

THE
UNIVERSITY OF MINNESOTA

Announces Its

March Commencement

1953

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, MARCH 19

AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, 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 Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable E. E. Novak, New Prague

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.

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota has this year celebrated its one hundred and second 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 doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—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 110,000 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 nearly 19,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, 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, and recreation and health consultants give effective aid and 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 its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, poliomyelitis, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, supersonics and transonics, to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the Minneapolis Symphony, the University Artists Course, radio station KUOM, the University Theatre, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly 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 to be constructed and for the great Mayo Memorial building to be erected over the coming months. Through the American Legion and auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart diseases.

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 University Alumni Association and the Greater University Fund and to return as frequently as possible to visit us here at the University.

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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 7:00 to 7:30 p.m. they will hear the Flemish bells being played from Northrop Memorial Auditorium, Mr. J. Frederic Goossen, M.A. '50, carillonneur. Admission to the March commencement exercises is by guest card only. Guests will be seated as they arrive in the Auditorium and will remain seated until the colors are presented.

PRELUDE CONCERT: From 7:30 to 8:00 p.m., the University Concert Band, Mr. Gerald Prescott, Associate Professor and Bandmaster, will play:

Prelude and Fugue in G Minor	- - - - -	J. S. Bach
Coronation Scene from "Boris Godounow"	- - - - -	M. Moussorgsky
Cake Walk from "Suite of Old American Dances"	- - - - -	Robert R. Bennett
Tirolese from "Soirées Musicales"	- - - - -	Benjamin Britten
Rondo from "Royce Hall Suite"	- - - - -	Healey Willan
Allegro Vivace from "Organ Sonata in D Major"	- - - - -	Alexandre Guilmant

PROCESSIONAL: Procession of the Nobles from "Mlada" - Rimsky-Korsakov

PROCESSIONAL: 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: Dr. Joseph C. Olson, Associate Professor of Dairy Husbandry, Marshal; Dr. Raymond G. Price, Professor of Education, Marshal; Dr. John G. Darley, Assistant Dean of the Graduate School; Dr. Richard L. Kozelka, Dean of the School of Business Administration; Dr. Austin A. Dowell, Assistant Dean, College of Agriculture, Forestry, and Home Economics, Institute of Agriculture; Dr. J. W. Buchta, Chairman of the University College Committee; Dr. Alfred L. Vaughan, Assistant Dean of the General College; Captain Doyle M. Coffee, USN, Professor of Naval Science; Lieutenant Colonel Helmer T. Aasheim, USAF, Assistant Professor of Air Science and Tactics; Dr. Edmund G. Williamson, Dean of Students; the Honorable Karl G. Neumeier, Member, Board of Regents; Mr. True E. Pettengill, Recorder; Dr. Malcolm M. Willey, Vice President, Academic Administration; Dr. James Lewis Morrill, President of the University of Minnesota; Dr. Paul H. Giddens, President, Hamline University; Mr. William T. Middlebrook, Vice President, Business Administration; the Honorable George W. Lawson, Second Vice President, Board of Regents; the Reverend Joseph G. Vasiliou, Priest and Director of the Eastern Orthodox Fellowship; Lieutenant Colonel August R. Wood, USA, Assistant Professor of Military Science and Tactics; Assistant Dean Huntington Miller, University Extension; Dr. Errett W. McDiarmid, Dean of the College of Science, Literature, and the Arts; Mr. Roy Jones, Professor and Head of the School of Architecture, Institute of Technology; Dr. Walter W. Cook, Dean of the College of Education; Dr. Earl B. Fischer, Professor of Pharmacognosy, College of Pharmacy; Dr. Harold S. Diehl, Dean of the College of Medical Sciences; Mr. Richard Halverson, B.A. '52; Dr. Edward B. Stanford, University Librarian, Marshal.

PRESENTATION OF COLORS: As the color guard, made up of University Army ROTC and Air ROTC Cadets, and Naval ROTC Midshipmen, enters the Auditorium, the audience will rise.

THE NATIONAL ANTHEM (first stanza only): The entire audience and Mr. Richard Halverson, B.A. '52, soloist.

INVOCATION: The Reverend Joseph G. Vasiliou, Priest and Director of the Eastern Orthodox Fellowship.

SPEAKING FOR THE UNIVERSITY: President James Lewis Morrill, LL.D., President of the University.

COMMENCEMENT ADDRESS: "Citadels of Truth and Freedom," Dr. Paul H. Giddens, Ph.D., President, Hamline University, St. Paul.

CONFERRING OF COMMISSIONS: Dr. Malcolm M. Willey, Vice President, Academic Administration, will introduce Lieutenant Colonel August R. Wood, USA, Assistant Professor of Military Science and Tactics; Captain Doyle M. Coffee, USN, Professor of Naval Science; and Lieutenant Colonel Helmer T. Aasheim, USAF, Assistant Professor of Air Science and Tactics, who will present the candidates for commissions in their respective branches of the Armed Services. The commissions will be presented by President Morrill; the oath of office will be administered by Lieutenant Colonel Aasheim.

CONFERRING OF DEGREES: Vice President Willey will introduce the several deans or their representatives who will present the candidates for certificates and degrees in their respective colleges. These, in order of their introduction, are: Assistant Dean Huntington Miller, LL.B., University Extension; Assistant Dean Alfred L. Vaughan, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Associate Dean J. W. Buchta, Ph.D., University College; Professor Roy Jones, M.S. in Arch., Institute of Technology; Assistant Dean Austin A. Dowell, Ph.D., College of Agriculture, Forestry, and Home Economics, Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Professor Earl B. Fischer, Ph.D., College of Pharmacy; Dean Harold S. Diehl, M.D., College of Medical Sciences; Assistant Dean John G. Darley, Ph.D., Graduate School. All degrees will be conferred by President Morrill. Immediately afterwards, certificates and diplomas will be presented by each dean to the graduates of his college.

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

"HAIL! MINNESOTA," the University's alma mater song: The audience and Mr. Richard Halverson, 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: The University Concert Band.

Nibelungen March - - - - - Richard Wagner

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

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, Signal Corps

Thomas Louis Krattenmaker, Kent

Second Lieutenant, Transportation Corps

Henry Richard Ballard, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

James Kneeland Lackore, Minneapolis Sverre Olav Tinglum, Black River
Falls, Wis.

Ensign, USNR

Derrill Gene Holland, Minneapolis

Second Lieutenant, USMC

John Charles Mason, Minneapolis

DEPARTMENT OF AIR SCIENCE AND TACTICS

Second Lieutenant, USAF Reserve

Owen Bridgwater, Aitkin	Keith D. Johnson, St. Paul
Armand E. Brim, Fairfield, Wash.	Donald W. Lynch, Minneapolis
Gene J. Cloutier, Cloquet	Richard B. Metzger, St. Paul
Robert G. Devitt, St. Paul	Henry A. Snyder, St. Paul
Wayne A. Dickson, Sioux City, Iowa	John A. Teberg, Minneapolis
Paul B. Hammersmith, Milwaukee, Wis.	

