota. Field of
Concentration: Physical Education.

William Joseph Thorpe, Minne-
apolis

B.S. '48, University of Minnesota. Field of
Concentration: History.

Norman Eivind Thorson, Cody, Wyo.

B.A. '54, University of South Dakota. Field
of Concentration: Educational Administration.

Curtis Dean Urness, Isle

B.A. '49, Concordia College. Field of Concen-
tration: Educational Administration.

Manning Eugene Van Nostrand III,
Minneapolis

B.A. '52, St. Cloud State Teachers College.
Field of Concentration: Educational Psychol-
ogy.

Russell Douglass Walsh, Long Lake

B.A. magna cum laude '54, University of Min-
nesota. Major: Music. Minor: French. Thesis:
Chamber Suite in A for Flute, Clarinet, Bas-
soon, Horn, Trumpet, Viola and Violoncello.

Donald Kemble Ward, Hibbing

B.A. '47, University of Minnesota. Field of
Concentration: Social Work.

Alan Earl Welty, West Concord

B.S. with high distinction '58, University of
Minnesota. Field of Concentration: Geograph-
y.

John Nelson Whiton, Minneapolis

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

George C. Zabee, Comfrey

B.S. '51, St. Cloud State Teachers College.
Field of Concentration: Educational Adminis-
tration.

Roger Marvin Zimmerman, Gales-
ville, Wis.

B.S. '56, Wisconsin State College (Eau
Claire). Field of Concentration: Curriculum
and Instruction.

Master of Arts in Public Administration

Dong Suh Bark, Seoul, Korea

LL.B. '53, LL.M. '56, Seoul National Uni-
versity. Field of Concentration: Public Ad-
ministration.

Hae Dong Kim, Seoul, Korea

LL.B. '53, Seoul National University. Major:
Public Administration. Thesis: The Higher
Civil Examination System in Korea.

Woon Tai Kim, Seoul, Korea

B.A. '48, Seoul National University. Major:
Public Administration. Thesis: Administrative
Structure and Practices in the Government
of Korea.

Won Woo Suh, Seoul, Korea

LL.B. '53, LL.M. '55, Seoul National Uni-
versity. Field of Concentration: Public Ad-
ministration.

Master of Business Administration

Conrad Theodore Coen, Pine Island

B.B.A. '54, University of Minnesota. Field
of Concentration: Business Administration.

Michael John Evers, Plainview

B.B.A. '57, University of Minnesota. Field
of Concentration: Business Administration.

Master of Fine Arts

Robert Victor Berg, Thief River Falls
B.S. '52, Moorhead State Teachers College.
Major: Art. Minor: Anthropology. Thesis: Abstract Expressionism: The Romantic Climax.

Carol Hoorn Fraser, Minneapolis
B.S. '51, Gustavus Adolphus College. Major: Art. Minor: Philosophy. Thesis: The Human Image in Contemporary Painting.

Patricia Josephine Giliuson, Duluth
B.S. cum laude '51, University of Minnesota. Major: Art. Minor: Speech and Theater Arts. Thesis: The Motif of the Clown in Painting from Watteau to Picasso.

John Fletcher Townsend, LaCrosse, Wis.
B.S. '51, Carroll College (Wisconsin). Major: Art. Minor: Anthropology. Thesis: Arshile Gorky: The Myth and the Reality.

Master of Forestry

Robert Remer Davidson, Stillwater
B.S. '57, University of Minnesota. Field of Concentration: Forestry.

Roger Bruce Long, Minneapolis
B.S. '55, University of Minnesota. Field of Concentration: Forestry.

Master of Science

Maurey Lee Allen II, Appleton, Wis.
B.S. magna cum laude '57, College of St. Thomas. Field of Concentration: Biostatistics.

James Victor Bernardini, San Diego, Calif.
B.A. '56, San Diego State College. Field of Concentration: Botany.

John Vincent Botscheller, College Point, N.Y.
B.S. '56, City College of New York. Field of Concentration: Inorganic Chemistry.

John Edgar Cross, Llanelly, Wales
B.Sc. '56, University of Wales. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Genotypic and Phenotypic Correlations in Low-Gossypol Cotton and Their Implications in Selection.

Sukanta Kumar Dutta, India
B.Sc.(Vet.) '56, Bombay Veterinary College. Field of Concentration: Veterinary Bacteriology.

Gerald Wayne Emmer, Forest Lake
B.S. '58, University of Minnesota. Field of Concentration: Agricultural Economics.

Erwin Farkas, New York, N.Y.
B.S. '55, Cornell University. Field of Concentration: Psychology.

Marion Roger Fedde, Mankato, Kan.
B.S. '57, Kansas State College. Major: Poultry Husbandry. Minor: Physiological Chemistry. Thesis: Factors Affecting the Digestibility of Certain Dietary Fats in the Chick.

Paul Joseph Garvin, Jr., Mt. Prospect, Ill.
B.A. '50, St. John's University (Minnesota). Major: Pharmacology. Minor: Physiological Chemistry. Thesis: A Safety Evaluation of Mytelase^R (Win 8077), A New Drug in the Management of Myasthenia Gravis.

Ghazi Qasim Hassoun, Haifa, Palestine
B.S. '56, American University of Beirut. Field of Concentration: Physics.

Richard James Heynen, Cloquet
B.S. in Ch.E. '51, Michigan College of Mining and Technology. Field of Concentration: Business Administration.

Siriphong Intrama, Bangkok, Thailand
B.S. '54, Kasetsart University. Major: Plant Pathology. Minor: Botany. Thesis: The Curvularia Disease of Gladiolus.

Colin Frederick Jenner, Pembury,
Kent, England

B.Sc. '57, University of London. Major: Agronomy. Minor: Agricultural Biochemistry. Thesis: A Study on the Dehiscence of the Legume of Birdsfoot Trefoil (*Lotus corniculatus* L.).

Kathleen Behnke Jongedyk, Minneapolis

B.A. '53, State University of Iowa. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Studies of Solubility Properties and Conditions of Hydrolysis of the Conjugated 17-Ketosteroids.

Edna K. Jordahl, St. Paul

B.S. '38, Ellendale State Normal and Industrial School. Field of Concentration: Home Economics.

Joan Lenore Lundy, Rochester

B.S. '53, University of Washington. Major: Home Economics. Minor: Education. Thesis: The Effect of Niacin Deficiency on the Secretory Response of Vagally Innervated and Vagally Denervated Gastric Mucosa in Dogs.

Gordon Cornelius Marten, Wausau,
Wis.

B.S. '57, University of Wisconsin. Major: Agronomy. Minor: Soils. Thesis: A Comparison of the Chromogen-Chromic Oxide Technique and the Mower Strip Technique for Evaluating Pasture Utilization by Dairy Cows on Various Pasture Mixtures.

John Arthur Melin, St. Paul

B.S. *summa cum laude* '57, College of St. Thomas. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Synthesis and Properties of 1,8-Decahydronaphthalenedione.

Maurice Wesley Meyer, Minneapolis

B.S. '53, D.D.S. '57, University of Minnesota. Major: Physiology. Minor: Anatomy. Thesis: Microcirculation in the Small Intestine of the Dog.

Charles Thomas St. John, Waldorf

B.A. '52, Carleton College. Field of Concentration: Agronomy.

Ahmad Al-Haj Taha, Mosul, Iraq

Graduate '55, Iraq Agricultural College. Field of Concentration: Animal Husbandry.

Shirley Mae Weber, Portage La
Prairie, Canada

B.Sc. '48, University of Manitoba. Field of Concentration: Home Economics.

Master of Science in Aeronautical Engineering

Shuh-Twu Chow, Wusih, China

B.S. in C.E. '56, National Taiwan University. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Steady State Damped Vibrations and Stability of a Class of Non-linear Discrete Systems.

Master of Science in Anesthesiology

Allan Bryant Gould, Jr., Rochester

M.D. '52, Jefferson Medical College. Major: Anesthesiology. Minor: Physiology. Thesis: A Study of Respiratory Impedance.

William Chae-sik Lee, Seoul, Korea

M.D. '51, Seoul National University. Major: Anesthesiology. Minor: Pharmacology. Thesis: Respiratory Dead Space in Anesthetized and Conscious Humans: Factors Affecting It, with Emphasis on Postural Changes.

Master of Science in Civil Engineering

Ronald Albert Iwasko, Saginaw
B.S. '57, University of Minnesota. Major:
Civil Engineering. Minor: Aeronautical Engi-
neering. Thesis: An Investigation of the For-
mation of Plastic Hinges in Reinforced Con-
crete Beams.

Jorge Sibisa-Garces, Santiago, Chile
Civil Engineer '56, University of Chile. Field
of Concentration: Civil Engineering.

Master of Science in Dentistry

James Francis Quinley, Wichita,
Kan.

D.D.S. '52, Creighton University. Major:
Dentistry. Minor: Pathology. Thesis: A
Measurement of the Onset, Intensity and
Duration of Local Anesthesia Following the
Addition of Varying Concentrations of Epine-
phrine: An Electrophysiological Analysis.

Master of Science in Electrical Engineering

Kuang-Chi Hu, Peiping, China
B.S. in E.E. '56, National Taiwan University.
Major: Electrical Engineering. Minor: Mathe-
matics. Thesis: Some Electronics Problems
in Noise Measurements.

Li Jen Tseng, Hainan Island, China
B.S. '56, National Taiwan University. Major:
Electrical Engineering. Minor: Mathematics.
Thesis: Transient Stability Problems of the
General Two Machine System.

Verlyn Reno Mittelstadt, Fergus Falls
B.S. with high distinction '58, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: Equipment for
Studying the Electron Loss Processes Active in
Decaying Gaseous Discharge Plasmas.

Master of Science in Mechanical Engineering

Ronald William Klemetson, Wadena
B.Mech.E. '56, University of Minnesota. Ma-
jor: Mechanical Engineering. Minor: Mathe-
matics. Thesis: Dynamic Phenomena in an En-
gine Induction System.

Raymond Arthur Ostlund, Wayzata
B.S. '57, University of Minnesota. Field of
Concentration: Mechanical Engineering.

Bruce Carl Lindahl, Minneapolis
B.S. with distinction '57, University of Min-
nesota. Major: Mechanical Engineering. Mi-
nor: Mathematics. Thesis: Thermal Conduc-
tivity Predictions for Binary Gas Mixtures.

Master of Science in Medicine

Yvon Chartier, Montreal, Canada

B.A. '49, College of Sainte Marie; M.D. '54, University of Montreal. Major: Medicine. Minor: Hematology. Thesis: Peripheral Blood Findings in Untreated Lymphomata, with Special Emphasis on Morphology of Lymphocytes.

Master of Science in Neurology

Juergen Erick Thomas, Berlin,
Germany

M.D. '49, University of Goettingen. Major: Neurology. Minor: Basic Neurological Sciences. Thesis: Conduction Velocity of the Motor Fibers of the Ulnar Nerve in Infants and Children.

Master of Science in Plastic Surgery

Lyle Vernon Kragh, Rochester

B.S. '48, South Dakota State College; M.D. '52, University of Minnesota. Major: Plastic Surgery. Minor: Surgical Pathology. Thesis: A Clinical and Pathological Study of Osteogenic Sarcoma and Chondrosarcoma of the Jaws and Facial Skeleton.

Master of Science in Surgery

Richard Norval Moersch, Rochester

B.A. '48, Dartmouth College; M.D. '52, Harvard University. Major: Surgery. Minor: Surgical Pathology. Thesis: Pathologic Changes in Reflux Esophagitis.

Master of Social Work

Mary Margaret Wrbitzky Bork, Minneapolis

B.A. '56, Macalester College. Field of Concentration: Social Work.

Gerald Martin Ellenson, Minneapolis

B.A. '46, Hamline University. Field of Concentration: Social Work.

Jane May Grubb, Mathews, Va.

B.S. '57, College of William and Mary. Field of Concentration: Social Work.

Susan Ione Johnson, Dalbo

B.S. with distinction '55, University of Minnesota. Field of Concentration: Social Work.

Lois Jean Nelson, Minneapolis

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

June Collins Reinhard, Eveleth

B.S. '47, University of Minnesota. Field of Concentration: Social Work.

James Terrence Sarazin, Minneapolis

B.S.S. '54, St. Mary's College (Minnesota). Field of Concentration: Social Work.

Gloria Rose Serratore, St. Paul

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

Certificate of Specialist in Education

(Educational Administration)

Oscar Joseph Miller, Morris

B.E. '35, Mankato State Teachers College; M.A. '41, University of Minnesota. Field of Concentration: Educational Administration.

Gordon Douglas Nymann, Leroy

B.S. '46, Superior State Teachers College (Wisconsin); M.A. '48, University of Minnesota. Field of Concentration: Educational Administration.

Emil Frederick Wilken, Montevideo

B.E. '39, St. Cloud State Teachers College; M.A. '51, University of Minnesota. Field of Concentration: Educational Administration.

Doctor of Philosophy

Edmund James Amidon, St. Paul

B.S. '53, M.A. '57, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Dependent-Prone Students in Experimental Learning Situations. Major Advisers: Profs. T. W. Clymer and N. A. Flanders.

Val Earl Arnsdorf, Minneapolis

B.S. '50, M.A. '57, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: An Investigation of Teaching of Chronology in Sixth Grade. Major Adviser: Prof. G. L. Bond.

Vidya Bhushan Bhanot, Jullundur
City, India

B.Sc. (Hons.) '48, M.Sc. '48, Punjab University. Major: Physics. Minor: Mathematics. Thesis: The Atomic Masses and the Binding Energies in the Heavy Mass Region. Major Adviser: Prof. A. O. C. Nier.

John Wolfgang Bohnstedt, East
Lansing, Mich.

B.A. with high honor '50, Michigan State College; M.A. '52, University of Minnesota. Major: History. Minor: Philosophy. Thesis: The Turkish Menace in German Public Opinion, 1522-1542. Major Adviser: Prof. J. B. Wolf.

Mary Jane Buckman, Little Falls

B.S. with distinction '40, M.S. '58, University of Minnesota. Major: Anatomy. Minor: Pathology. Thesis: Studies on Embryonic and Fetal Hematopoiesis with Special Reference to the Goat. Major Adviser: Dr. R. D. Sundberg.

Curtis Harvey Carlson, Minneapolis

B.A. *magna cum laude* '49, B.S. '51, M.D. '53, University of Minnesota. Major: Physiological Chemistry. Minor: Physical Chemistry. Thesis: Retention, Distribution, and Excretion of Radiofluoride. Major Adviser: Dr. W. D. Armstrong.

Ronald Leroy Casebier, Bremerton,
Wash.

B.S. with highest honors '55, State College of Washington. Major: Organic Chemistry. Minor: Chemistry. Thesis: A Study of Radicals Containing the Allylic System. Major Adviser: Prof. C. F. Koelsch.

Douglas Morey Dearden, St. Louis
Park

B.A. '47, M.A. '49, University of Utah. Major: Education. Minor: Zoology. Thesis: An Evaluation of the Laboratory and Supplementary Teaching Techniques Used in a College General Biology Course. Major Advisers: Profs. R. E. Eckert and P. O. Johnson.

Thomas James Evensen, Menominee,
Mich.

B.A. '55, Augustana College (Illinois). Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Electrophilic Hydrogen Isotope Exchange Involving a Series of Benzocycloalkenes. Major Adviser: Prof. W. M. Lauer.

William Henry Foott, Harrow, Ontario, Canada

B.S.A. '51, University of Manitoba; M.S.A. '53, University of Toronto. Major: Entomology. Minors: Horticulture and Plant Pathology. Thesis: The Effects of Interspecific Competition on Populations of the European Red Mite, *Panonychus ulmi* (Koch), and the Two-spotted Spider Mite, *Tetranychus telarius* (L.). Major Adviser: Prof. A. C. Hodson.

Robert Arnold Goldstein, Spokane, Wash.

B.A. '52, University of Washington; M.A. '54, Stanford University. Major: History. Minor: Geography. Thesis: French-Iroquois Diplomatic and Military Relations, 1609-1701. Major Adviser: Prof. W. D. Beatty.

Tae Hee Hahn, Seoul, Korea

B.S. '50, M.S. '53, Seoul National University; M.S. in Ch.E. '57, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Effects of Geometry and Size of Specimen on Impact Crushing of Solids. Major Adviser: Prof. A. J. Madden.

William Richard Harmer, Mankato

B.S. '50, M.A. '57, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Effect of a Library Training Program on Summer Loss or Gain in Reading Abilities. Major Adviser: Prof. G. L. Bond.

Edwin Tuan Harper, Minneapolis

B.A. with honors '55, Grinnell College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Chemistry of 2,5-Diaryl-1,4-Dithiadienes. Major Adviser: Prof. W. E. Farham.

Helen Stephens Hohenhaus, Osakis

B.S. '48, M.A. '52, University of Minnesota. Major: Education. Minor: Home Economics. Thesis: Faculty and Student Perceptions of the Home Management Residence. Major Advisers: Profs. R. P. Ford and R. E. Eckert.

Murray James Kiteley, Minneapolis

B.A. '50, M.A. '58, University of Minnesota. Major: Philosophy. Minor: English. Thesis: Indirect Discourse and Modal Composition. Major Adviser: Prof. W. S. Sellars.

Inga Kromann, Tyler

B.S. with distinction '54, M.A. '56, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparative Study of the Speech and Auditory Characteristics of Children with Discrepancies Between Spelling and Reading Achievement. Major Adviser: Prof. G. L. Bond.

Fred August Krügel, Three Rivers, Mich.

B.A. with highest honors '51, Albion College; M.A. '54, University of Minnesota. Major: German. Minor: Spanish. Thesis: Suffering and the Sacrificial Ethos in the Dramatic Works of Franz Werfel. Major Adviser: Prof. F. H. Wood.

Ching Sing Li, Foochow, China

B.S. '40, National Sun Yat-Sen University; M.S. '55, University of Minnesota. Major: Entomology. Minor: Agronomy. Thesis: The Genera *Epilachna* and *Afidenta* of the Subfamily Epilachninae (Coccinellidae, Coleoptera) in Formosa. Major Adviser: Prof. E. F. Cook.

Gayle Kelly Lumry, Minneapolis

B.A. '41, College of St. Catherine; M.A. '42, State University of Iowa. Major: Psychology. Minor: Neuropsychiatry. Thesis: An Investigation into Some of the Variables Contributing to Performance on the Block Design Test. Major Adviser: Prof. William Schofield.

Allen Lloyd Lundgren, Grand Rapids

B.S. '51, M.F. '54, University of Minnesota. Major: Forestry. Minor: Economics. Thesis: Farm Lumber Consumption and Use: Methods of Estimating and Results of an East-Central Minnesota Survey. Major Adviser: Prof. R. I. Beazley.

Mary Besse MacDonald, Laredo, Tex.

B.A. *magna cum laude* '30, M.A. '31, University of Minnesota. Major: Spanish. Minor: French. Thesis: The Influence of Emile Zola in the Novels of Benito Perez Galdos Produced During the Years 1881-1885. Major Adviser: Prof. W. T. Pattison.

Parviz Mahmoodi, Tehran, Iran

B.S. in M.E. '55, Abadan Technological Institute; M.S. in M.E. '56, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Generalized Theory for Work-Hardening Materials. Major Advisers: Profs. J. J. Ryan and W. H. Warner.

Philip Andre Marks, Long Beach,
Calif.

B.A. '53, Fresno State College; M.A. '54, Long Beach State College. Major: Psychology. Minor: Child Development. Thesis: The Validity of the Diagnostic Process in a Child Guidance Setting: A Multidisciplinary Approach. Major Adviser: Prof. R. D. Wirt.

Edward Olaf Nelson, St. Paul

B.A. '49, Luther College; M.A. '50, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: A Solution of the Generalized Heat Flow Equation in a Bounded Region as a Wiener Integral. Major Adviser: Prof. R. H. Cameron.

Bonifacio Ebarle Pilapil, Buenavista,
Agusan, Philippines

B.S.E. '51, Southern Luzon College; M.A. '53, Adamson University. Major: Education. Minor: Sociology. Thesis: A Study of Certain Attitudes Toward School and Community Functions in Small School Districts. Major Adviser: Prof. C. P. Archer.

Subhi Abdel-Fattah Ahmad Qasem,
Tulkarm, Jordan

B.S. in Ag. '56, Kansas State College; M.S. '57, University of Minnesota. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Studies on Deterioration of Stored Corn by Fungi. Major Adviser: Prof. C. M. Christensen.

Roland Walter Radloff, Minneapolis

B.A. with high honors '50, Elmhurst College. Major: Psychology. Minor: Educational Psychology. Thesis: Opinion and Affiliation. Major Adviser: Prof. H. H. Kelley.

Herbert Joseph Rebhan, Southgate,
Ky.

B.S. '55, University of Kentucky; M.S. '56, University of Minnesota. Major: Dairy Husbandry. Minor: Physiological Chemistry. Thesis: The Effect of Condition on Maintenance Requirements and a Related Study of Factors Affecting Creatinine Excretion. Major Adviser: Prof. J. D. Donker.

David Elmer Rice, Northfield

B.A. *magna cum laude* '55, St. Olaf College. Major: Organic Chemistry. Minor: Chemistry. Thesis: Electrophilic Hydrogen-Deuterium Exchange of Some Polynuclear Aromatic Hydrocarbons. Major Adviser: Prof. W. M. Lauer.

Han Yeol Ryu, Suwon, Korea

B.S. (Ag. Eng.) '52, Seoul National University; M.S. in Ag. Eng. '57, University of Minnesota. Major: Agricultural Engineering. Minor: Mathematics. Thesis: Physical Tests to Measure the Durability of Concrete Drain Tile When Exposed to Acid Waters. Major Adviser: Prof. Andrew Hustrulid.

Robert W. Schneider, Loudonville,
Ohio

B.A. '55, College of Wooster; M.A. '56, Western Reserve University. Major: History. Minor: Political Science. Thesis: Man and the Progressive Novelists. Major Adviser: Prof. D. W. Noble.

Richard Arlen Schutz, Pine Island

B.S. '51, M.A. '56, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Relationship of Self-Satisfaction to Stated Vocational Preferences. Major Advisers: Profs. W. E. Dugan and E. P. Torrance.

Maude Shirley Shapiro, London, On-
tario, Canada

B.A. '35, University of Western Ontario; Graduate '37, University of Toronto. Major: Speech. Minor: Journalism. Thesis: A Rhetorical Critical Analysis of Lecturing of Maria Louise Sanford. Major Adviser: Prof. W. S. Howell.

Ross L. Shoger, Oswego, Ill.

B.A. with high honor '51, North Central College; M.S. '53, Purdue University. Major: Zoology. Minor: Botany. Thesis: An Investigation of Interactions Between the Primordial Germ Layers of the Early Chick Embryo. Major Adviser: Prof. N. T. Spratt, Jr.

Quenton Terrill Smith, Ames, Iowa

B.S. '51, M.S. '52, Iowa State College. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: *In Vivo* Effects of Certain Hormonal Variations on Collagen Metabolism. Major Adviser: Dr. W. D. Armstrong.

Louis Marco Trefonas, Chicago, Ill.

B.A. '51, M.S. '54, University of Chicago. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: The Crystal and Molecular Structures of B_2F_4 and $[(CH_3)_2N]_3(BH_2)_3$. Major Adviser: Prof. W. N. Lipscomb.

Ram Lakhan Tripathi, Gorakhpur,
U.P., India

B.Sc.(Ag.) '51, M.Sc.(Ag.) '53, Government
Agricultural College (Kanpur). Major: Entomology. Minor: Plant Pathology. Thesis: Interspecific Competition Between Rice Weevil, *Sitophilus oryza* (Linn) and Granary Weevil, *Sitophilus granarius* (Linn). Major Adviser: Prof. A. C. Hodson.

Yaacov Ventura, Beersheva, Israel

Graduate '51, Hebrew University. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance Studies of the Gold Test Reaction of *Zea mays*. Major Adviser: Prof. E. H. Rinke.

Norris Donald Vestre, St. Cloud

B.A. cum laude '55, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: An Experimental Study of the Effects of Chlorpromazine on Association Learning in Schizophrenic Patients. Major Adviser: Prof. William Schofield.

Warren Weston, Kirksville, Mo.

B.A. '41, University of Georgia; M.A. '48, University of Denver. Major: Political Science. Minor: History. Thesis: A Comparison of Methods of Filling Vacancies in the U.S. Senate and the U.S. House of Representatives, 1912-1954. Major Adviser: Prof. A. N. Christensen.

Paul Henry Whiteman, Cleveland,
Ohio

B.S. '48, M.A. '50, Western Reserve University. Major: Child Welfare. Minor: Psychology. Thesis: The Relation of Religious Affiliation to Parents' Opinions Concerning Child Rearing and Childrens' Problems, and Parents' Evaluations of Their Own Personalities. Major Adviser: Prof. D. B. Harris.

Donald Lloyd Wolfarth, Long Prairie

B.A. cum laude '50, Hamline University; M.A. '53, University of Minnesota. Major: Speech. Minor: History. Thesis: The Inaugural Addresses of the Presidents of the United States: A Content Analysis. Major Adviser: Prof. W. S. Howell.