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 Certificate

D. Dean H. Dahl, Minneapolis
Marian Hanrahan, St. Paul

William J. Mahoney, St. Paul

Engineering Certificate

Melvin W. Messer, Minneapolis

Industrial Engineering Certificate

Raymond J. Johnson, Minneapolis

GENERAL COLLEGE

Associate in Arts

Reuben William Anderson, Minneapolis

Carole Beck, Minneapolis

Barbara Faye Betten, St. Paul

Richard Niel Carlson, Minneapolis

Richard Leo Dougherty, International Falls

Richard Alvin Edlund, St. Louis Park

Clarence Lewis Ewing, Minneapolis

Harold Leo Fabriz, Minneapolis

Gerald Norman Furseth, Bayport

Michael James Grimes, Minneapolis

Jack Duane Halverson, Minneapolis

Gale Johar Hurley, Minneapolis

Alan Algot Johnson, St. Louis Park

Walter Edmund Johnson, Jr.,
Minneapolis

Gordon Lambert Justus, Watertown

Sharon T. Klein, St. Paul

Paul Kenneth Koch, Minneapolis

Ronald Wesley Nelson, St. Paul

Ronnie H. Rich, Minneapolis

James Michial Rock, Minneapolis

Neil Herbert Stein, St. Paul

Ivy Ida Stuck, Minneapolis

Richard Louis Sundblad, Long Lake

James Richard Tersch, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Marilyn Sue Barnes, Minneapolis
Yvonne Trebby Ford, Minneapolis
Einer Arthur Fretheim, Albert Lea
Walter Conrad Hildebrandt, St. Paul
Gracia Rae Klein, St. Paul
Gerald Kent Kvistberg, Minneapolis
Richard Adolph Larson, Lindstrom

Riva Mae Lyone, St. Paul
Robert Lewis Mann, Minneapolis
Alice Beatha Noss, Bloomington
Mary Rude Slettehaugh, Minneapolis
John Erle Thames, St. Paul
Evelyn Beatrice Youse, Minneapolis

Bachelor of Arts

Mary Leigh Allison, St. Paul
Wilfrid John Anderson, St. Paul
D. Joan Forfar Barnes, Minneapolis
Lloyd Arnold Benson, Lindstrom
Robert Franklin Blais, St. Paul
Bernard Brenner, Minneapolis
Brian Earl Briggs, Minot, N.D.
Hazel Holst Broberg, Minneapolis
Patricia Jane Bumby, Minneapolis,
CUM LAUDE
Kenneth Frederick Carlson, Austin
Thomas Paul Carlson, Minneapolis
John Robert Coan, Jr., A.A., Minne-
apolis
Janice Marilyn Cohn, Minneapolis,
CUM LAUDE
Thomas Dale Cole, Glenwood, MAGNA
CUM LAUDE
Donna Louise Cooper, Minneapolis
Wayne A. Dickson, A.L.A., Sioux
City, Iowa
Royal Winfred Eckert, Hopkins
Philip Paul Economon, A.A., Minne-
apolis
Rudolph Herman Engelmann, Hewitt
Patrick Kenneth Fallon, Brainerd
John D. Farnham, Jr., Minneapolis
LeRoy Eugene Faser, St. Paul
Joel Frank, Deephaven
Robert Charles Gandesbery, St. Paul
Franz Joseph Ferdinand Gayl, Berlin,
Germany
John Rodney Grubb, Minneapolis
Mary Anne Hadlick, Minneapolis
Mary Textor Hammar, St. Paul

Channing P. Handberg, A.A. Min-
neapolis
Elizabeth Daryll Hanson, St. Paul
Carole Madelyn Hedeau, Minneapolis
Kathleen Hogan, St. Paul
Richard Edwin Holtz, Mankato
Norma Garley Johnston, St. Paul
Elmer Alfred Kaardal, Minneapolis,
CUM LAUDE
Keith Douglas Kennedy, Hopkins
Phyllis Mardel King, Minneapolis
Curtis Irvin Knudson, Hartland
Arthur Anthony Koch, Minneapolis
Thomas Darryl Madigan, Faribault
Mark Edward Mahowald, Fergus
Falls, CUM LAUDE
George Howard Martinsen, Minne-
apolis
William Sidney McWhirter, Jr.,
St. Paul
Linford Alton Meese, Faribault
Richard Lee Moses, Minneapolis
Janet Carol Olsen, Duluth, MAGNA
CUM LAUDE
Sylvia Eileen Olson, Litchfield
David Goepfert Patchin, Hibbing
Barbara Brayton Pearson, St. Paul
Edith Florene Pearson, Minneapolis,
CUM LAUDE
Wallace Edward Pehrsson, Minne-
apolis
Jack Harold Perschmann, Minneapolis
Grazyna Poltowicz, Minneapolis
John Pond, Minneapolis
John Lohryn Rock, Sioux Falls, S.D.

Roland Edward Rustad, Minneapolis
Barbara R. Schackman, Patchoque,
N.Y.
Evelyth Maurine Schechter, Minne-
apolis
William Jean Schrankler, St. Paul
Mayer C. Stiebel, Chicago, Ill.
Bernardine Joanne Sudeith, Minne-
apolis
Herman Lou Talle, Glenwood

Sverre Olav Tinglum, Black River
Falls, Wis.
Soren J. Uhrenholdt, Morris, Ill.
James Earl Watson, St. Charles
Charles Brewster Webber, A.A.,
Austin
Jean Johnson Wooley, Minneapolis
William Walter Worzalla, Stevens
Point, Wis.

Bachelor of Science in Library Science

Janiece Barre Fusaro, B.A., M.A.,
Minneapolis
Mary Lathrop Goss, B.A., Minne-
apolis

Alice Dorothy Lockwood, B.A.,
Cranford, N.J.

UNIVERSITY COLLEGE

Bachelor of Arts

Shirley Jean Bishop, St. Paul
Kenneth Jaffe, International Falls

Barbara Joan Stillwell, Minneapolis

Bachelor of Science

Robert Leo Albrecht, Greene, Iowa
Curtis John Anderson, Minneapolis

Allen Duane Hauge, Jackson

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Donald Joseph Conrath, Jr., St. Paul
Floyd Jerry Lucia, Eau Claire, Wis.,
WITH DISTINCTION

Richard Giichi Suzuki, Honolulu,
T. H., WITH DISTINCTION
Charles Frederick Wenz, Minneapolis

Bachelor of Aeronautical Engineering

Paul Gerin Fahlstrom, Cloquet

Bachelor of Agricultural Engineering

Charles James Pelnar, Minneapolis

Bachelor of Architecture

Howard Norman Dahlgren, Shakopee Yasuo Nakao, Hanapepe, Kauai, T.H.
Robert Gorham Magney, B.A., George Norman Stertz, Junction City,
Duluth Wis.

Bachelor of Chemistry

Donald Joseph Conrath, Jr., St. Paul

Bachelor of Civil Engineering

Roger Curtis Conger, Ogilvie Roger Burke Oltman, St. Paul
Robert Nordlie Dobbin, Minneapolis James Oliver Schmid, St. Paul
John Paul Dropik, St. Paul

Bachelor of Electrical Engineering

Norman Arthur Benson, B.S., Adrian, WITH DISTINCTION

Bachelor of Geological Engineering

Theodore John Hill, Amiret

Bachelor of Industrial Engineering

Philip Carr Hansen, Duluth

Bachelor of Mechanical Engineering

William Ernest Bollman, St. Paul *William Lester Peel, Dassel, WITH*
Philip Donald Freeman, St. Paul *HIGH DISTINCTION*
Donald Gregory Kampa, St. Paul Thomas Paul Petersen, St. Paul
James Kneeland Lackore, Minne- Anthony James Secola, A.S., Mt. Iron
apolis William Richard Stary, Detroit Lakes
Roger Burton Lee, St. Paul Charles Frederick Wenz, Minne-
Alistair MacDonald, Washington, apolis
D.C.