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
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

August, 1959

- 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 on the Terrace of the Coffman Memorial Union. In case of rain the Main Ballroom will be used.
- Those in the receiving line will be Vice President Malcolm M. Willey and Mrs. Willey, Mr. Pierre Meyer, President of the Coffman Union Board of Governors, and Miss Suanne Bergan, Chairman of the Interim Credentials Committee 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.
- All guests are urged to register at the appropriate tables. The signed pages will be bound and preserved by the class of 1959.
- 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

December Commencement

1959

NORTHROP MEMORIAL AUDITORIUM
THURSDAY EVENING, DECEMBER 17
AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. Laurence R. Lunden, Secretary

Mr. Clarence E. Larson, Assistant Secretary

Mr. Clinton T. Johnson, Treasurer

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 Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

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

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 the 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 eighth 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 146,000 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 26,000 students on its Minneapolis, St. Paul, and Duluth 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 three 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 Twin City Area Educational Television Station KTCA-TV, 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 and the Veterans of Foreign Wars Cancer Research Center and are making it possible to construct Diehl Hall (which will house 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 1958-59 showed that the University received \$88,524,771.68 and spent \$88,520,513.75. This includes a total of \$14,333,868.14 received from student tuition and fees, hospital and other department receipts; \$1,205,359.98 from intercollegiate athletics; \$13,941,035.89 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 \$1,205,359.98 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, \$3,176,924.03 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$88,524,771.68 which the University received for 1958-59, \$38,410,936.10, or 43.4 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 candidates for degrees 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 Miss Helen Garvey, SLA '60, 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 RECITAL: From 7:30 to 8:00 p.m., Assistant Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play:

<i>Prelude and Fugue in F Sharp Minor</i>	- - - - -	Buxtehude
<i>Two Preludes on Christmas Chorales</i>	- - - - -	Pachelbel
<i>From Heaven Above</i>		
<i>How Lovely Shines the Morning Star</i>		
<i>Phantasy in G Major</i>	- - - - -	Bach

PROCESSIONAL: Traditional Christmas Music

ON THE STAGE: As candidates for degrees enter the auditorium at 8:00 p.m., the curtain will be opened. Seated on the stage, left to right, are: Assistant Professor Douglas M. Dearden, Ph.D., General College, Marshal; Associate Professor Robert M. Jordan, Ph.D., Institute of Agriculture, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Assistant Dean Austin A. Dowell, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Huntington Miller, LL.B., General Extension Division; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Colonel Robert O. Bowen, USMC, Professor of Naval Science; The Honorable Marjorie J. Howard (Mrs. C. Edward), Regent of the University of Minnesota; Dean Errett W. McDiamid, Ph.D., College of Science, Literature, and the Arts; The Reverend Edwin Johnson, B.D., Adviser to Congregational, Evangelical and Reformed, and Presbyterian students and staff members on the St. Paul Campus of the University; Dean Theodore C. Blegen, Ph.D., Graduate School; Vice President Malcolm M. Willey, Ph.D., Academic Administration; Dean John E. Burchard, L.H.D., School of Humanities and Social Studies, Massachusetts Institute of Technology, Commencement Speaker; President James Lewis Morrill, LL.D., University of Minnesota; Mr. Karl G. Neumeier, former Regent of the University of Minnesota; The Honorable Ray J. Quinlivan, Chairman of the Board of Regents of the University of Minnesota; Vice President Laurence R. Lunden, LL.D., Business Administration; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Walter W. Cook, Ph.D., College of Education; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean of Students Edmund G. Williamson, Ph.D.; Colonel Arthur W. Dem, USAF, Professor of Air Science; Dean Horace T. Morse,

Order of Events

Ph.D., General College; Colonel Roy K. Kauffman, USA, Professor of Military Science and Tactics; Professor Roy A. Schuessler, M.M., Music; Associate Professor George S. Hage, Ph.D., College of Science, Literature, and the Arts, 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. Our guests will be interested in knowing that the United States flag and the State of Minnesota flag being used this evening have been presented to the University by the Greater Minneapolis-St. Paul Area Joint Apprenticeship Conference. This is the first time the new fifty-star American flag has been used on the Campus.

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 rockets' 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: President James Lewis Morrill.

PRESENTATION OF A REGENTS' CERTIFICATE OF MERIT: The Honorable Ray J. Quinlivan will present a Regents' Certificate of Merit to Mr. Karl G. Neumeier.

COMMENCEMENT ADDRESS: Dean John E. Burchard, School of Humanities and Social Studies of the Massachusetts Institute of Technology, "Consider the Lilies."

CONFERRING OF ROTC CERTIFICATES: Vice President Willey will introduce Colonel Kauffman, Colonel Bowen, and Colonel Dern, 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 Morrill.



THE UNIVERSITY OF MINNESOTA
IN APPRECIATION OF DEVOTED SERVICE
PRESENTS THIS
REGENTS' CERTIFICATE OF MERIT
TO
Karl G. Neumeier
MEMBER OF THE BOARD OF REGENTS
1953-1959

And thereby formally recognizes and gives grateful expression

FOR all that his services have meant

To the University and to the citizens of the state;

FOR 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,

FOR what his personal association and friendship over the years have meant

To his colleagues on the Board of Regents

PRESENTED this Seventeenth Day of December, in the Year of Our Lord, the One Thousand
Six Hundred and Fifty-ninth, and of the University of Minnesota, the One Hundred and Eighth.

L. M. Merrill

L. R. Lunden

IDENT

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

SECRETARY

Order of Events

PRESENTATION OF CANDIDATES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Morrill 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; Dean Spilhaus for the Institute of Technology; Assistant Dean Dowell for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Cook for the College of Education; Dean Kozelka for the School of Business Administration; Dean Howard for the College of Medical Sciences; Dean Blegen for the Graduate School.

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

PRESENTATION OF DIPLOMAS: With Dean Williamson presiding, all 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 Dean Blegen to President Morrill, who will confer the degrees.

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

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: Assistant Professor Fleischer.

Toccata in D Minor - - - - - Reger

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 AND TACTICS

Second Lieutenant, Adjutant General Corps

Martin S. Raver, Minneapolis

Second Lieutenant, Artillery

Robert E. Nilssen, Minneapolis

Second Lieutenant, Infantry

Earl J. Lyons, Jr., Minneapolis

Robert F. Thimmesh, Minneapolis

Second Lieutenant, Transportation Corps

Clair A. Lewis, Minneapolis

Raymond M. Swinton, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Peter Beach Lloyd, Albert Lea

Frederick Allen Strommer, Winona

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Fredric M. Rose, Minneapolis
Robert L. Taus, Crookston

Donald E. Thompson, Fergus Falls

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

Hilia Laituri Kero, St. Paul

John Leonard Westin, Duluth

General Engineering Certificate

Kenneth William Copp, St. Paul

Richard Donald Lehmann, White
Bear Lake

Industrial Engineering Certificate

John Dinsmore Hale, Minneapolis

GENERAL COLLEGE

Associate in Arts

Clarence Arnold Anderson, Jr.,
St. Paul

Willard Paul Anderson, Minneapolis

Frederick James Armstrong, Minne-
apolis

George Benjamin Ash, Minneapolis

Fredric Lee Ashenbrenner, Jr., Edina

Eugene Raymond Baker, St. Paul

Paul Anton Benson, St. Paul

Charles Dvorak Beshears, Minneapolis

Marlene Joan Boris, Minneapolis

Bruce Guy Churchill, Minneapolis

Mary Catherine Clark, Minneapolis

Jerome David Collins, St. Paul

Charles David Cooper, St. Paul

Lee Theodore Cumberland, Owa-
tonna

Bruce Richard Danielson, Robbins-
dale

Robert Howard Deegan, Lyons, Ill.

Gary Melvin Dekko, Gary

Michael David Dingmann, Minne-
apolis

Bernard Anthony Dock, Minneapolis

Thomas Andrew Dodge, Minneapolis

Richard Wallace Drabek, Minneapolis

Frank George Dye, Minneapolis

Robert William Elmquist, Hopkins

James Bachtle Emerson, Jr., Edina

Philip Munson Engdahl, Minneapolis

Judy Frances Ernst, St. Paul

Robert Louis Farinacci, St. Paul

Gary Dennis Folske, Minneapolis

Loren Robert Frank, Minneapolis

Eugene Philip Galatowitsch, St. Paul
David Jon Gamble, St. Paul
Leota Brooks Gladden, Kirkwood, Mo.
Louis George Gottschalk, Osseo
Charles Edward Gross, Minneapolis
Carol Jane Haberstroh, Silver Springs,
Md.

Timothy DeWitt Halloran, Edina
Charles Robert Halvorson, St. Paul
Michael John Hansen, Minneapolis
William Richard Hart, Minneapolis
Ronald Richard Hedstrom, Minne-
apolis

Harry Douglas Hill, Wayzata
Gordon Theodore Hirsch, Minne-
apolis

Wayne James Hokemeir, Minneapolis

Gary Gilbert Holstad, Cross Lake
Gilbert R. Jacobson, Minneapolis
Roy Edward Jacobson, St. Louis Park
Joseph William Jerhoff, St. Paul
Irving Joseph, St. Paul

Roy Lee Kemink, St. Paul
Richard Conroy King, New Brighton
Dean Raymond Kolden, Minneapolis
Diane Marie Kuka, Mound
David Wilson Kypke, Minneapolis
David Arnold Lange, Minneapolis
Melita Lazdins, St. Paul
Richard Alfred Lindell, Albert Lea
Franklin Delano Lindstrom, Red
Wing

Nelson Adrian Lundberg, Minneapolis

James Edward Madigan, St. Paul
Judie A. B. Mandel, Minneapolis
James Dennis Mangan, Minneapolis
Jay Thurston McCluskey, St. Paul
Robert Eugene McGinn, St. Paul
Thomas Walter Meier, Minneapolis
Eldon Jacob Mohrland, South St.
Paul

Ronald Ralph Morehouse, Minne-
apolis

Victor Nazarenko, Minneapolis
James Alan Neubauer, Minneapolis
Diane Joan North, Edina
John Dewey Orndorf, Jr., St. Paul
Lawrence Edwin Palmer, Jr., Stillwater
Gary Martin Pelletier, Minneapolis
Donald Stanley Peterson, Minneapolis
Joan Margaret Peterson, Cokato
Virginia Louise Quanstrom, Brainerd
Philip Lawrence Reetz, Minneapolis
Charles Owen Regal, St. Paul
Lee G. Reudelsterz, Minneapolis
Robert Bruce Roddy, Rome, N. Y.
Gerald Anthony Rogers, Minneapolis
Ronald Richard Roholt, Minneapolis
Barbara Ann Mary Rossi, St. Paul
Robert Jordan Sanford, Minneapolis
Richard Gregg Schramm, Excelsior
David Murray Schwamm, Minneapolis
Lewis Eugene Scott, Minneapolis
Edward Joseph Slominski, Jr., Minne-
apolis

Dennis Truman Smith, Minneapolis

Gordon D. Smith, Minneapolis

John Harvey Snyder, Minneapolis

Donna Jo Sogge, Anoka

Gayle A. Stameshkin, St. Paul

William Payson Strout, Minneapolis

Richard Carl Swan, Lakeville

Ellsworth Talbert Swanson, Crystal
Bay

Gerald Alvin Teich, St. Paul

Donald Leslie Thomas, Minneapolis

Edward Francis Vennewitz, Minne-
apolis

William Augustine Verkennes, Minne-
apolis

James Albert Vitek, St. Paul

Burdell Rensen Wessels, Ellsworth

George Worthington Wirth, Minne-
apolis

Gregory Nicholas Zurn, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Suzanne Carol Agranoff, Sioux City,
Iowa
Vera Eileen Anderson, Stewartville
Joyce Frances Bryntesen, Edina
Barbara Lou Burress, Robbinsdale
Sue Crosswell, Golden Valley
Ronald L. Haskvitz, Minneapolis

Stuart Edward Kloner, St. Paul
Elizabeth Ann Knopp, Mahtomedi
Meredith Ransdall McClain, Minne-
apolis
Helen Margaret Zahradka, Minne-
apolis

Bachelor of Arts

Douglas Stewart Andersen, Minne-
apolis
Peter James Andersen, Brewster
Marcus Daniel Anderson, Faribault
Philip Burton Anderson, Preston
William Einar Anderson, St. Paul
Sally Van De Water Andrews, Minne-
apolis
*Asimina Angelos, Rochester, MAGNA
CUM LAUDE*
Daria Antochy, Minneapolis
Dale Robert Beaman, Parkers Prairie
*Darla Harriet Berg, Minneapolis,
SUMMA CUM LAUDE*
*Robert Lloyd Bernick, Los Angeles,
Calif., MAGNA CUM LAUDE*
William Forest Birdsall, Rosemount
Beth Madelon Bofferding, Minne-
apolis
Allan George Bostelmann, A.A., St.
Paul
James H. Brockman, A.A., Brainerd
Jacquelyn Johann Broden, Minne-
apolis
Aaron William Burchell, Hillsboro,
Wis.
F. Robert Burtis, St. Paul
Robert Wayne Carlson, Cloquet
Susan Elizabeth Carlson, Minneapolis
Don Joel Challman, A.A., St. Paul
Judith Katherine Day, Duluth
George T. Delizonna, St. Paul
Richard Conrad Depta, Minneapolis
David Anthony Devine, St. Paul
Robert Alan Drew, Minneapolis

Edward Payson Emerson, St. Paul
Thomas Henry Engebretson, Brecken-
ridge
Ann Marie Kuusinen Engen, A.A., St.
Cloud
John Leroy Erickson, Minneapolis
Kent Fawcett, St. George, Utah
Donald Wellington Feidt, Minne-
apolis
*Orlando Gale Fladmark, Pelican Rap-
ids, MAGNA CUM LAUDE*
David Herbert Fortmeier, St. Paul
Donald Joseph Frank, Staples
Robert Andrew Frenchik, White Bear
Lake
Louis Albert Fritsche, St. Paul
Richard Peter Fuchs, Hastings
Gerald Roger Giombetti, Eveleth
Norman Thomas Gonnella, Minne-
apolis
Neil Norman Gould, Minneapolis
Richard Joseph Graziano, Minneapolis
*Darlene Daws Griffiths, Hutchinson,
CUM LAUDE*
Gustav Daniel Guldseth, Hendricks
Ronald Lee Hamsness, Minneapolis
*Richard James Hansen, Minneapolis,
CUM LAUDE*
David Duane Healey, Rochester
*Thomas Clair Hegstad, Slayton, CUM
LAUDE*
Allan Albert Heide, Minneapolis
*George Vernon Heins, Lake City,
CUM LAUDE*
Pauline G. Heller, St. Paul