Bachelor of Mining Engineering

John Richard Sandberg, Duluth

Bachelor of Petroleum Engineering

John Adolph Teberg, Minneapolis

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

Bachelor of Science

- Bonnie Jeanne Beloungy, Minneapolis, Home Economics
Barbara Dietz Bertram, Minneapolis, Home Economics
Becky Anne Deneen, Minneapolis, Home Economics
Robert John Dickinson, Virginia, Agriculture
Edith Lehto Drake, Minneapolis, Home Economics
Maurice Scoles Durkee, Winnebago, Agriculture
Shirley Mae Erickson, Minneapolis, Home Economics
Gordon Whittier Gilbert, A.A., St. Paul, Forestry
Daren Kent Gislason, Minnesota, Agriculture, WITH DISTINCTION
Joan Vivian Groves, Minneapolis, Home Economics
William Arthur Haglund, Minneapolis, Agriculture
Marilyn Jean Hemsey, Minneapolis, Home Economics
Beverly Jean Johnson, Campbell, Home Economics
Henry Hans Kaufmann, Minneapolis, Food Technology
Patricia Ann Kluge, St. Paul, Home Economics
Gladys Ann Lorenzen, West Port, Agriculture
Peggy McConnell, Minneapolis, Agriculture
George Anderson McCormack, Fort William, Ontario, Canada, Forestry
Richard John Myshak, Rhinelander, Wis., Forestry
Donald Carl Nelson, Minneapolis, Agriculture
Beatrice Olive Ness, Minneapolis, Home Economics
Robert Joseph Nixon, St. Paul, Forestry
Lloyd Wyman Nystrom, Alvarado, Agriculture, WITH DISTINCTION
Francis Walter Peterson, Eagle Bend, Agriculture
Gerhard Arthur Ross, Fisher, Agriculture
John Albert Scharf, Minneapolis, Fishery and Wildlife Management
Douglas Berry Shaw, Minneapolis, Forestry
Harold Byers Stewart, A.A., Rochester, Forestry
Burdette Carroll Stief, Minneapolis, Agriculture
Vernon D. Stotts, Appleton, Fishery and Wildlife Management
Alvin Juel Torvi, Crookston, Agriculture

COLLEGE OF EDUCATION

Bachelor of Science

- Ora Ray Ackerman, Rochester, WITH DISTINCTION
Paul David Albitz, B.A., Mound
Lenore Elizabeth Allen, Minneapolis
Edith Bernetta Aronson, Minneapolis
Arlene Gwendolyn Augustine, Minneapolis
Owen Bridgwater, Aitkin
Joyce Loraine Brindle, Anoka

Jane Loss Collins Brockway, Wayzata,
 WITH DISTINCTION
Betty Heise Buhler, Mankato
Judith Jeanne Engelson, St. Paul
Alvilda Pauline Fagre, Minneapolis
Margaret Hemp Flook, Knoxville,
*Md., WITH HIGH DISTINCTION**
Alice Helen Foot, Rochester, WITH
 DISTINCTION*
Fanchon Elizabeth Foss, Faribault,
 WITH DISTINCTION
*Constance Joanne Fosvick, Hinckley**
Jack Arnold Gilbertson, Minneapolis,
 WITH DISTINCTION
Edward William Holmes, Minne-
 apolis
Ellen Muriel Jacobson, Alexandria
Alice Charlotte Jeffreys, Denver,
 Colo., WITH DISTINCTION*
Shirlie Alice Mansergh Klaus, B.A.,
 St. Paul
L. Marguerite Lines, Toronto, Ont-
 tario, Canada, WITH HIGH DISTINC-
 TION*
Delford Anton Mach, Minneapolis
Richard Bruce Metzger, St. Paul
Dorothy Alice Naugle, Devils Lake,
 N.D., WITH HIGH DISTINCTION*
Gerald James Newman, Minnesota
 City
Karin Borgny Norling, A.A., Minne-
 apolis
Arthur Glenn Olson, Minneapolis
Auramae Pervier Parks, Robbinsdale,
 WITH HIGH DISTINCTION
Carol Louise Peterson, Minneapolis,
 WITH DISTINCTION
Robert Lance Pickering, Robbinsdale
Eugene Elmer Pose, St. Paul
*Ruth Elizabeth Rosen, Excelsior**
Joan Ruth Sargent, Minneapolis
*Jean Marie Schenk, Tacoma, Wash.**
*Ethel Evelyn Schultz, Remer**
Eileen Ada Sisson, Baltimore, Md.,
 WITH DISTINCTION*
Henry Allen Snyder, St. Paul
Allan Percy Sorenson, St. Louis Park
Evelyn Roberta Spurlin, St. Paul
Esther Mary Stevens, Hartington,
 Neb., WITH DISTINCTION*
*Mei-En Sung, Tsingtao, China**
Joan Laurine Treleaven, Hallock
Robert William Tryon, Dallas, Pa.
Janice Joan Williams, Ortonville,
 WITH DISTINCTION
Ruth Marie Zitzmann, Madelia

Bachelor of Science in Library Science

Luella Irene Cernahan, B.E., Eau Claire, Wis.

Master of Education

Paul David Albitz, B.A., Mound

Beulah Fydell Gregoire, B.S., Bagley

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

Bachelor of Science

Burdell Ida Carlson, Cambridge,
 Home Economics Education

Harley Ernest Hanke, Brownsville,
 Agricultural Education

* Nursing Education Curriculum.

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Roger Anthony Anderson, Minneapolis
Robert Roger Benson, Minneapolis
Robert Charles Burke, St. Paul, WITH
DISTINCTION
Gene Joseph Cloutier, Cloquet
John Edmund Coffey, Minneapolis
Joseph Patrick Colwell, Minneapolis
David S. Eiger, Minneapolis
Louis Otto Germer, St. Paul
Hugh Earl Hawkins, St. Paul
Derrill Gene Holland, Minneapolis
Judson Lewis Hovland, Minneapolis
Harry James Iliff, St. Paul
Keith Duane Johnson, A.L.A.,
St. Paul

Bonnie Gaye Larkin, Gardiner, Mont.
Thomas Edward LaVelle, Lakeville
Harold William Leiferman, St. Paul
Donald William Lynch, Minneapolis
George James Lyon, St. Paul
Alfred Lind Marks, New York, N. Y.
Robert Francis Martin, St. Paul
John Charles Mason, Minneapolis
Wendell Vern Munson, Austin
John Nicholas Petroff, Minneapolis
James Patrick Quigley, Minneapolis
Eleanor Anna Walz, St. Paul, WITH
DISTINCTION
Richard Allan Westrum, Albert Lea
Donald Christian Wright, Minne-
apolis, WITH DISTINCTION

Bachelor of Science in Economics

Norman Joseph Isaksen, St. Paul
Paul William Olander, Morris

Charles Ted VanDecar, Scottsbluff,
Neb.

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Marlin Duane Narr, Henderson

LAW SCHOOL

Bachelor of Science in Law

Edward Peter Dietrich, Minneapolis

Connor Francis Schmid, Minneapolis

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Professional Nursing†

Rhoda Manley Arnason, St. Paul
Joan Wallace Arnold, Minneapolis

Verna Rose Woodrich Artis, Minne-
apolis, WITH DISTINCTION

† These degrees are conferred subject to the satisfactory completion of nursing practice prior to June 13, 1953.

Betsey Whittemore Batesole, Minneapolis
 Mary Joan Bendix, Annandale
 Muriel Anne Bloomdahl, A.A.,
 St. Cloud, WITH HIGH DISTINCTION
 Marilyn Rae Carlson, Elk River, WITH
 DISTINCTION
 Joan Arlene Carstater, Falls Church,
 Va.
 Ann Corrine Eckstein, Minneapolis
 Florence Carlin Elliott, B.S., Minne-
 apolis, WITH DISTINCTION
 Dorothy Mae Fairbanks, St. Paul
 Jacquelyn Lee Winger Falk, Eau
 Claire, Wis.
 Beverly Lou Fillbach, Faulkton, S.D.
 Marrelyce Clare Fillbach, Faulkton,
 S.D., WITH HIGH DISTINCTION
 Carol Magdalene Gaddis, Owatonna,
 WITH DISTINCTION
 Lois Elizabeth Gallman, Faribault
 Joan Kathryn Greene, Webster
 Groves, Mo.
 Phyllis Mae Haskell, Fergus Falls
 Mary Ann Herrmann, New Ulm
 Dorothy Mary Knapton, St. Paul,
 WITH DISTINCTION
 Delores Mae Levine, Duluth
 Joan Elaine Ludwig, Minneapolis,
 WITH DISTINCTION
 Jean Fox MacCallum, Bloomington
 Barbara Jean Merrill, St. Paul
 Marilyn Rose Mihelcic, Ely
 Judith Lucille Nelson, Little Falls
 June Geraldine Norlander, Stillwater,
 WITH DISTINCTION
 Muriel Joan Opal, Wausau, Wis.,
 WITH DISTINCTION
 Harriet Ann Percy, Mason City, Iowa,
 WITH DISTINCTION
 Blossom Charlyne Santamaa, Aurora,
 WITH DISTINCTION
 Dorothy Lou Sharpe, Park River,
 N.D., WITH DISTINCTION
 Phyllis A. Leary Simonson, Minne-
 apolis
 Dolores Rae Stephenson, Cook, WITH
 DISTINCTION
 Audrey Beth Stubbe, St. Paul
 Rosemary Angeline Tauzell, A.S., Ely
 Juanita Joan Wenstrom, Minne-
 apolis

Bachelor of Science

Sally Ann Anderson, A.A., Albert Lea,
 Medical Technology†
 Brian Earl Briggs, Minot, N.D.,
 Medicine
 Mary Joan Courture, G.N., Minne-
 apolis, Public Health Nursing
 Betty Viola Dieter, Worthington,
 Medical Technology†
 Lucile E. Marsh Franzen, Minne-
 apolis, Public Health Nursing
 Dennis Earl Lofstrom, St. Peter,
 Medicine
 Howard Richard Porter, Minneapolis,
 Medicine
 Jean Rene Urbank, Minneapolis,
 Medical Technology†

Master of Public Health

Lena Besendorfer, B.S., Salt Lake
 City, Utah
 Evelyn Louise Carlson, B.S., Tacoma,
 Wash.
 Helen Mildred Marcy, B.A., Portland,
 Ore.
 Mary Eleanor Reiter, B.S., M.A.,
 Cherry, Ill.
 Lulu Bell Ridley, B.S., Los Angeles,
 Calif.
 Frances Joanne Romano, B.S., Ster-
 ling, Ill.
 Frances Clifford Sanchez, B.S., M.A.,
 Barwick, Ga.

† These degrees are conferred subject to satisfactory completion of required practical work prior to June 13, 1953.

GRADUATE SCHOOL

Master of Arts

Paul Allen Anderson, Minot, N.D.
B.A. *summa cum laude* '51, Macalester College. Field of Concentration: French.

Jerry Belenker, Brooklyn, N.Y.
B.A. '51, Brooklyn College. Field of Concentration: Business Administration.

Myrtle Elizabeth Bell, Minneapolis
B.S. '43, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Frank Alexander Bengtson, Minneapolis
B.S. '51, University of Minnesota. Field of Concentration: Industrial Education.

William Bruce Bentsen, Cleveland Heights, Ohio
B.A. '50, Denison University. Field of Concentration: Economics.

Eugene Bluestein, Brooklyn, N.Y.
B.A. '50, Brooklyn College. Field of Concentration: English.

Jean Effal Carlin, Minneapolis
B.A. *cum laude* '50, University of Minnesota. Major: Psychology. Minor: Philosophy. Thesis: Drive Stimulus Generalization.

Alyce Taylor Cheska, Duluth
B.S. '43, Duluth State Teachers College. Field of Concentration: Educational Psychology.

Thomas Malcolm Coakley, Hamilton, Ohio
B.A. *magna cum laude* '51, Miami University. Major: History. Minor: Political Science. Thesis: Attempts at Closer Union Between England and Scotland Under James I.

Lyle Herbert Day, St. Cloud
B.S. '42, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Myron Edward Fahey, Rugby, N.D.
B.A. '47, University of North Dakota. Field of Concentration: Educational Administration.

Eugene Max Fritze, LeSueur
B.S. '51, University of Minnesota. Field of Concentration: Statistics.

James Ward Greenwood, Winnipeg, Manitoba, Canada
B.Sc. '46, University of Manitoba. Major: Physics. Minor: Mathematics. Thesis: Semi-Automatic Measurement of Impedance and Admittance.

Willis George Haugen, Waterloo, Iowa
B.A. with high honors '51, Iowa State Teachers College. Field of Concentration: Speech.

Sulo Havumaki, Hibbing
B.S. '48, University of Minnesota. Field of Concentration: Educational Psychology.

Beulah Minerva Hedahl, Bismarck, N.D.
B.A. '46, Concordia College; M.A. '48, State College of Washington. Field of Concentration: Educational Psychology.

Robert Charles Henry, St. Cloud
B.A. '51, St. John's University. Field of Concentration: Political Science.

Robert Bates Hinman, Lake Forest, Ill.
B.S. '49, Northwestern University. Field of Concentration: Psychology.

Graham Billings Hovey, Madison, Wis.
B.A. '39, University of Minnesota. Major: Political Science. Minor: History. Thesis: An Examination of Some Factors in the Decline and Collapse of the Progressive Party: 1912 to 1916.

Shirley M. Jahnson, Austin
B.A. *summa cum laude* '49, University of Minnesota. Field of Concentration: Psychology.

Ursula Pietschmann Kirkpatrick, St. Paul
Graduate '50, University of Munich. Field of Concentration: History and Philosophy of Education.

Alex Kurak, Chisholm
B.S. '50, University of Minnesota. Field of Concentration: English.

- Margaret Noble Lahey, Minneapolis
B.S. '41, University of Minnesota. Field of Concentration: Educational Psychology.
- William Warren Lainen, Tamarack
B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- John Walter Larson, St. Paul
B.A. '48, Haverford College. Field of Concentration: History.
- Idelia Loso, Ely
B.A. '37, College of St. Benedict; M.A. '46, University of Minnesota. Field of Concentration: Educational Psychology.
- Margaret Joyce MacInnes, Minneapolis
B.A. *summa cum laude* '51, University of Minnesota. Field of Concentration: English.
- Edwin Valder Manchester, Jr., Minneapolis
B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Julia K. Markkula, Minneapolis
B.S. '41, Bemidji State Teachers College. Field of Concentration: Curriculum and Instruction.
- Orvo Everett Markkula, Chisholm
B.S. '48, University of Minnesota. Field of Concentration: Industrial Education.
- Saryu Prasad Misra, Lucknow, India
B.A. (Honours) '41, M.A. '42, University of Lucknow. Field of Concentration: English.
- Edwin Nakasone, Minneapolis
B.A. '51, University of Minnesota. Field of Concentration: Political Science.
- Frances Miller Norbeck, Minneapolis
B.A. '43, Augsburg College. Major: History. Minor: Fine Arts. Thesis: Italian Antecedents to the Salon.
- Clayton James O'Hagan, New Brighton
B.S. '46, St. Cloud State Teachers College. Field of Concentration: Educational Administration.
- Amos Olorunfunmi Oredugba, Lagos-Nigeria, West Africa
B.A. '52, Hamline University. Field of Concentration: History.
- John Elmer Peninger, St. Paul
B.S. with distinction '48, University of Minnesota. Field of Concentration: History.
- Roman V. Prydatkevitch, Murray, Ky.
Graduate '23, Friedrich Wilhelm University. Major: Music. Minor: History. Thesis: Third Symphony in D—Western Kentucky.
- Robert Henry Rohlf, Minneapolis
B.A. '49, College of St. Thomas; B.S. in L.S. '50, University of Minnesota. Major: Library Science. Minor: Political Science. Thesis: An Analysis of the Characteristics of the Books Used in a University Library.
- Edmond Harvey Rubin, Minneapolis
B.A. '50, University of Minnesota. Field of Concentration: Psychology.
- Leon Schlosser, New York, N.Y.
B.A. '49, Marietta College. Field of Concentration: History.
- Louis Milde Smith, Clayton, Mo.
B.A. '50, Oberlin College. Field of Concentration: Psychology.
- Arthur Leroy Tollefson, Minneapolis
B.A. '48, Concordia College. Field of Concentration: Educational Psychology.
- Frithjof Orval Martinus Westby, Sioux Falls, S.D.
B.S. with honor '41, Northern State Teachers College. Major: Sociology. Minor: History. Thesis: Factors in the Rural-Urban Development of Norwegian Lutheranism in Minnesota.