Anatol M. Hnojewyj, Minneapolis
 Charles Francis Huddleston, Stanchfield
 Richard Arlen Jackson, A.A., Brainerd
 Paulette Marie Jelense, Minneapolis, CUM LAUDE
 Marilyn Marie Jewett, Minneapolis, CUM LAUDE
 Leila Marie Johnson, Minneapolis
 Thomas Gaffney Johnson, Turtle Lake, Wis.
 Wendell H. Jones, Le Sueur
 Mary Moonan Jordan, Minneapolis
 Robert Noel Jungquist, Navarre
 Benjamin Lifson Kaufman, Minneapolis
 Andrew Raymond King, Glenview, Ill.
 James Hammond Kneen, A.A., Minneapolis
 Peter Sylvester Koontz, Minneapolis, CUM LAUDE
 George Arno Koskinen, Hibbing
 Sara Josephine Kroll, Minneapolis, CUM LAUDE
 Gary Glen Kuhn, South St. Paul, MAGNA CUM LAUDE
 Marilyn Ruth Kylander, Mora, CUM LAUDE
 Allan Wilbur Lamkin, Minneapolis
 Barbara Reid Larson, Minneapolis
 Kenneth Eugene Larson, St. Paul
 Clair Arnold Lewis, Minneapolis
 Louzelle Albert Luke, Sauk Centre
 Harold Fredric Lundby, Jr., Minneapolis
 Merlin Justin Magnusson, Spring Grove
 Donlan Everett Maltby, St. Louis Park
 Nickolas Miklos Mazanyi, Miskolc, Hungary
 Charles Clement McGuire, Jr., Minneapolis
 James David McKay, South St. Paul
 Richard Keith Merwin, Minneapolis
 Rita Marie Michaud, Minneapolis
 David Charles Miller, Minneapolis
 Ronald Eugene Mitchell, Minneapolis
 Robert James Mittelstadt, Racine, Wis., CUM LAUDE
 Marland Louis Mork, St. Paul
 William H. Nara, Hibbing
 James Marshall Neelan, St. Paul
 Norma Mary Neigebauer, Owatonna
 Laura Neville, Edina
 Karl Walter Nitardy, Minneapolis
 John Clarence O'Brien, St. Paul
 Roberta Ann Olson, Hopkins
 Nancy Joan Parker, St. Paul
 Vernon Delmon Parker, Antigo, Wis., CUM LAUDE
 Jerome Larson Paul, St. Paul
 Ruth Ann Pederson, Kenmare, N.D., MAGNA CUM LAUDE
 David William Peterson, Cloquet
 Frederick Briggs Porter, Edina
 Earl Floyd Potvin, Minneapolis
 Evelyn Marie Powers, Walker
 Robert Francis Puccio, Minneapolis
 Curtis Michael Quinn, St. Louis Park
 Marvin Stanley Raver, Minneapolis
 Ronald Charles Riley, Minneapolis
 Sheridan Herbert Robson, Minneapolis
 Robert James Rollins, Minneapolis
 Dennis Ralph Ryan, Minneapolis
 Mary Antoinette Salvatore, St. Paul
 Howard Wayne Sargent, South Hiram, Maine, CUM LAUDE
 Peter Henry Schneeman, St. Paul, CUM LAUDE
 Roswitha Elisabeth Schugt, Minneapolis
 Ralph Wayne Schulz, Wells
 Geoffrey Ball Schuster, Wayzata
 John Douglas Sewall, Minneapolis
 Edward Frank Shank, South St. Paul
 Gerald Conrad Shaw, Princeton
 Priscilla Jane Thomas Shoop, St. Paul
 Jared Melville Smalley, Glenwood
 Marian Tschudy Smith, Minneapolis
 Meredith Sommers, Minneapolis, CUM LAUDE
 Ingeborg Dortha Sonnesyn, Edina
 James Ingham Soule, Minneapolis
 Gary Clinton Stamman, Hardwick
 Glen Alfred Staples, A.A., Minneapolis
 Barbara Ann Steel, St. Paul
 Gail Martha Stewart, Minneapolis

Philip Raymond Sullivan, Minneapolis	Hartmut Joachim Wegner, Minneapolis
Carolyn Anne Sundin, Minneapolis	Donald Gary Wicklund, A.A., Superior, Wis.
Carl Eric Sundquist, Minneapolis	Robert Hardy Wilcox, Minneapolis
Dale Bennett Swanson, Minneapolis	Elizabeth Ann Willar, St. Paul
Dorothy Theresa Wick Swanson, Minneapolis	Barbara Joan Wittles, Minneapolis, CUM LAUDE
William Edward Swanson, Minneapolis	John Karl Wolf, Minneapolis, MAGNA CUM LAUDE
Janice Jean Johnson Walter, Starbuck	Leonard Winston Wray, Minneapolis
Wayne Norman Wangstad, A.L.A., Minneapolis	Raymond Eugene Zelinski, St. Paul
Alice Marie Wayne, St. Paul	

UNIVERSITY COLLEGE

Bachelor of Arts

Patricia Lou Smith Benson, Luverne	Mary Jane Hartman, A.L.A., St. Paul
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INSTITUTE OF TECHNOLOGY

Bachelor of Science

Dennis Victor D'Andrea, Keewatin	David Allen Meyer, Robbinsdale, WITH DISTINCTION
Jerry A. Katz, Minneapolis, WITH DISTINCTION	Robin Edward Schaller, Stillwater, WITH DISTINCTION
Lowell Allen Kleven, Madison, WITH DISTINCTION	
Jay Dennis Loren, Minneapolis, WITH DISTINCTION	

Bachelor of Aeronautical Engineering

Fred Charles Fenske, Jr., Frederic, Wis.	Alvin Sam Gray, Minneapolis
	Donald Robert Zipoy, Minneapolis

Bachelor of Architecture

Valeria Batorewicz, Kotiw, Ukraine, WITH DISTINCTION	Susan Hegland, Minneapolis, WITH DISTINCTION
David Joel Bennett, New York, N.Y.	Ronald Krank, Minneapolis
Richard Thomas Faricy, B.A., St. Paul	David Schroeder, Manitowoc, Wis.
Marlo Wilfred Hanson, A.L.A., B.A., Minneapolis	

Bachelor of Chemical Engineering

John Andrew Kugler, St. Paul

Bachelor of Chemistry

Joel Gordon Malmberg, St. Paul

Bachelor of Civil Engineering

Donald Ward Larsen, Minneapolis

Charles Arthur Schleder, Winona

Bachelor of Electrical Engineering

David Arthur Freund, Minneapolis

Orvin Duane Heimsness, Wildrose,
N.D.*

Bachelor of Geological Engineering

Benny Gustav Grosz, Alexandria

Bachelor of Mechanical Engineering

Roger Odell Bjerk, Minneapolis
Donovan Homer Covert, Faribault
Peter Steven Ekholm, St. Paul
Alvin Isenberg, Minneapolis
Gerald Warren Johnson, Excelsior
Lowell Alan Kisrow, Ely
Norman Thomas Mattson, Duluth

Darwin John Monson, Belview
James Ernest Peterson, Minneapolis
Robert Glenn Reed, Austin
Donald Edward Sheppard, Minne-
apolis
John Wesley Swanson, Brainerd
John Dennis Teppen, Duluth

Bachelor of Mining Engineering

Jack Eugene Gay, Hinckley
Raja Audi Mansoor, New Ulm

William John Schwappach, Minne-
apolis
Roger Keith Stehn, Danvers

* Degree conferred as of August 20, 1959

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

Bachelor of Science

- Dean Rodney Anderson, Howard Lake, Agriculture
Ronald Irvin Anderson, Cokato, Agriculture
Bennie Alan Bendtsen, A.A., Rose Creek, Forestry
Rodger Carlton Brask, Minneapolis, Forestry
Larry Dale Buegler, Kasson, Agriculture
Lois Marilyn Westafer Carlson, Hopkins, WITH DISTINCTION
Janet Louise Cole, Verona, N.J., Home Economics
James Roy Curtiss, Litchfield, Agriculture
Robert Charles Eager, Wayzata, Agriculture
Everett Earle Gerths, Hastings, Agriculture, WITH DISTINCTION
Donald Charles Grunnes, Minneapolis, Agriculture
Robert Leroy Haase, Bertha, Forestry
Jerome Charles Haeg, Mora, Agriculture
Albert Hafstad, Owatonna, Agriculture
Oliver Soholt Hoffman, Madison, Agriculture
Gene Raymond Josephs, St. Paul, Agriculture
David Warren Linne, Edina, Forestry
Benjamin Mathew Lukes, Long Prairie, Forestry
Gerald Henry Maertens, Wabasso, Agriculture
David LeRoy Matasovsky, Lakefield, Agriculture
Richard Lee Meyer, Welch, Agriculture, WITH DISTINCTION
Geraldine Lois Miller, Roseau, Home Economics
Marlys Munson Mohamed, Savage, Home Economics, WITH DISTINCTION
Patricia Ann Niska, Brainerd, Home Economics
Todd Richard Oman, Minneapolis, Agriculture
Glenn MacArthur Park, Minneapolis, Forestry
Allen Fredrick Peterson, Long Prairie, Agriculture
Paul Ernest Prigge, North St. Paul, Forestry
Arthur George Raske, Minneapolis, Forestry, WITH DISTINCTION
Judith Ann Prochniak Rose, Duluth, Home Economics
Robert Charles Ruona, Hector, Agriculture
Donald Thomas Simon, Maplewood Village, Home Economics
Logan William Stamp, Madison, Agriculture
Kenneth Oliver Steiro, Boulder Junction, Wis., Forestry
Paul Alfred Suomala, Frazee, Agriculture
George Albert Swanson, A.A., St. Paul, Agriculture
Frederick Philip Weber, Des Moines, Iowa, Forestry
Sharon Lee Whitson, St. Paul, Home Economics
Gary George Zitzer, Crookston, Agriculture
Donald Eugene Ziwiscky, Poynette, Wis., Forestry

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

Bachelor of Science

- Sharon Patricia Radford Astleford,
Minneapolis, Home Economics Education
- Gail Rosalie Aune, Hendricks, Home
Economics Education
- Florence Elizabeth Benjamin, Hast-
ings, Home Economics Education
- Barbara Patricia Benon, Minneapolis,
Home Economics Education
- Constance Ruth Brooks, Princeton,
Home Economics Education
- Velta Skaidrite Bumbiers, Austin,
Home Economics Education
- Norman Lee Busse, Sr., Fosston,
Agricultural Education
- William Douglas Butler, A.A., Anoka,
Agricultural Education
- Kermit Peter Christensen, Shafer, Ag-
ricultural Education, WITH DISTINC-
TION*
- Curtis Jewell Churness, St. Paul, Ag-
ricultural Education
- Dean R. Conklin, New Hartford,
Iowa, Agricultural Education
- George Robert Conzemius, Hastings,
Agricultural Education
- Joyce Linnea Erickson, Rockford, Ill.,
Home Economics Education
- Peter Hubert Fehlen, Hampton, Agri-
cultural Education
- Everett Allan Hellickson, Minneapolis,
Agricultural Education
- Ronald Fred Matzke, Rapidan, Agri-
cultural Education
- Arvid Monroe Monson, Pequot Lakes,
Agricultural Education, WITH HIGH
DISTINCTION*
- Ardith Corrine Neuman, Pennington,
Home Economics Education
- Marian Lavona Ojala, Minneapolis,
Home Economics Education
- Patricia Rae Murphy Pavek, Ely,
Home Economics Education
- Charles Kenneth Pederson, Appleton,
Agricultural Education
- Anne Mary Plihal, Hutchinson, Home
Economics Education
- Miriam Elizabeth Suomala, Frazee,
Home Economics Education
- Marlyn William Wacholz, Kiester,
Agricultural Education
- Marlys C. Rinkel Weinman, B.B.A.,
White Bear Lake, Home Economics
Education
- Vernon Joseph Yetzer, Oak Park, Ag-
ricultural Education, WITH DISTINC-
TION*

COLLEGE OF EDUCATION

Bachelor of Science

- Robert Smith Abrams, Minne-
apolis
- Keith Owen Anderson, Sacred Heart
- Judith Marilyn Beach Bares, Min-
neapolis
- Florine Margaret Bauer, St. Paul,
WITH DISTINCTION**

* Nursing Education Curriculum

Barbara Elizabeth Lee Behnke, Minneapolis, WITH DISTINCTION
 Carole Marie Jacques Benzick, Chaska, WITH DISTINCTION
 Bruce Alfred Bernin, St. Paul
 Shirley Heikkila Boline, Robbinsdale
 Sigrid Elizabeth Zuger Bucklin, Minneapolis
 Virginia Vautrot Buerki, B.A., Brecksville, Ohio
 Gladys Audrey Cheney, St. Louis Park
 Jimmy Fred Crain, Kansas City, Mo., WITH DISTINCTION
 Dorothy Elizabeth Ford, St. Paul
 Mary Catherine Ford, G.D.H., Minneapolis
 Ruth Irene Fuerstenau, Cedar Rapids, Iowa*
 Marjorie Siemens Geary, Lake Crystal, WITH HIGH DISTINCTION*
 William Kendall Glidden, Minneapolis
 Macha Joy Grannis, South St. Paul
 Jerry John Grimshaw, B.A., Minneapolis
 Barbara Carol Anderson Halvorson, Minneapolis
 Ronald Lawrence Handley, B.A., Minneapolis
 Beverly Nicol Hansen, Minneapolis
 Jean Lois Hudy Harrison, Minneapolis
 John Arthur Hruby, Jackson
 Delores Jean Frizond Karon, St. Paul
 Nora Eileen Keily, Tappen, N.D., WITH DISTINCTION*
 Joyce Macil Kingsley, A.A., St. Paul
 Kay Patricia Kisker, B.A., Edina
 Carolyn Joyce Kliewer, Mountain Lake
 Margaret Jean Koeneman, B.A., M.S., Rochester
 Donald Paul Kohns, B.S.C., Cherokee, Iowa
 Marianne Alethe Kulstad, B.A., Halstad
 Melvin William Larson, B.A., Minneapolis
 Oscar Merlin Lee, B.A., St. Paul
 Aleida Harriet Vaerst Lichthardt, Minneapolis
 Raymond Carl Lundell, St. Paul, WITH DISTINCTION
 Cora Mae Lung, St. Louis Park
 Earl James Lyons, Minneapolis
 William Walter Mamel III, New York, N.Y., WITH DISTINCTION
 Beryl Marie Matson, Minneapolis, WITH DISTINCTION
 John Philip Mc Carthy, St. Paul
 Maureen Florence McDermaid, Mahomed
 Walter Robert Meissner, Jr., Rush City, WITH DISTINCTION
 Carol Lynn Johnson Meyer, Hopkins
 Kenneth William Mohn, A.A., Minneapolis
 Carol H. Johnson Mooney, Maple Plain
 Wilford F. Muller, St. Paul
 Hattie Ann Nalewaja, Browerville, WITH HIGH DISTINCTION
 Charlotte Anne Hedin Nelson, St. Paul
 Dennis Lloyd Nocton, Minneapolis
 Pearl Deloris Odland, Claire City, S.D.
 Goldie Johnson Olson, Minneapolis
 Diane Gail Hageman Patterson, Bloomington
 Mary I. Woolridge Peterson, Minneapolis
 Patricia Jane Piper, Windom
 Susan Ann Rice, Minneapolis
 Colleen Ann McLaughlin Rod, Minneapolis
 Kay Carolyn Sarnecki, St. Paul, WITH DISTINCTION
 Marlene Virginia Saugstad, St. Paul
 Joan Therese Scott, St. Paul
 Carole Elizabeth Riess Shannon, Minneapolis
 Gertrude McCarthy Shevlin, New York, N.Y., WITH DISTINCTION