Master of Business Administration

- Aaron Kerr Lyle, III, Minneapolis
B.A. '51, Colgate University. Field of Concentration: Business Administration.

Master of Science

William Kwesi Agle, Peki, Gold Coast, West Africa
B.S. '50, Mission House College. Field of Concentration: Agronomy.

Raymond A. Ahlfors, Alexandria
B.S. '42, University of Minnesota. Field of Concentration: Agricultural Education.

Marina Esther Axeen, St. Cloud
B.S. '45, St. Cloud State Teachers College;
B.S. in L.S. '49, University of Minnesota. Field of Concentration: Library Science.

Grace Eleanor Blanchard, Ann Arbor, Mich.
B.A. with distinction '49, University of Michigan. Field of Concentration: Botany.

Howard LaMar Christopherson, St. Paul
B.Chem. with distinction '49, University of Minnesota. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Dissociation Constant of Nickel Dimethylglyoximate.

Margaret Brodahl Cifonelli, Duluth
B.E. '39, Duluth State Teachers College. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: 2,5-Anhydro Arabinose.

Thomas Hoskins Copeland, Jr., Minneapolis
B.A. '50, University of Minnesota. Field of Concentration: Psychology.

Chester Bertram Daumitz, Stambaugh, Mich.
B.S. '45, Wisconsin State Teachers College. Field of Concentration: Agricultural Economics.

Elliot Colter Dick, Coral Gables, Fla.
B.A. '50, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: A Study of Some Effects of Dietary Carbohydrate and Antibiotic upon Young Rats Fed Rations Deficient in Vitamin B₁₂.

Eugene James Guy, Rochester
B.S. with distinction '47, University of Minnesota. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: A Study of Some Substances Which Interfere with the Roe Method for the Determination of Ascorbic Acid.

Aubin Marie Achille Cesar Heyndrickx, Ledeberg-Ghent, Belgium
Graduate '46, St. Lievin College; Pharmaceutical Chemist '51, University of Ghent. Field of Concentration: Pharmaceutical Chemistry.

Niles Henry Jefferson, Moorhead
B.S. '46, Moorhead State Teachers College. Major: Zoology. Minor: Botany. Thesis: *Haemogregarina* and *Haemoproteus* from Turtles.

Howard Robert Kiebel, Monticello
B.S. '51, University of Minnesota. Field of Concentration: Animal Husbandry.

Benjamin Nelson, New York, N.Y.
B.S. '50, City College of New York. Field of Concentration: Physics.

Leo Burton Pospichal, Chisholm
B.S. with distinction '50, University of Minnesota. Major: Economic Zoology. Minor: Botany. Thesis: A Field Study of Sora Rail (*Porzana carolina*) and Virginia Rail (*Rallus limicola*) Populations in Central Minnesota.

Terence Thomas Quirke, Jr., Urbana, Ill.
B.S. '51, University of Illinois: Major: Geology. Minor: Metallurgy. Thesis: Preliminary Investigation of the Geology of the North Michigamme Area, Marquette Iron Range, Michigan.

Aida Perez Gonzalez de Rivera, San Juan, Puerto Rico
B.S. '44, B.B.A. with honors '46, University of Puerto Rico. Field of Concentration: Agricultural Economics.

Gerald H. Simonson, New Richland
B.S. with distinction '51, University of Minnesota. Field of Concentration: Soils.

Rudolph Melton Stolen, St. Paul
B.S. '32, University of Minnesota. Field of Concentration: Animal Husbandry.

John Reuben Thompson, Waseca
B.S. '49, University of Minnesota. Field of Concentration: Agronomy.

Allan Andrew Virta, Minneapolis
B.S. '41, University of Minnesota. Field of Concentration: Horticulture.

Margaret Jean Watkins, Cleveland, Ohio
B.A. '49, DePauw University. Major: Biophysics. Thesis: Quiescent Impedance Characteristics of Frog Sciatic Nerve.

LaRue Wells, Port Arthur, Tex.
B.S. with distinction '49, University of Minnesota. Major: Economic Zoology. Minor: Botany. Thesis: Factors Influencing the Yield of Yellow Perch (*Perca flavescens*) in the Red Lakes Commercial Fishery.

Edward Francis Witucki, Bowlus
B.A. '51, University of Minnesota. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Xanthate Reaction as Applied to the Cis and Trans 1-2 Cyclohexane Diol.

Master of Science in Aeronautical Engineering

Lewis Alfred Bleich, Omaha, Neb.
B.S. '47, Iowa State College. Field of Concentration: Aeronautical Engineering.

Walter Louis Melnik, St. Paul
B.S. with distinction '51, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Master of Science in Chemical Engineering

Quintin Albert Narum, Minneapolis
B.Ch.E. with distinction '50, University of Minnesota. Major: Chemical Engineering. Minor: Industrial Engineering. Thesis: A Study of the Flow Characteristics of Paper Pulp Suspensions Using a Modified Concentric-Cylinder Viscometer.

Master of Science in Civil Engineering

Po On Law, Canton, China
B.S. in C.E. '48, National Sun Yat-Sen University. Major: Civil Engineering (Hydraulics). Minor: Civil Engineering (Structures). Thesis: Effect of Scale on the Performance of Model Sedimentation Basins.

Yue-Ho Leung, Yanping, China
B.S. in C.E. '48, National Sun Yat-Sen University. Major: Civil Engineering (Hydraulics). Minor: Civil Engineering (Structures). Thesis: Experimental Studies of the Depression of the Filament of Maximum Velocity in Rectangular Open Channels.

Herbert Carl Nelson, Prentice, Wis.
B.S. '42, River Falls State Teachers College; B.C.E. '48, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Fluid Flow in Rough Triangular Channels.

Master of Science in Electrical Engineering

Andrew O. Jensen, Minneapolis
B.E.E. with distinction '50, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Experimental Study of the Free Field Response of a Tractrix Horn with Finite Baffle.

Master of Science in Mechanical Engineering

Harry Eugene Cotrill, Jr., St. Louis
Park

B.S. with high distinction '51, University of Minnesota. Major: Mechanical Engineering (Internal Combustion Engines). Minor: Mechanical Engineering (Machine Design). Thesis: The Cycle to Cycle Variation of Maximum Combustion Pressure in a Two-Stroke Cycle Engine.

Duane Floyd Dipprey, Mora

B.S. with distinction '51, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: A Study of Mixture Distribution at Part-Throttle Conditions in a Four-Cylinder Automotive-Type Engine.

John Edward Janssen, Charles City,
Iowa

B.S.M.E. '49, Iowa State College. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Preliminary Investigation into the Effect of Air Distribution on Mixing in a Constant-Pressure Combustion Chamber.

Leonard Joseph Seaberg, Minneapolis

B.S. with distinction '51, University of Minnesota. Major: Mechanical Engineering (Internal Combustion Engines). Minor: Mechanical Engineering (Industrial Engineering). Thesis: An Investigation of the Effects of Pulsating Flow on Orifice Coefficients.

John Harvey Stevens, Minneapolis

B.S. with distinction '51, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics and Mechanics. Thesis: A Study of the Application of a Punched Card Type Digital Computer to Engineering Problems.

Master of Science in Ophthalmology

Willis Thomas Carson, Odessa, Tex.

B.B.A. '44, M.B.A. '48, Texas Technological College; M.D. '47, Southwestern Medical College. Major: Ophthalmology. Minor: Pathology. Thesis: Keratoconjunctivitis Sicca in Patients with Rheumatoid Arthritis.

Master of Science in Surgery

Anthony Hill Kelly, Sioux City, Iowa

B.S. '46, M.D. '47, Northwestern University. Major: Surgery. Minor: Experimental Surgery. Thesis: The Effect of Gastroenterostomy on Canine External Pancreatic Secretion.

Master of Social Work

Takanori Mizuta, Chicago, Ill.

B.A. '50, University of Illinois. Field of Concentration: Social Work.

Doctor of Philosophy

Robert William Berg, St. Paul

B.S. with distinction '41, M.S. '50, University of Minnesota. Major: Poultry Husbandry. Minor: Animal Husbandry. Thesis: Some Relationships of Several Body Measurements to Meat Yield and Reproductive Performance in Turkeys. Major Adviser: Prof. R. N. Shoffner.

Rena Ethel Boyle, Hastings, Neb.

B.S. with distinction '41, M.A. '46, University of Minnesota. Major: Education. Minor: Psychology. Thesis: A Study of Programs of Professional Education for Teachers of Nursing in Nineteen Selected Universities. Major Adviser: Prof. R. E. Eckert.

Kuang-Chun Chou, Chengtu, China
B.S. in Aero.E. '43, National Northwestern College of Engineering (China); M.S. in Aero.E. '49, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics and Mechanics. Thesis: Aerodynamic Characteristics of Swept-Back Wings in Subsonic Compressible Flow. Major Adviser: Prof. J. D. Akerman.

Joseph Anthony Cifonelli, Utica, N.Y.
B.A. '43, M.A. '52, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: A Study of Invertase. Major Adviser: Prof. Fred Smith.

Joseph George Graca, Minneapolis
B.S. '39, College of St. Thomas. Major: Pharmacology. Minor: Bacteriology. Thesis: The Relationship of Drug Action to the Hemato-Encephalic Barrier. Major Adviser: Dr. R. N. Bieter.

Richard Airth Hamilton, Grand Rapids
B.S. '37, North Dakota Agricultural College; M.S. '40, Ohio State University. Major: Horticulture. Minor: Plant Genetics. Thesis: Progeny Studies with Two Solo Papaya Strains. Major Adviser: Prof. T. M. Currence.

William Otto Harms, Alton, Ill.
B.S. in Met.E. with high distinction '48, Wayne University; M.S. '50, University of Minnesota. Major: Metallurgy. Minor: Physical Chemistry. Thesis: A Thermodynamic Study of Liquid Thallium-Lead-Bismuth Solutions. Major Adviser: Prof. H. S. Jerabek.

John Theodore Hefley, Minneapolis
B.S. '39, M.A. '40, University of Oklahoma. Major: American Studies. Thesis: *The Christian Century in American Culture, 1920-1941*. Major Adviser: Prof. M. Q. Sibley.

Sigurdur Bjorn Helgason, Winnipeg, Manitoba, Canada
B.S.A. '39, University of Manitoba; M.S. '42, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: A Study of Genetic Factors and Techniques Affecting Cold-Test Performance in Corn. Major Advisers: Profs. C. R. Burnham and E. L. Pinnell.

Shigemi Honma, Honokaa, Hawaii, T.H.
B.A. '49, Cornell University. Major: Horticulture. Minor: Plant Genetics. Thesis: Comparison of Recurrent Parent with Different Backcross Generations in Tomato. Major Adviser: Prof. T. M. Currence.

Leonard Horwitz, Bronx, N.Y.
B.S. cum laude '48, College of the City of New York. Major: Botany. Minor: Physical Chemistry. Thesis: Investigations on Hill Reactions of Isolated Chloroplasts and Whole Cells and Their Relation to Photosynthesis. Major Adviser: Prof. A. H. Brown.

John Asa Jarvis, Menomonie, Wis.
B.S. in M.E. '31, University of Wisconsin; B.S. '36, The Stout Institute; M.Ed. '41, Wayne University. Major: Education. Minor: Industrial Education. Thesis: Student Survival Factors in The Stout Institute. Major Adviser: Prof. H. J. Smith.

Harold Solomon Karr, Pullman, Wash.
B.A. '39, University of Manitoba; M.A. '46, University of Minnesota. Major: English. Minor: Philosophy. Thesis: *Samuel Butler: His Influence on Shaw, Forster and Lawrence*. Major Adviser: Prof. W. V. O'Connor.

John Russell Kyte, Osceola, Iowa
B.S. '43, Iowa State College. Major: Chemical Engineering. Minor: Mechanical Engineering. Thesis: Heat Transfer from Spheres and Cylinders to Gases at Sub-Atmospheric Pressures Under Natural Convection Conditions. Major Adviser: Prof. E. L. Piret.

Robert Frank Lambert, St. Paul
B.E.E. with high distinction '48, M.S. in E.E. '49, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of the Influence of Boundary-Layer Viscosity and Heat Conduction, Mechanical Wall Vibration, and Thermal Relaxation on the Damping of an Acoustical Cavity Resonator. Major Adviser: Prof. H. E. Hartig.

Daniel Lawrence Leussing, Jr., Cincinnati, Ohio
B.A. '45, University of Cincinnati; M.S. '47, University of Illinois. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Iron-Thioglycolic Acid Complexes. Major Adviser: Prof. I. M. Kolthoff.

Mary Walz Loewus, Duluth
B.A. magna cum laude '45, M.S. '50, University of Minnesota. Major: Agricultural Biochemistry. Minor: Physical Chemistry. Thesis: Interactions Between Enzymes and Competitive Inhibitors. Major Adviser: Prof. D. R. Briggs.

Dale C. Marcoux, Topeka, Kan.
B.S. '29, M.B.A. '37, University of Kansas. Major: Economics. Minor: Political Science. Thesis: *The Level of the Federal Personal Income Tax Exemption*. Major Adviser: Prof. W. W. Heller.

Murray Lloyd Miller, Toronto,
Ontario, Canada

B.A. '41, M.A. '42, University of Toronto.
Major: Geology. Minor: Metallurgy. Thesis:
The Igneous-Metamorphic Complex of the
St. Siméon Area, Quebec. Major Adviser:
Prof. G. M. Schwartz.

Albert Groombridge Moat, Spring
Valley, N.Y.

B.S. '49, M.S. '50, Cornell University. Major:
Bacteriology. Minor: Agricultural Biochemistry.
Thesis: The Role of Biotin in Carbohydrate
Metabolism. Major Adviser: Prof. H. C. Lich-
stein.

Gordon Matthew Alfred Mork,
Minneapolis

B.S. '31, University of North Dakota; M.A.
'42, University of Minnesota. Major: Educa-
tional Psychology. Minor: Education. Thesis:
Effects of an In-Service Teacher Training
Program on Pupil Outcomes in Fifth and
Sixth Grade Science. Major Adviser: Prof.
P. O. Johnson.

Arnold Curtis Osterberg, Rochester
B.A. '42, State University of Iowa. Major:
Pharmacology. Minor: Physiological Chemistry.
Thesis: A Method for Testing Analgesic Drugs
in Animals. Major Adviser: Dr. R. N. Bieter.

Ronald Merrill Peterson, Brookings,
S.D.

B.S. '47, Colorado State College of Agricul-
ture and Mechanic Arts; M.S. '49, University
of California. Major: Horticulture. Minor:
Plant Genetics. Thesis: Breeding Behavior of
the Strawberry with Respect to Time of
Blooming, Time of Ripening, and Rate of
Fruit Development. Major Adviser: Prof. A.
N. Wilcox.

Soledad Espejo Samonte, Manila,
Philippines

B.S.E. '47, University of Santo Tomas; M.A.
'49, University of the Philippines. Major: Edu-
cation. Minor: Educational Psychology. The-
sis: The Program and Supervision of Eleme-
ntary Student Teaching in Three Mid-West-
ern Teacher Educating Institutions and Their
Implications for Teacher Education in the
Philippines. Major Adviser: Prof. P. R. Grim.

Robert Dewey Sauerbrunn, Jonesboro,
Ill.