* Nursing Education Curriculum

Alice Marilyn Sime, Velva, N.D.,
WITH DISTINCTION*
Christian Klebo Skjervold II, West-
brook
Sonja Sigrid Sather Skurdal, Donnelly
Gail Deanna McKenzie Smith, St.
Paul, WITH DISTINCTION
Diane Duncanson Stack, St. Paul
Barbara Ann Strathern, B.A., St. Peter

Arnold Henry Streu, Richardton,
N.D.
Lily-Beth Wahlberg, St. Paul
Joella Bangert Wilson, Minneapolis
Mitchell William Wisniewski, Min-
neapolis
Marlene Mary Wolf, Robbinsdale
Muriel Zieve, B.A., Minneapolis

Master of Education

Phyllis McDougall Lee, B.S., Minne-
apolis

Mary Pollard Onstad, B.S., Minne-
apolis

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Curtis D. Alexander, Minneapolis
Carl Peter Allen, Minneapolis
Gerald Joseph Blees, St. Paul
James Hale Carey, Nashwauk
Wayne Barry Clementson, Minne-
apolis
James Marion Colleran, A.A., Min-
neapolis
Donald Martin Ehlen, Alexandria
John Francis Enghauser, Minneapolis
Herbert Dean Froemming, Alexandria
Richard Leo Gehring, B.S., Minne-
apolis
Leroy Oliver Halvorsen, Swatara
Howard Llewelyn Hanson, Granite
Falls
Marvin LeRoy Heyer, A.A., Faribault
Darrell Leighton Hier, Springfield
Lee J. Himle, Hayfield
Dave LeRoy Hummi, Minneapolis
Donald Duane Janckila, Cokato
Erland Harry Johnson, Minneapolis

Irwin Edward Kallin, St. Paul
Bernard Howard Kaner, Duluth
Norman James Laboe, Minneapolis,
WITH DISTINCTION
John Albin Lauren, St. Louis Park
Peter B. Lloyd, Albert Lea
Dale Roger Lokken, Crosby, N.D.
Robert E. Nilssen, Minneapolis
Walter George Paul, Jr., Sauk Centre
Gerald Ernest Polkinghorne, Minne-
apolis
Fredric Morris Rose, Minneapolis
Gary Rafael Salzman, Dennison
Julia Marie Schillberg, Osceola, Wis.
Clayton Albert Schubert, Minne-
apolis
Alan Algot Sjoberg, Frederic, Wis.
Donald Edwin Thompson, Fergus
Falls
Roger Bruce Wahl, Minneapolis
Donald Morris Wenner, Owatonna
James Ole Winjum, Faribault

* Nursing Education Curriculum

Bachelor of Science in Business

James Thomas Gable, Cambridge
Walter Ferdinand Gensmer, Caledonia
Gordon Harvey Jensen, Edina
David Webber Johnston, Minneapolis
Donald Richard Johnston, Minneapolis
Scott Michael Kennison, Minneapolis

David Lawrence Larson, Westport, Conn.
Gary Allen Mitchell, St. Paul
Robert Charles Norman, Mankato
Raymond Michael Swinton, St. Paul
Robert Francis Thimmesh, Minneapolis

Bachelor of Science in Economics

Richard James Balzer, La Crescent
Richard Charles Heinrich, Paynesville

Truman Lynn Reinking, Minnetonka Village
Frederick Allen Strommer, Winona

LAW SCHOOL

Bachelor of Science in Law

Mark John Vieno, St. Petersburg, Fla.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing**

Judith Gavin VanValkenburg, St. Paul, WITH DISTINCTION

Bachelor of Science in Nursing Administration

Margaret Holland Carlson, Minneapolis

*Ruth W. Felker, Eau Claire, Wis.,
WITH HIGH DISTINCTION*
Lawrence Martin Somers, Hibbing

Bachelor of Science

Myrna Helen Adam, Osceola, Wis.,
Public Health Nursing
Mary Ann Dawson, St. Paul, Public
Health Nursing

Etheldreda Margaret Foy, Minneapolis,
Public Health Nursing
Alice Rachel Imig, Oconto, Wis.,
Public Health Nursing

** These degrees are conferred subject to the satisfactory completion of nursing practice prior to March 17, 1960.

Virginia Geiger Kenyon, Billings,
Mont., Public Health Nursing
Aletha Madeleine Laug, R.N., Minne-
apolis, Public Health Nursing
Mary Angela MacLean, Rochester,
Medical Technology***
Jeanette Dunham Meier, R.N., St.
James, Public Health Nursing

Carol Ann Tupac Millsop, Chisholm,
Physical Therapy, WITH HIGH DIS-
TINCTION
Norma Alvina Petersen, Clinton,
Iowa, Public Health Nursing
Judith Marie Runquist, Chisholm,
Medical Technology***

Master of Public Health

Nora Beauchamp, B.S., Mayaguez,
Puerto Rico

Mavis Carlotta Nymon, B.S., M.S.,
Fargo, N.D.

GRADUATE SCHOOL

Master of Arts

John Edward Adams, St. Paul
B.A. *cum laude* '58, University of Minnesota.
Field of Concentration: Geography.

Firmin Louis Alexander, Jr., St. Paul
B.A. '50, College of St. Thomas. Field of
Concentration: Curriculum and Instruction.

Florentine Peterson Anderson, St.
Paul
B.S. '51, Gustavus Adolphus College. Field of
Concentration: Home Economics Education.

Leah Eleanor Authier, Kennebec, S.D.
B.A. '57, University of South Dakota. Field of
Concentration: Speech.

Paul Anthony Banas, Norwich, Conn.
B.A. '51, University of Connecticut. Field of
Concentration: Psychology.

Harlan Edwin Bauermeister, New
Ulm
B.S. '53, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Jaswant Singh Bedi, Yamuna Nager
District, Pimbala, Punjab
B.A. '43, M.A. '46, M.Ed. '56, Punjab Uni-
versity. Field of Concentration: Educational
Psychology.

Barbara J. Blon, Minneapolis
B.A. *cum laude* '57, University of Minnesota.
Field of Concentration: Music.

Friedrich Leo Bohner, Munich, Ger-
many
B.A. '56, College of St. Thomas. Field of Con-
centration: Economics.

Aage Fredrik Bothner, Oslo, Norway
Graduate '43, University of Oslo. Major: Po-
litical Science. Minor: History. Thesis: Disen-
gagement As Seen From the Federal Republic
of Germany.

Norman Brakken, Appleton
B.S. with distinction '48, University of Min-
nesota. Field of Concentration: Agricultural
Education.

*** These degrees are conferred subject to the satisfactory completion of practical work prior to March 17, 1960.

Paul Raymond Britton, Minneapolis
B.A. '56, Augsburg College. Field of Concentration: Educational Psychology.

David Edson Burrington, Rapid City, S.D.

B.A. '53, University of Minnesota. Field of Concentration: American Studies.

George LaVerne Campbell, Red Wing
B.S. '51, Wisconsin State College (River Falls). Field of Concentration: Educational Administration.

Stephen John Carroll, Jr., Boston, Mass.

B.S. '57, University of California (Los Angeles). Field of Concentration: Industrial Relations.

Donald Harold Carruth, Hopkins

B.S. '40, St. Cloud State Teachers College. Field of Concentration: Educational Administration.

James Francis Coakley, Beaver Falls, Pa.

B.F.A. '55, Carnegie Institute of Technology. Field of Concentration: Speech and Theater Arts.

Lawrence Everet Cripe, Brainerd

B.A. '54, St. John's University (Minnesota). Field of Concentration: Industrial Relations.

Raymond Paul Crosby, Sherburn

B.S. with distinction '51, University of Minnesota. Field of Concentration: Educational Psychology.

Richard Owen Dietz, Mankato

B.S. *magna cum laude* '58, Hamline University. Field of Concentration: Mathematics.

George Barakat Droubie, St. Paul

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

Robert Dykstra, Waldo, Wis.

B.S. '57, Wisconsin State College (River Falls). Field of Concentration: Educational Psychology.

Robert Eugene Erdman, St. James

B.A. '56, Gustavus Adolphus College. Field of Concentration: Physical Education.

John Christopher Farrell, State College, Pa.

B.A. '55, Yale College. Field of Concentration: American Studies.

Jack Lorin Fithian, Minneapolis

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

Sidney Fladeland, Minneapolis

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

Roy Jackson Fletcher, Red Deer, Alberta, Canada

B.A. '57, University of Alberta. Major: Geography. Minor: Geology. Thesis: Potential Settlement Sites in the Central Arctic Archipelago.

Lewis William Forsmark, Bloomington

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

John Robert French, White Bear Lake

B.A. '50, Macalester College. Field of Concentration: Educational Administration.

Richard Solem Froiland, Cottonwood

B.A. '50, St. Olaf College. Field of Concentration: Educational Administration.

William A. Gibson, Austin

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

Jeanne Lorraine Goodson, Evanston, Ill.

B.S. '52, University of Washington. Field of Concentration: Educational Psychology.

Bertrum W. Griffis, Minneapolis

B.A. *magna cum laude* '46, University of Minnesota. Field of Concentration: Psychology.

Geula Gruenberg Grinberg, Haifa, Israel

B.A. '57, Hebrew University of Jerusalem. Field of Concentration: Psychology.

Karl Frederick Grittner, St. Paul

B.A. '45, Hamline University. Field of Concentration: Educational Administration.

Julia Dart Groff, Long Lake

B.S. *cum laude* '54, Macalester College. Field of Concentration: Library Science.

William Edward Guelker, Staples

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

Conrad E. Gustafson, Lindstrom

B.A. '24, Gustavus Adolphus College. Field of Concentration: Educational Administration.

Rosemary Mithun Gustafson, Steen

B.S. '50, University of Minnesota. Field of Concentration: Home Economics Education.

Casper Evan Hanson, St. Paul

B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Edward Leonard Hanson, St. Louis Park

B.A. '49, Macalester College. Field of Concentration: Curriculum and Instruction.

Fred Thomas Indihar, Hibbing

B.S. '53, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

William Bernard Itman, Minneapolis

B.S. '59, University of Minnesota. Field of Concentration: Educational Administration.

Thomas Louis Jackson, DuQuoin, Ill.

B.S. '51, Southern Illinois University. Field of Concentration: Educational Psychology.

Helen Lucille Johnsen, Edina

B.A. '45, Brooklyn College. Field of Concentration: English.

Duane Alward Johnson, Minneapolis

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

Elizabeth Nelson Johnson, St. Paul

B.A. '55, St. Olaf College. Field of Concentration: Library Science.

Kenneth John Johnson, St. Paul

B.A. '49, Macalester College. Field of Concentration: Educational Psychology.

Paul Klath Johnson, Minneapolis

B.A. *magna cum laude* '53, St. Olaf College. Major: Philosophy. Minor: Political Science. Thesis: Religion and the Verifiability Principle.

Leah Crotty Jones, St. Louis Park

B.S. '56, University of Minnesota. Field of Concentration: Child Development and Welfare.

Eldon LeRoy Katter, Stendal, Ind.

B.A. '57, Evansville College. Field of Concentration: Art Education.

Richard Joseph Kieffer, Olivia

B.S. with distinction '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Samira Hishmat Kirolos, Cairo, Egypt

B.A. '58, American University at Cairo. Field of Concentration: Speech and Theater Arts.

Alice Hempstead Knauss, St. Paul

B.A. '24, Jamestown College; B.S. in L.S. '47, College of St. Catherine. Field of Concentration: French.

Karlynn Rose Kohrs, Hutchinson

B.A. *cum laude* '58, Macalester College. Field of Concentration: Speech and Theater Arts.

James Henry Koplin, Detroit Lakes

B.A. *cum laude* '55, University of Minnesota. Field of Concentration: Psychology.

Alfred Krinke, Jr., Richfield

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

Louis Everett Larson, McDougal, Alaska

B.A. '42, Gustavus Adolphus College. Field of Concentration: Geography.

Yvonne Carolyn Lueck, Minneapolis

B.S. '52, University of Minnesota. Field of Concentration: Educational Psychology.

Chris John Luneski, Minneapolis

B.A. with honors '56, Johns Hopkins University. Field of Concentration: Business Administration.