B.S. '47, Southern Illinois State University.
Major: Analytical Chemistry. Minor: Physical
Chemistry. Thesis: The Analytical Chemistry
of Osmium Tetroxide. Major Adviser: Prof.
E. B. Sandell.

John Leo Sheard, Sturbridge, Mass.
B.A. cum laude '45, M.A. '47, Harvard Uni-
versity. Major: Inorganic Chemistry. Minor:
Analytical Chemistry. Thesis: The Chemistry
of Oxygen Fluoride (I)—A Study of the
OF₂-Ferrocyanide Reaction. Major Adviser:
Prof. T. D. O'Brien.

Solomon Sinclair, Winnipeg, Mani-
toba, Canada

B.S.A. '32, M.Sc. '37, University of Sas-
katchewan. Major: Agricultural Economics.
Minor: Economics. Thesis: The Role of Sub-
sidies in Farm-Mortgage Credit. Major Ad-
viser: Prof. O. B. Jesness.

Willard Octive Stibal, St. Cloud

B.E. '39, St. Cloud State Teachers College;
M.A. '48, University of Minnesota. Major:
Education. Minor: Educational Psychology.
Thesis: An Analysis and Critical Evaluation of
Hollerith-Type Punched Card Methods in
Connection with Student Records and Reports
at the University of Minnesota. Major Ad-
viser: Prof. M. G. Neale.

Doctor of Philosophy in Surgery

Melvin August Block, Evansville, Ind.
B.S. '42, M.D. '44, Indiana University. Major:
Surgery. Minor: Pathology. Thesis: A Study
of Renal Hemodynamics with Emphasis on
the Influence of the Renal Nerves. Major Ad-
viser: Dr. K. G. Wakim.

Davitt Alexander Felder, St. Paul
B.S. '38, Rollins College; M.D. '42, Yale Uni-
versity. Major: Surgery. Minor: Physiology.
Thesis: Anatomical and Clinical Correlations
of Phlebography of the Lower Extremities.
Major Adviser: Dr. O. H. Wangenstein.

Edward Eaton Mason, Minneapolis

B.A. '43, M.D. '45, State University of Iowa.
Major: Surgery. Minor: Pathology. Thesis:
A Study of Iodide Transport in Living Cells.
Major Adviser: Dr. G. E. Moore.

CAPS AND GOWNS

AN EXPLANATION

In the medieval city, clothing not unlike that worn by those participating in this commencement was common. The modern academic costume has evolved from the dress of the medieval guilds and the early religious orders.

Today, everyone with a college or university degree may wear the black academic gown. Hoods, which are omitted by seniors who are candidates for degrees, are worn by graduates. At the University of Minnesota, the lining of the hood has a maroon chevron on an old gold ground to represent the University colors. A University faculty member who holds a degree from another college or university wears the colors of his own alma mater.

Distinctions between sleeves indicate the type of degree held by the wearer. A long, pointed sleeve indicates a Bachelor's degree, while a long, closed sleeve with a slit near the upper part of the arm designates a Master's degree. A round, open sleeve marks a Doctor's degree.

The velvet edging on hoods is the color which stands for the field of study of the gown's wearer. It may be white for Arts and Letters, gold-yellow for Science, maize for Agriculture, Forestry, and Home Economics, slate for Veterinary Medicine, or light blue for Education. Orange denotes Technology; dark blue, Philosophy; purple, Law; green, Medicine; and pink, Music. Public Health is shown by salmon pink edging, Dentistry by lilac, Pharmacy by olive, and Commerce and Accounting by drab.

The Doctor's costume also has velvet trimming on the rest of the gown, including crossbars on the sleeves. The trimming may either be black or may match the color of the hood edging.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidate is an honor student.

Caps, or mortarboards, too, have significance. The President of the University is the only one who may wear a velvet cap and a gold tassel.

For the Master's and Doctor's degrees the tassels are always black, but candidates for the Bachelor's degree at this commencement wear tassels which indicate their school or college 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 of the Institute of Agriculture	maize
College of Education.....	light blue
School of Business Administration.....	drab
College of Pharmacy	olive
Law School	purple
College of Medical Sciences.....	green
Graduate School.....	black



UNIVERSITY OF MINNESOTA

Senior Reception

March 1953

- The members of the Senior Class, their relatives and friends are invited by President and Mrs. 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.
- Assisting in the Reception are members of the Senior Cabinet; Grey Friars and Iron Wedge, senior honorary organizations for men; Mortar Board, senior honorary organization for women; Chimes, junior honorary organization for women; and Phoenix and Silver Spur, junior honorary organizations for men. These students have maroon and gold identifications.
- Those in the receiving line will be President and Mrs. J. L. Morrill and Miss Darlene Ludtke, president of the Senior Cabinet. New and old presidents of Mortar Board, Grey Friars, and Iron Wedge will present all guests to those in the receiving line.
- All guests are urged to register at the appropriate tables presided over by members of Phoenix and Silver Spur. The signed pages will be bound and preserved by the class of 1953.
- Punch will be served. The young ladies presiding at the punch tables are members of Chimes.
- The Senior Cabinet has arranged for an official photographer to be on hand at the Reception to take pictures of senior class members and their friends and relatives at a nominal fee.

THE
UNIVERSITY OF MINNESOTA

Announces Its



June Commencement
1953

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. 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 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 E. E. Novak, New Prague

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 has this year celebrated its one hundred and second 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 doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—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 112,500 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 nearly 19,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, 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, and recreation and health consultants give effective aid and 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 its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, poliomyelitis, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, supersonics and transonics, to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the Minneapolis Symphony, the University Artists Course, radio station KUOM, the University Theatre, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly 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 to be constructed and for the great Mayo Memorial building to be erected over the coming months. Through the American Legion and auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart diseases.

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 University Alumni Association and the Greater University Fund and to return as frequently as possible to visit us here at the University.

Order of Events *

THE ASSEMBLING OF THE AUDIENCE: As guests reach the Minneapolis Campus of the University of Minnesota from 7:00 to 7:30 p.m., they will be interested in hearing the Flemish bells being played from Northrop Memorial Auditorium; Mr. J. Frederic Goossen, M.A. '50, carillonneur. No seats for the commencement exercises in Memorial Stadium are reserved. All open entrances to the Stadium may be used.

PRELUDE CONCERT: From 7:30 to 8:00 p.m., the University of Minnesota Concert Band, Mr. Gerald R. Prescott, Bandmaster, conducting.

Prologue from "Divertimento for Band" - - - Vincent Persichetti
Youth Triumphant, Overture - - - - - Henry Hadley
Meditation from "Thais" - - - - - Massenet
Evening Star from "Tannhäuser" - - - - - Wagner

James Scheu, Baritone

Cake Walk from "Suite of Old American Dances" - - Robert R. Bennett
Allegro Vivace from "Organ Sonata in D Major" - Alexandre Guilmant
Echoes from Memorial Stadium - - - - - James "Red" McLeod

PROCESSIONAL:

Huldigungsmarsch, Homage March - - - - - Wagner
Triumphal March from "Aida" - - - - - Verdi

PROCESSIONAL: The processional, made up of all candidates for degrees, faculty members, and regents 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 and Tactics; 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; School of Veterinary Medicine of the Institute of Agriculture; College of Education; School of Business Administration; College of Pharmacy; Law School; School of Dentistry; College of Medical Sciences; Graduate School. University faculty members, regents, and distinguished guests will be last in the line of march.

PRESENTATION OF COLORS: As the color guard, made up of University Army ROTC and Air ROTC Cadets, and Naval ROTC Midshipmen, enters the Stadium, the audience will rise.

* In the event of rain, Commencement exercises will be held in the basketball section of Williams Arena. Due to 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 in so far as the physical facilities of Williams Arena permit, will the Order of Events planned for the Stadium be carried out in the Arena.

Order of Events

THE NATIONAL ANTHEM: The entire audience, still standing, and Mr. Roy A. Schuessler, M.A., Associate Professor 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 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 audience still standing): The Reverend Gordon W. Hagberg, Director, Disciples of Christ Student Fellowship at the University.