Roderick Mac Donald, Excelsior

B.A. '53, Macalester College. Field of Concentration: Library Science.

Barbara Anne Mattill, Hopkins

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

Joseph Frank Mayasich, Eveleth

B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Mildred Gurkin McClosky, Minneapolis

B.A. '41, New Jersey State Teachers College (Upper Montclair). Field of Concentration: Speech and Theater Arts.

Margaret Catherine Mikkelsen, St. Paul

B.S. '51, College of St. Scholastica. Field of Concentration: Educational Psychology.

Courtland Terrell Milloy, Shreveport, La.

B.S. '49, Tuskegee Institute. Field of Concentration: Industrial Education.

Daniel Joseph Moore, Jr., Rochester

B.S. '50, Bemidji State Teachers College. Field of Concentration: Educational Psychology.

Dale Edward Morley, New Auburn, Wis.

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

John Howells Morris, Hopkins

B.S. '44, West Chester State Teachers College. Field of Concentration: Educational Psychology.

Gordon Lee Nelson, Minneapolis

B.A. *magna cum laude* '58, University of Minnesota. Field of Concentration: Political Science.

Wallace Orval Nelson, Minneapolis

B.S. '48, University of Minnesota. Field of Concentration: Industrial Education.

Orpha Lydia Neseth, Kenyon

B.A. *cum laude* '39, St. Olaf College. Field of Concentration: History.

Phillip Valentine Nichols, Steger, Ill.

B.A. '52, Oberlin College. Field of Concentration: Music.

Signe Tronborg Nielsen, Estherville, Iowa

B.S. '53, Iowa State College. Field of Concentration: Home Economics.

Helen O'Brien, Jackson Heights, N.Y.

B.A. '56, Mt. Holyoke College. Major: English. Minor: Classics. Thesis: Matthew Arnold and William Butler Yeats.

Katherine Margaret O'Donnell, Poughkeepsie, N.Y.

B.S. '55, State University of New York College for Teachers (Buffalo). Field of Concentration: Curriculum and Instruction.

Harold John Palm, St. Cloud

B.S. '52, St. Cloud State Teachers College. Field of Concentration: Educational Psychology.

Donald Barton Paul, Grand Forks, N.D.

B.S. '53, University of North Dakota. Field of Concentration: Music Education.

Thomas Aleck Pavelich, Crosby

B.S. '54, St. Cloud State Teachers College. Field of Concentration: Educational Administration.

Ralph Edwin Pearson, St. Paul

B.A. '49, Augsburg College; B.S. '49, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Paul Bodholdt Pedersen, Ringsted, Iowa

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

Harry Edgar Peirce, Jr., Winona

B.S. '50, University of Minnesota. Field of Concentration: Agricultural Education.

Robert Elvin Plucker, Winona

B.S. '50, South Dakota State College of Agriculture and Mechanic Arts. Field of Concentration: Music.

Fanye Ranger Porter, Jackson, Tenn.

B.S. '49, Lincoln University. Field of Concentration: Educational Psychology.

Shirley Mae Price, Minneapolis

B.S. with high distinction '51, University of Minnesota. Field of Concentration: Physical Education.

Benjamin Harvey Rank, Austin

B.S. '52, LaCrosse State Teachers College. Field of Concentration: Educational Administration.

Frances Louise Reed, Duluth

B.A. *magna cum laude* '58, College of St. Scholastica. Field of Concentration: English.

Barbara Joyce Rollins, Mitchell, S.D.

B.A. *cum laude* '58, St. Olaf College. Field of Concentration: Library Science.

Judith Anne Roser, Beverly Shores, Ind.

B.A. '57, De Pauw University. Major: Child Development and Welfare. Minor: Psychology. Thesis: The Relationship of Motor Abilities and Peer Acceptance of Mentally Retarded Children.

Miriam Mindla Roshwald, Israel

B.A. '54, Hebrew University of Jerusalem. Major: English. Minor: Philology. Thesis: The Image of "The Waste Land" in the Works of William Faulkner.

Tuntemeke Messaka Sanga, Bulongwa, Njombe, Tanganyika, East Africa

B.A. '58, Gustavus Adolphus College. Major: International Relations. Thesis: Constitutional Changes in Tanganyika.

Norman Bernard Schmidt, Minneapolis

B.A. '49, Macalester College. Field of Concentration: Curriculum and Instruction.

George Alfred Schoen, Freeborn

B.S. '53, University of Minnesota. Field of Concentration: Agricultural Education.

Vernon Arthur Schultz, West St. Paul

B.S. '52, University of Minnesota. Field of Concentration: Physical Education.

Jack Allan Schwandt, Enderlin, N.D.

B.A. '52, Concordia College. Major: Philosophy. Minor: English. Thesis: Alienation and Reconciliation in the Works of Soren Kierkegaard.

Delbert Charles Schwieger, Fairmont

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

Helen Winter Sekely, Minneapolis

B.A. '50, University of California (Los Angeles). Field of Concentration: Educational Psychology.

Marion Elvina Sletwick, Bemidji

B.S. '44, Bemidji State College. Field of Concentration: Library Science.

Yung Sook Song, Seoul, Korea

B.A. '50, Ewha Woman's University. Field of Concentration: English.

Harold Otto Swanson, Milwaukee, Wis.

B.S. with distinction '57, University of Minnesota. Field of Concentration: Educational Administration.

Joyce Lund Tester, Minneapolis

B.S. '55, University of Minnesota. Field of Concentration: Home Economics Education.

Andrew Thompson, Tacoma, Wash.

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

Paul James Thompson, New Richland

B.A. '53, Luther College. Field of Concentration: Economics.

Phyllis Darlene Vosbeck, Mankato

B.A. *cum laude* '58, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: An Exploratory Study of the Effects of Counseling.

Raymond Otis Waldon, White Bear Lake

B.S. '54, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction.

Marjorie Jean Wall, Davenport, Iowa

B.A. '58, Grinnell College. Field of Concentration: American Studies.

Hannah Kristine Walseth, Minneapolis

B.S. '42, University of Minnesota. Field of Concentration: Educational Psychology.

Chia Ku Whang, Kiangsu, China
B.A. '51, National Taiwan University. Major: Economics. Minor: Political Science. Thesis: The Foreign Trade of Taiwan After the Second World War.

Yeong-Her Yeh, Tainan City, Formosa
B.A. '55, National Taiwan University. Field of Concentration: Economics.

Master of Arts in Public Administration

Richard Thomas Anglim, Maplewood
B.A. '52, University of Minnesota. Major: Public Administration. Thesis: The Mobile Support Area—A Study of the Field Service of the Minnesota Department of Civil Defense.

Donald George Brauer, Edina
B.S. '52, Iowa State College. Major: Public Administration. Thesis: A Personnel Program for the Village of Edina, Minnesota.

Jaipaul, New Delhi, India
B.A. '50, University of Punjab; M.A. '58, University of Nebraska. Field of Concentration: Public Administration.

Tae Choon Kim, Seoul, Korea
B.Com. '55, Seoul National University. Field of Concentration: Public Administration.

James Julian Solem, Fennimore, Wis.
B.A. '58, Luther College. Major: Public Administration. Thesis: An Administrative History of the Minnesota Fair Employment Practices Commission.

Master of Business Administration

Antonio Salim Salem, Manila, Philippines
B.Sc. '56, Adamson University. Field of Concentration: Business Administration.

Master of Forestry

William Raymond Miles, St. Paul
B.S. '51, University of Minnesota. Field of Concentration: Forestry.

Donald William Peterson, Little Falls
B.S. '51, University of Minnesota. Field of Concentration: Forestry.

Master of Science

Dorothy Carol Anderson, Starbuck
B.S. with distinction '41, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: A Study of Hydrogen Sulfide Formation from L-Cysteine by *Escherichia coli* (Crookes).

Dwight Lyman Anderson, Dassel
B.A. '57, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Genetics of the Streptomycetes: Preferential Compatibility in *Streptomyces coelicolor*.

Henry William Anderson, Jr., St. Paul
B.A. '51, Macalester College; B.S.Ed. '53, University of North Dakota. Major: Geology. Minor: Botany. Thesis: The Conodont Fauna of the Lower Part of the Decorah Shale in the Upper Mississippi River Valley.

Roger Lee Arnoldy, Minneiska
B.S. *summa cum laude* '56, St. Mary's College (Minnesota). Major: Physics. Minor: Mathematics. Thesis: A Study of an Integrating Ionization Chamber as a Detector of Neutrons in the Cosmic Radiation.

Frank LeRoy Baiamonte, Ault, Colo.
B.S. '54, University of Colorado. Field of Concentration: Physics.

Ernest Eino Banttari, Hibbing

B.S. with distinction '54, University of Minnesota. Major: Plant Pathology. Minor: Forestry. Thesis: The Cause and Transmission of Blue Dwarf of Oats and Two Kinds of Dwarfing in Barley.

Frederick Donald Blake, Cambridge, Wis.

B.A. '57, Ripon College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Reactions of Diazocompounds with α , β -unsaturated Sulfones.

Han Iense Bonne, Winnipeg, Manitoba, Canada

B.S.(C.E.) '58, University of Wisconsin. Field of Concentration: Public Health.

William John Boylan, Bozeman, Mont.

B.S. '52, Montana State College. Major: Animal Husbandry. Minor: Statistics. Thesis: The Inheritance of Prolificacy in Swine.

Jackson Radcliffe Carter, Jr., St. Paul

B.Met.E. '52, University of Minnesota. Major: Metallurgy. Minor: Electrical Engineering. Thesis: Precipitation of Lithium in Germanium.

George Allen Champine, Fairmont

B.S. with distinction '56, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Low Temperature Demonstration Apparatus.

Byung Ryul Cho, Seoul, Korea

D.V.M. '50, Seoul National University. Field of Concentration: Veterinary Bacteriology.

William Alfred Dolid, New York City, N.Y.

B.A. *cum laude* '55, Alfred University. Major: Mathematics. Minor: Philosophy. Thesis: Stationary Phase in Two Variables.

Kenneth Theodore Erpelding, North St. Paul

B.E.E. with high distinction '58, University of Minnesota. Field of Concentration: Business Administration.

Ernest James Harris, North Little Rock, Ark.

B.S. '51, Arkansas Agricultural, Mechanical and Normal College. Major: Entomology. Minor: Botany. Thesis: The Biology and Control of the Poplar Willow Borer (*Sternochetus lapathi* L.).

Kyu Sook Her, Korea

M.D. '50, Kyungpook University. Major: Anatomy. Minor: Zoology. Thesis: Experimental Study of the Emptying Time of the Stomach in the Suckling Rat.

Richard John Herder, Red Wing

B.A.B.A. '58, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Retail Feed Credit in Minnesota.

Iraj Jahanbagloo, Tehran, Iran

B.S. '56, University of Tehran. Field of Concentration: Geology.

Yung Seong Jeon, Seoul, Korea

D.V.M. '51, M.S. '55, Seoul National University. Field of Concentration: Veterinary Bacteriology.

William Wayne Johnson, Minneapolis

B.S. with distinction '57, University of Minnesota. Field of Concentration: Zoology.

Martin Adams Kalnins, Barrington, Ill.

B.S. '57, North Dakota Agricultural College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Reactions of Vinyl Sulfides with Butyllithium.

Charles Donald Kavaloski, South St. Paul

B.S. with distinction '57, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Electron Beam Light Pulser.

Kenneth Lee Klierer, Mountain Lake

B.S. with high distinction '57, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of Magnesium Oxide as a Secondary Emitting Material.

Philip Klubes, Bayside, N.Y.

B.S. '56, Queens College. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies on S-(1,2-Dichlorovinyl)-L-Cysteine and Related Compounds.

Genell Lavonne Knatterud, Minneapolis

B.A. '52, Macalester College. Field of Concentration: Biostatistics.

Shri Krishan, Delhi, India

B.Sc.(Hons.) '52, M.Sc. '53, Panjab University. Field of Concentration: Geophysics.

John Leo Kroening, Minneapolis

B.S. '56, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Atmospheric Ionization.

Frances Ann Larkin, Hillsboro, Ohio

B.S. '52, Ohio State University. Major: Home Economics. Minor: Education. Thesis: The Effect of Substituting Animal Protein for an Equivalent Amount of Plant Protein on Nitrogen Balance in College Women on a Low Protein Diet.

Leonard Louis Larson, Minneapolis

B.S. '58, Macalester College. Field of Concentration: Business Administration.

Lin-chuan Lee, Peiping, China

B.S. '55, Taiwan Provincial College of Agriculture. Field of Concentration: Agricultural Economics.

Robert Albin Lenberg, Minneapolis

B.A. '55, Brigham Young University. Field of Concentration: Business Administration.

Richard William Lutey, St. Paul

B.S. '57, Michigan State University. Major: Plant Pathology. Minor: Agricultural Biochemistry. Thesis: Studies on Septoria Leaf Blotch—with Special Reference to Epidemiology and the Production of Artificial Epidemics.

Barry Thomas Lynch, Pennant Hills, Australia

B.S.A. '53, University of Sydney. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: The Effect of Storage Atmosphere on the Fate of Individual Sugars in Deteriorating Wheat.

Louis Arthur Mattson, Duluth

B.A. '57, University of Minnesota. Major: Geology. Minor: Geophysics. Thesis: Structure and Stratigraphy of the Thomson Formation, Carlton-Thomson Area, Carlton County, Minnesota.

George Douglas McDonald, Minneapolis

B.S. in Econ. '27, University of Pennsylvania. Field of Concentration: Business Administration.

David F. McIntire, Duluth

B.A. *cum laude* '55, University of Minnesota. Field of Concentration: Business Administration.

Curtis Lynea Meinert, Sleepy Eye

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

Kwang-Shik Min, Seoul, Korea

B.S. '51, Seoul National University. Field of Concentration: Physics.

Barbara Ann North, Bloomsburg, Pa.

B.S. '56, Hood College. Major: Home Economics. Minor: Physiological Chemistry. Thesis: Manganese Metabolism in College Women.

Tora Hovde Oterholt, Oslo, Norway

B.S. '43, Norwegian State College of Home Economics; B.S. '54, Norwegian State College of Agriculture. Field of Concentration: Home Economics.

Dorothy Chao-Hwa Pan, Norman, Okla.

B.S. '57, University of Oklahoma. Field of Concentration: Analytical Chemistry.

Harvey Lee Patten, Morristown, N.J.

B.A. '55, Rutgers University. Major: Geology. Minor: Botany. Thesis: A Postglacial Pollen Diagram from Lake Carlson, Dakota County, Southern Minnesota.

Ralph Kohler Quaschnick, Herreid, S.D.

B.A. '57, University of Minnesota. Major: Geology. Minor: Geophysics. Thesis: The Geology of the Marine Quadrangle and the Falls Creek Area.

Richard Ralph Ries, New Ulm

B.S. *maxima cum laude* '57, St. Edward's University. Major: Physics. Minor: Mathematics. Thesis: The Atomic Masses of the Stable Isotopes of Krypton.

Donald Wayne Rose, Salt Lake City,
Utah
B.S. '52, Utah State Agricultural College.
Field of Concentration: Animal Husbandry.

Egon Theodor Ruf, Mannheim, Ger-
many

B.A. '57, University of Connecticut. Major:
Physical Chemistry. Minor: Organic Chem-
istry. Thesis: Intensity Measurements on Meth-
ane and Its Deuterated Isotopes.

Jerome Odell Sather, Minneapolis
B.S. '57, University of Minnesota. Major:
Mathematics. Minor: Philosophy. Thesis: An
Asymptotic Expansion of a Function Defined
by a Double Integral.

Chaudhry Muhammad Shafi, Kala
Shak Kaku, W. Pakistan
B.Sc.Ag. '41, M.Sc. '51, Panjab University. Ma-
jor: Plant Genetics. Minor: Plant Pathology.
Thesis: Inheritance and Heritability of Height
and Lodging in Three Barley Crosses.

John Joseph Traxler, Marshall
B.A. '57, St. John's University (Minnesota).
Field of Concentration: Physics.

Jerome Bernard Weber, Kilkenny
B.S. '57, University of Minnesota. Major: Soils.
Minor: Public Health. Thesis: The Effect of
Fertilizer on Yield and Chemical Composition
of Soybeans.

Master of Science in Aeronautical Engineering

Chi-sing Chang, Formosa, China
B.S. '56, Taiwan College of Engineering. Field
of Concentration: Aeronautical Engineering.

Master of Science in Agricultural Engineering

Wan-wang Hu, Yunting, Fukien,
China
B.S. '56, National Taiwan University. Field of
Concentration: Agricultural Engineering.

Deane Monroe Manbeck, Little Falls
B.Ag.E. '54, University of Minnesota. Field
of Concentration: Agricultural Engineering.

Master of Science in Chemical Engineering

Hans Kare Fauske, Bergen, Norway
Graduate '57, Bergen Technic School. Major:
Chemical Engineering. Minor: Mathematics.
Thesis: Analysis of Burnout in Two-Phase
Flow.

Anders Kvamme, Voss, Norway
B.A. *magna cum laude* '55, Augsburg College.
Major: Chemical Engineering. Minor: Math-
ematics. Thesis: Heat Transfer in Two-Phase
Flow.

William Arthur Maberry, Midland,
Mich.
B.S. with high distinction '58, University of
Minnesota. Major: Chemical Engineering.
Minor: Physical Chemistry. Thesis: The Ef-
fects of Vibration on Mass Transfer in Wetted-
Wall Columns.

Master of Science in Civil Engineering

Paul John Diethelm, Roseville
B.S. '57, University of Minnesota. Field of Concentration: Civil Engineering.

Paul Vincent Knopp, Madison, Wis.
B.S. '56, University of Minnesota. Major: Civil Engineering (Sanitary Engineering). Minor: Civil Engineering (Hydraulic Engineering). Thesis: Factors Influencing the Continuous Separation and Concentration of Anaerobic Sludge.

Chin Mih, Taipei, Formosa, China
B.S. '54, B.S.A. '55, National Taiwan University. Field of Concentration: Civil Engineering.

Bangalore M. Rajasekhara, Bangalore, India

B.Sc. '51, B.E.(Civil) '55, University of Mysore. Major: Civil Engineering (Hydromechanics). Minor: Civil Engineering (Structural Engineering). Thesis: Experimental Study of Decay of Discharge Vortices.

Sigifredo Trivino, Facatativa, Colombia

C.E. '56, National University of Colombia. Field of Concentration: Civil Engineering.

Tawfik Akram Uwaydah, Tripoli, Lebanon

B.S. '58, Tri-State College. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Richard Elgin Stallard, Minneapolis

B.S. '56, D.D.S. '58, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Vital Staining of the Periodontium of White Mice.

Master of Science in Electrical Engineering

Keh-Kun Choi, Seoul, Korea
B.S. in Eng. '48, M.S. '50, Seoul National University. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Comparative Investigation of Vacuum-Tube and Transistor Summing Amplifiers.

George Gabriel Goetz, Minneapolis
B.S. with high distinction '56, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Influence of Cesium on the Secondary Emission from MgO Films.

John Patrick Hanton, St. Paul
B.S. with high distinction '57, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Magnetic Spectrum of Some Gamma Ferric Oxide and Magnetite Powders.

Chun Hsu, Peiping, China

B.S. '56, National Taiwan University. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of Stabilization to an Amplidyne Feedback Control System.

Waman Sadasheo Khokley, Bilaspur, India

B.E.(Hons.) '55, University of Saugar. Field of Concentration: Electrical Engineering.

P. J. Pushpavati, Pedaravur, Andhra, India

B.Sc. '52, M.Sc. '54, Andhra University. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Low Noise Wide Band Transistor Amplifier.

Mark William Smith, LaCrosse, Wis.

B.S. with distinction '57, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Acoustic Signal Detection in Turbulent Airflow.

Master of Science in Mechanical Engineering

Aemer Delano Anderson, Milaca

B.S. with high distinction '56, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Investigation of the Flow Field and Heat Transfer Associated with a Single Isothermal Disk Rotating in Still Air.

Larry William Carlson, Grand Rapids

B.S. with distinction '57, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Experimental Friction Factors for Fully Developed Turbulent Flow in Smooth Triangular Ducts.

Floyd Walter Larsen, Minnetonka Beach

B.S. with distinction '57, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Effect of Aspect Ratio and Tube Orientation on Free Convection Heat Transfer to Water and Mercury in Enclosed Circular Tubes.

Allan Einar Pearson, Minneapolis

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

Sherwood Guy Talbert, St. Paul

B.S. with distinction '57, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Experimental Investigation of the Directional Emissivity Characteristics of Porous Metals.

Master of Science in Medicine

Madison Julius Cawein III, Lexington, Ky.

B.A. '49, Harvard University; M.D. '54, Tulane University. Major: Medicine. Minor: Hematology. Thesis: A Study of the Mechanism of the Anemia of Liver Disease Utilizing Radioactive Chromium.

Master of Science in Metallurgical Engineering

Yeun Shik Kim, Inchon, Korea

B.E. '56, Seoul National University. Major: Metallurgical Engineering. Minor: Geology. Thesis: Some Surface Properties and Flotation Characteristics of Magnetite.

Master of Science in Orthopedic Surgery

John Joseph McLeod, Jr., Grand Forks, N.D.

M.D. '47, Marquette University. Major: Orthopedic Surgery. Minor: Surgical Pathology. Thesis: Fibrosarcoma of Bone.

James Bannerman Troup, Aberdeen, Scotland

M.B., Ch.B. '51, Aberdeen University. Major: Orthopedic Surgery. Minor: Surgical Pathology. Thesis: The Significance of Benign Giant Cells in Osteogenic Sarcoma.

Master of Science in Psychiatry

Joyce Rich Henrie, Rochester

B.S. '51, M.D. '55, University of Utah. Major: Psychiatry. Minor: Basic Neurological Sciences. Thesis: Alteration in Consciousness Produced by Subanesthetic Concentrations of Nitrous Oxide.

Master of Science in Radiology

Brian Hugh Jarchow, Chicago, Ill.

B.S. '49, Loyola University; M.D. '53, Stritch School of Medicine. Major: Radiology. Minor: Pathology. Thesis: The Roentgenologic Aspects of Meningiomas in the Posterior Fossa.

Master of Science in Surgery

Martin Y. Laberge, Quebec, Canada

B.A. '46, Seminaire de Quebec; M.D. '51, Laval University. Major: Surgery. Minor: Pathology. Thesis: Primary Carcinomas of the Splenic Flexure of the Colon.

Master of Science in Urology

Henry Grady Edwards, Terre Haute,
Ind.

B.S. '49, University of Miami; M.D. '53, University of Georgia. Major: Urology. Minor: Pathology. Thesis: Renal Hemangiomas.

Roger Verner Haglund, Duluth

B.A. '50, B.S. '52, M.D. '54, University of Minnesota. Major: Urology. Minor: Pathology. Thesis: The Relationship Between Inlying Urethral Catheters and Bacteriuria in Patients Subjected to Transurethral Operations.

Master of Social Work

Delores Lorraine Randby, St. James

B.A. '51, St. Olaf College. Field of Concentration: Social Work.

Certificate of Specialist in Education

Alton E. Lindstrom, St. Louis Park

B.A. '53, Gustavus Adolphus College; M.A. '56, University of Minnesota. Field: School Psychological Services.

Doctor of Philosophy

Marcus Alexis, Brooklyn, N.Y.

B.A. '53, Brooklyn College; M.A. '54, Michigan State University. Major: Economics. Minor: Business Administration. Thesis: Racial Differences in Consumption and Automobile Ownership. Major Adviser: Prof. R. J. Holloway.

Redfield Wilmerton Allen, Silver Spring, Md.

B.S. '43, M.S. '49, University of Maryland. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Measurements of Friction and Local Heat Transfer for Turbulent Flow of a Variable Property Fluid (Water) in a Uniformly Heated Tube. Major Adviser: Prof. E. R. C. Eckert.

Raymond Eugene Anderson, Buffalo

B.S. cum laude '46, M.A. '50, University of Minnesota. Major: Speech. Minor: Psychology. Thesis: Kierkegaard's Theory of Communication. Major Adviser: Prof. D. K. Smith.

Edward Walton Berndt, Milwaukee, Wis.

B.S. '51, University of Wisconsin. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Synthesis of Some Triptycene Derivatives Substituted at the Bridgehead. Major Adviser: Prof. C. F. Koelsch.

Donald Bryan Bonstrom, St. Paul

B.E.E. '51, M.S. in E.E. '55, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Magnetic Resonance Properties of Magnetite Below Its Transition Temperatures. Major Adviser: Prof. A. H. Morrish.

Brother Herman Raphael Erler, Wiconna

B.A. '38, St. Mary's College (Minnesota); M.A. '42, Loyola University (Illinois). Major: American Studies. Thesis: A Critical Analysis of the New History. Major Adviser: Prof. C. A. Chambers.

Orvin Charles Burnside, Hawley

B.S. '54, North Dakota Agricultural College; M.S. '58, University of Minnesota. Major: Agronomy. Minor: Agricultural Botany. Thesis: The Influence of Environmental Factors on the Phytotoxicity and Dissipation of Simazin. Major Adviser: Prof. A. R. Schmid.

Herbert L. Carson, Lincoln, Neb.

B.A. '53, University of Pittsburgh; M.A. '55, Columbia University. Major: Speech and Theater Arts. Minor: English. Thesis: Modern Tragedy and Its Origins in Domestic Tragedy: A Study of Selected English and American Domestic Tragedies from Elizabethan to Modern Times. Major Adviser: Prof. F. M. Whiting.

Harley Duane Christiansen, Minneapolis

B.S. '52, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Relationship of Several Self-Other Indices to Claimed and Measured Interests of Vocational High School Seniors. Major Adviser: Prof. C. G. Wrenn.

John Jefferson Clark, Onset, Mass.

D.V.M. '53, University of Georgia. Major: Veterinary Pathology. Minor: Bacteriology. Thesis: Experimental Porcine Leptospirosis. Major Adviser: Prof. J. H. Sautter.

Thomas Malcolm Coakley, Hamilton, Ohio

B.A. '51, Miami University; M.A. '53, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Political Position and Domestic Policy of Robert Cecil, First Earl of Salisbury, 1603-1612. Major Adviser: Prof. D. H. Willson.

Timothy Durward Cotton, Houston, Tex.

B.S. '40, Prairie View State Normal and Industrial College; M.S. '46, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: A Study of Avian Trypanosomes. Major Adviser: Prof. F. G. Wallace.

Patricia Ann Crawford, Ontario, N.Y.

B.A. '52, M.A. '54, University of Rochester. Major: Philosophy. Minor: Psychology. Thesis: The Concept of a Physical Object—Its Role in Thought and Language. Major Adviser: Prof. W. S. Sellars.

William John Andrew Culmer, Minneapolis

B.A. magna cum laude '35, M.A. '38, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Convergent Solutions of Ordinary Linear Homogeneous Difference Equations in the Neighborhood of an Irregular Singular Point. Major Adviser: Prof. H. L. Turrittin.

Roger Eichhorn, St. Paul

B.E.E. '53, M.S. in M.E. '55, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Analytical Investigation of Combined Free and Forced Convection and a New Method to Measure Free Convection Velocity Profiles. Major Adviser: Prof. E. R. C. Eckert.

Thomas Harley Fife, Kankakee, Ill.

B.S. '55, University of Illinois. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Stereochemistry of 1,2-Cyclohexanediols. Major Adviser: Prof. S. W. Fenton.

Milton Harold Fischer, Staten Island, N.Y.

B.A. '50, Lafayette College. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Part I. Graft Polymerization and Transglycosidation of Polysaccharides; Part II. The Bound Carbohydrate Constituents of Soybean Lecithin; Part III. The Isolation of Isomaltose From Enzyme Degraded Starch. Major Adviser: Prof. Fred Smith.

Robert Edgar Forman, Minneapolis

B.A. *cum laude* '48, M.A. '49, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: The Ideology of Mobility: Some Attitudinal Aspects of Migration. Major Adviser: Prof. R. G. Francis.

Richard Romaine Fox, Manchester, Conn.

B.S. with honors '56, University of Connecticut; M.S. '58, University of Minnesota. Major: Animal Husbandry. Minor: Dairy Husbandry. Thesis: Relations Between Backfat Thickness and Other Economic Traits in Swine. Major Adviser: Prof. R. E. Comstock.

Johan Giesbrecht, Morden, Manitoba, Canada

B.S.A. '48, M.S. '52, University of Manitoba. Major: Plant Genetics. Minor: Plant Pathology. Thesis: The Inheritance of Maturity in *Zea mays*. Major Adviser: Prof. E. H. Rinke.

Don Dale Gilbert, Bakersfield, Calif.

B.S. '56, University of California (Berkeley). Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Benzene Extraction of Tin (IV) Iodide. Major Adviser: Prof. E. B. Sandell.

Morris Irving Goldman, Wakefield, R.I.

B.A. '49, Syracuse University; M.A. '52, University of Minnesota. Major: English. Minor: Art. Thesis: Virginia Woolf and the Art of Criticism. Major Adviser: Prof. W. V. O'Connor.

Byron Eugene Harrell, Vermillion, S.D.

B.A. '47, M.A. '51, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: The Ecological Biogeography of the Birds of the Cloud Forests of Northern Middle America. Major Adviser: Prof. D. W. Warner.

George William Hay, Winnipeg, Manitoba, Canada

B.Sc.(Hons.) '51, M.Sc. '52, University of Manitoba. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Part I: The Constitution of the Oat Hull Hemicellulose; Part II: Electrolysis in the Study of Carbohydrate Compounds. Major Adviser: Prof. Fred Smith.

George Clifford Helling, Northfield

B.A. *summa cum laude* '48, Hamline University; M.A. '51, University of Minnesota. Major: Sociology. Minor: Political Science. Thesis: A Study of Turkish Values by Means of Nationality Stereotypes. Major Adviser: Prof. A. M. Rose.

David Sprague Herreshoff, Detroit, Mich.

B.A. '52, University of Akron; M.A. '57, University of Minnesota. Major: American Studies. Thesis: Americanizers of Marx. Major Adviser: Prof. M. Q. Sibley.

David Lee Horton, St. Paul

B.A. '55, M.A. '57, University of Minnesota. Major: Psychology. Minor: Biostatistics. Thesis: Response Chaining Paradigms for Transfer in Paired Associate Learning. Major Adviser: Prof. J. J. Jenkins.

John Vernon Jensen, Minneapolis

B.A. '47, Augsburg College; M.A. '48, University of Minnesota. Major: Speech. Minor: History. Thesis: The Rhetoric of Thomas H. Huxley and Robert G. Ingersoll in Relation to the Conflict Between Science and Theology. Major Adviser: Prof. D. K. Smith.

Samuel Robert Keys, DeKalb, Ill.

B.A. '48, Olivet Nazarene College; M.A. '51, University of Kansas City. Major: Education. Minor: Educational Administration. Thesis: A Study of Expected and Described Leader Behavior of Principals of Senior High Schools in the State of Minnesota. Major Advisers: Profs. W. R. Lane and E. P. Torrance.

Chao Yao Koh, Canton, China

B.S. in M.E. '51, Taiwan University; M.S. in M.E. '53, University of Washington. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Experimental Investigations of the Pressure Distribution and Heat Transfer for Flow Over Concave Hemispheres and Cylindrical Cups. Major Adviser: Prof. J. P. Hartnett.

Kenneth Kustin, Cambria Heights, N.Y.

B.S. *cum laude* '55, Queens College. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: The Cobalt-60 Gamma Irradiation of Aqueous Nitrate Solutions. Major Adviser: Prof. P. R. O'Connor.

Martin Laakso, River Falls, Wis.

B.E. with honor '36, Winona State Teachers College; M.S. '50, Montana State College. Major: Economic Zoology (Fisheries). Minor: Botany. Thesis: The Influence of Population Density and Harvesting Techniques on Growth of the Common Guppy *Lebistes reticulatus*. Major Adviser: Prof. L. L. Smith.

Jerry McHugh Law, Baton Rouge, La.

B.S. '42, M.S. '48, Louisiana State University. Major: Agricultural Economics. Minor: Economics. Thesis: The Development of a Classification of Market Structures for Agriculture. Major Adviser: Prof. W. W. Cochrane.

Ho Wang Lee, Seoul, Korea

M.D. '54, Seoul National University; M.S. '57, University of Minnesota. Major: Bacteriology. Minor: Public Health. Thesis: Studies on Immunity to Japanese Encephalitis Virus. Major Adviser: Dr. W. F. Scherer.

George Lewis Levine, New York, N.Y.

B.A. '52, New York University; M.A. '53, University of Minnesota. Major: English. Minor: Philosophy. Thesis: Determinism in the Novels of George Eliot. Major Adviser: Prof. G. R. Stange.

Raymond Gates Malbone, Louisville, Ky.

B.A. '50, University of Louisville; M.A. '51, University of Minnesota. Major: English. Minor: Philosophy. Thesis: George Gissing: Novelist. Major Adviser: Prof. G. R. Stange.

Francis Scott Mathews, Mill Valley, Calif.

B.S. '55, University of California. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: The Crystal and Molecular Structure of $C_8H_8AsNO_8$. Major Adviser: Prof. W. N. Lipscomb.

Richard August Narváez, St. Paul

B.S.Ed. '43, Concordia Teachers College (Nebraska); M.A. '48, University of Minnesota. Major: Spanish. Minor: Linguistics. Thesis: A Descriptive Analysis of Word Formation in Old Spanish. Major Advisers: Profs. D. C. Swanson and W. T. Pattison.

Gertrud Rosa-Maria Neuwirth, Graz, Austria

Graduate '53, University of Graz. Major: Sociology. Minor: Economics. Thesis: Friendship Patterns and Organizational Participation: A Study in Ambience. Major Adviser: Prof. Theodore Caplow.

Daryl Lee Ostercamp, Minneapolis

B.A. *magna cum laude* '53, St. Olaf College; M.S. '55, University of Wisconsin. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Synthesis of Angularly Substituted Octa- and Decahydroquinolines. Major Adviser: Prof. F. C. Koelsch.

James George Palacas, Brighton, Mass.

B.A. *cum laude* '52, Harvard College; M.S. '57, Pennsylvania State University. Major: Geology. Minor: Agricultural Biochemistry. Thesis: Geochemistry of Carbohydrates. Major Advisers: Profs. F. M. Swain and Fred Smith.

Narayan Ganesh Patel, Bombay, India

B.Sc. '50, University of Bombay; M.Sc. '52, University of Poona. Major: Entomology. Minor: Agricultural Biochemistry. Thesis: Toxicity Studies of Some Proteolytic Enzymes to the House Fly (*Musca domestica* L.). Major Adviser: Prof. L. K. Cutkomp.

James Patrick Quirk, St. Paul

B.B.A. '48, M.A. '49, University of Minnesota. Major: Economics. Minor: Statistics. Thesis: Default Risk and the Loan Market. Major Adviser: Prof. Leonid Hurwicz.

Jasti Venkata Rattayya, India

B.Sc. '48, Andhra University; D.M.I.T. '52, Madras Institute of Technology; M.S. in Aero. E. '56, University of Minnesota. Major: Mechanics and Materials. Minor: Aeronautical Engineering. Thesis: Supersonic Speed Flutter Analysis of Circular Panels with Edges Elastically Restrained Against Rotation. Major Adviser: Prof. L. E. Goodman.

Clemens Allen Roehl, Wayzata

B.A. *magna cum laude* '55, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: The Effects of Frustration on the Amplitude of a Simple Motor Response. Major Adviser: Prof. William Schofield.

Harold John Rogge, Winona

B.E. '33, Winona State Teachers College; M.Ed. '52, Ohio University. Major: Educational Psychology. Minor: Education. Thesis: A Study of the Relationships of Reading Achievement to Certain Other Factors in a Population of Delinquent Boys. Major Adviser: Prof. M. C. Reynolds.

Robert Theodore Sandin, Minneapolis

B.A. '49, Bethel College; M.A. '56, University of Minnesota. Major: Philosophy. Minor: Political Science. Thesis: Axel Hägerström's Philosophy of Religion, with Special Reference to His Theory of Knowledge and His Concept of Reality. Major Adviser: Prof. P. L. Holmer.

Rubin Saposnik, Lafayette, Ind.

B.S. '50, M.A. '51, University of Chicago. Major: Economics. Minor: Statistics. Thesis: Models for the Analysis of Capital Equipment Purchase Policies. Major Adviser: Prof. Leonid Hurwicz.

Edward Bernhard Savage, Prescott, Wis.

B.A. '48, Hamline University; M.A. '53, University of Minnesota. Major: Comparative Literature. Minor: English. Thesis: Dramatic Treatments of the Tristan and Isolde Tale—A Comparative Study. Major Adviser: Prof. E. H. Falk.

Horace Eugene Staph, Austin, Tex.

B.S. in M.E. '43, The Rice Institute; M.S. in M.E. '51, University of Texas. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Some Considerations of Stick-Slip in the Two-Degree-of-Freedom System. Major Adviser: Prof. R. C. Jordan.

Richard Ryle Stephenson, Minneapolis

B.A. *magna cum laude* '51, M.A. '57, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: A Comparison of the Strong VIB Profiles of High Ability Male S.L.A. Freshmen Who Change Expressed Vocational Choice with Those Who Do Not Change Such Expressions. Major Adviser: Prof. D. G. Paterson.

Mamoru Tabata, Wakayama, Japan

B.Agric. '53, Kyoto University; M.S. '59, University of Minnesota. Major: Plant Genetics. Minor: Botany. Thesis: Studies of Chromosome Pairing in Maize by Using Interchanges Involving the Same Two Chromosomes. Major Adviser: Prof. C. R. Burnham.

Peter Larsen Thorslev, Jr., Blair, Neb.

B.A. *summa cum laude* '50, Dana College; M.A. '57, University of Minnesota. Major: English. Minor: Philosophy. Thesis: The Byronic Hero: Types and Prototypes. Major Adviser: Prof. G. R. Stange.

Roy Edward Tuttle, Madison, Wis.

B.S. '48, M.B.A. '49, University of California. Major: Business Administration. Minor: Law. Thesis: Leaseholds—Their Financial Consequences and Disclosure. Major Adviser: Prof. C. L. Nelson.

Leon Harold Warshay, Brooklyn, N.Y.

B.A. '49, Brooklyn College; M.A. '51, University of Chicago. Major: Sociology. Minors: Psychology and Anthropology. Thesis: Breadth of Perspective, Culture Contact, and Self. Major Adviser: Prof. A. M. Rose.

Margaret Jean Watkins, Cleveland Heights, Ohio

B.A. '49, De Pauw University; M.S. '53, University of Minnesota. Major: Zoology. Minor: Biophysics. Thesis: Interferometric Measurements of the Chromosomal Mass in a Grasshopper. Major Adviser: Prof. J. G. Gall.

Lynn Alexander Keeling Watt, Seattle, Wash.

B.Sc.(Hons.) '47, University of Manitoba; M.S. '51, University of Chicago. Major: Electrical Engineering. Minor: Mathematics. Thesis: Some Magnetic Properties of Iron Oxide Micropowders. Major Adviser: Prof. A. H. Morrish.

Robert Lee White, Louisville, Ky.

B.A. '50, University of Louisville; M.A. '55, University of Minnesota. Major: American Studies. Thesis: Some Passionate Pilgrims: The Image of Italy in American Romanticism. Major Adviser: Prof. G. R. Stange.

Clifford LaVar Wilcox, Thornton,
Idaho

B.S. '51, Utah State Agricultural College; M.S. '57, University of Minnesota. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: An Analysis of Production Records Comparing Dairy Sire Progeny Testing Systems In Artificial Breeding. Major Adviser: Prof. C. L. Cole.

Richard Russell Yeo, Big Rapids,
Mich.

B.S. '50, M.S. '52, Michigan State College. Majors: Agronomy and Soils. Minor: Botany. Thesis: The Absorption of the Sodium Salt of 2,4-D on Kaolinite, Bentonite and Cellulose. Major Advisers: Profs. R. S. Dunham and A. C. Caldwell.

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

December, 1959

- 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. Morrill, Mr. James Reese, President, Minnesota Student Association, and Mr. Pierre Meyer, President, Coffman Union Board of Governors.
- Christmas carols will be sung by the Men's Glee Club Ensemble, directed by Assistant Professor of Music Norman Abelson.
- 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.
- All guests are urged to register at the appropriate tables. The signed pages will be bound and preserved by the class of 1959.
- Punch will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.