CHARGE TO THE CLASS: President James Lewis Morrill, LL.D., President of the University.

CONFERRING OF COMMISSIONS: Vice President Malcolm M. Willey, Ph.D., Vice President, Academic Administration, will introduce Colonel Robert T. Connor, USA, Professor of Military Science and Tactics; Captain Doyle M. Coffee, USN, Professor of Naval Science; and Colonel Kermit D. Stevens, USAF, Professor of Air Science and Tactics, who will present the candidates for commissions in their respective branches of the Armed Services. The oath of office will be given by Colonel Connor; the commissions, by staff members in the respective branches.

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., University Extension; Dean H. T. Morse, Ph.D., General College; Dean E. W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Assistant Dean J. W. Buchta, Ph.D., Chairman of the Faculty, University College; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Harold Macy, Ph.D., College of Agriculture, Forestry, and Home Economics, and the School of Veterinary Medicine of the Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Prof. Earl B. Fischer, Ph.D., College of Pharmacy; Dean M. E. Pirsig, LL.B., Law School; Dean W. H. Crawford, D.D.S., School of Dentistry; Dean H. S. Diehl, M.D., College of Medical Sciences; Dean T. C. Ble-gen, Ph.D., Graduate School.

Order of Events

PRESENTATION OF DIPLOMAS: With Dean of Students E. G. Williamson, Ph.D., presiding, all members of the June graduating class will pass across the stage in columns of four and will 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 Mr. Roy A. 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.

TAPS: The University Concert Band.

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

First Lieutenant, Dental Corps

Ronald Lyle Albright, Lafayette
Harry Joel Hanson, Jr., Lake Bronson

Robert Warren Iverson, Minneapolis
Richard Stanley Law, St. Paul

First Lieutenant, Medical Corps

Donn Ellis Leuzinger, Minneapolis
James Christian Melby, Duluth

Thomas Leo Schafer, Minneapolis

Second Lieutenant, Coast Artillery Corps

John Richard Albers, St. Paul
Dennis James Bushnell, Tamarack
Donald Forrest Carlson, Albert Lea
John Lawrence Chapman, Minneapolis
William Merritt Drum, St. Paul
Eric Alexander Erickson, Jr., Minneapolis

Richard Charles Jenson, Minneapolis
Gordon Ferdinand Lindgren, St. Paul
Robert Wallace Seabloom, St. Paul
Richard Henry Shadrick, Jr., Minneapolis
William Gale Tryon, Minneapolis

Second Lieutenant, Corps of Engineers

William Thomas Larson, Stanchfield
Jack E. Lindeman, Minneapolis
Rudolph Roger Moen, Montevideo

Richard Hoffman Sundblad, Long Lake
Robert Leon Thorson, St. Ansgar, Iowa

Second Lieutenant, Medical Service Corps

Don Alex Dinndorf, Albany
Glendis Jerome Einess, Climax
Joseph Matthias Greeman, St. Paul
David Edwin Herman, St. Paul

Milton George Knutson, Starbuck
Russel Leroy Skoe, Pine River
Frank Joseph Windisch, St. Paul

Second Lieutenant, Ordnance Corps

Russell Warren Fallstad, Minneapolis
Robert William Joseph, St. Paul

Bruce Richard Lockway, Minneapolis
Orville Burdean Paulson, St. Paul

Second Lieutenant, Quartermaster Corps

Gregory Joseph Gaffey, Alden	James Louis Meade, Minneapolis
Glenwood William Gilson II, Wayzata	Lyle Lester Nelson, Farmington
Wallace Owen Knowles, Minneapolis	Walter Martin Ostrem, Minneapolis
Leo Daniel Kuechenmeister, Minne- apolis	Thomas James Sinna, St. Paul
John Walter Mashek, St. Paul	Laverne Palmer Sorenson, Blooming Prairie
	Paul Gregg Zerby, St. Paul

Second Lieutenant, Signal Corps

Gerald Lawrence Ahmann, St. Paul	Roger Gayle Lambert, Minneapolis
Ralph Curtis Burton, Minneapolis	Wayne Ralph Sather, Billings, Mont.
Richard George Gerner, St. Paul	

Second Lieutenant, Transportation Corps

Larry Leroy Bailey, Minneapolis	Marvin Paul Levin, St. Paul
Ronald Lee Fraser, St. Paul	George Henry Morrill, Anoka
Robert Allen Gordon, Oshkosh, Wis.	David Lee Palm, Minneapolis
Richard Allen Gregory, Billings, Mont.	George Lewis Sumner, Washington, D.C.
Robert Norman Johnson, Minne- apolis	David Raymond Uppgren, White Bear Lake

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Neil Michael Bealka, Chaska	Marshall Edison Hill, Ely
Walter Hollows Brown, Jr., St. Paul	Robert James Huston, Minneapolis
Charles Robert Carlsen, Decorah, Iowa	Dwight Bruce Johnson, Blue Earth
Dean Eugene Clabaugh, Charlotte, N.C.	Kerron Drake Johnson, St. Paul
Richard William Clarke, St. Paul	John Mathew Kavanaugh, Aberdeen, S.D.
Donald Gene Erlandson, Ruthton	Keith Arvid Krusemark, Alexandria
Grant Franklin Haggquist, Jr., Minne- apolis	Phillip Curtis Linwick, Minneapolis
Brian Kenneth Hannula, Minneapolis	Maurice Joseph Nelson, Brainerd
George Calvin Hanson, Redwood Falls	Frederic Louis Nystrom, New Ulm
	Frederick Stanley Olson, New Ulm
	Oscar Emanuel Sanden, Jr., St. Paul

Ensign, USNR

John Charles Gustafson, Maynard	Charles Robert Svendsen, Minneapolis
Charles Kyle Peterson, St. Paul	

Ensign, SC, USN

Duane LeRoy Addison, Marshall
David Wayne Fagerness, Rushmore
Arthur Lennart Kalleberg, Minne-
apolis

Harvey Theodore Olson, Oelwein,
Iowa
Robert Edward Roseen, Minneapolis
Knutte Prieur Temte, La Crosse, Wis.
James Marsh Thomson, Jr., Hopkins

Ensign, SC, USNR

Richard James Williams, St. Paul

Second Lieutenant, USMC

Kenneth Dale Erickson, Winona

Second Lieutenant, USMCR

James Martin Olander, Faribault

DEPARTMENT OF AIR SCIENCE AND TACTICS

Second Lieutenant, USAF Reserve

Thomas Joseph Abeln, Minneapolis
Edmund James Amidon, St. Paul
David John Breault, Somerset, Wis.
Robert Alan Brown, St. Paul
Donald Gene Butler, St. Paul
John Zosel Dahl, Duluth
Jerome Rudolph Davis, Duluth
Edward Copelan Ellis, Jr., Owatonna
Ronald William Fagerstrom, Minne-
apolis
Richard Allen Fisher, Minneapolis
Larry Arthur Hammond, Minneapolis
Russell Andrew Hannen, St. Paul
Gerald Randolph Hedeem, Newport
John Charles Henry, Hastings
Franklin Harold Kriewaldt, Clinton-
ville, Wis.
Thomas Anthony Lennon, Minne-
apolis

Percy Marple Lowe, Jr., Minneapolis
Cornelius Daniel Mahoney, Jr., Min-
neapolis
Paul William Mielke, Jr., St. Paul
Richard Duane Palon, Minneapolis
James Peter Penn, Minneapolis
Ronald Bruce Pitsenbarger, St. Paul
Carlyle George Pohlman, Lakefield
Morrey Lee Salkin, Minneapolis
Arthur William Sear, Jr., Minneapolis
Arthur Andrew Sehlin, Jr., Minne-
apolis
Richard Eustis Stiles, Minneapolis
Susumu Tamanaha, Wailuku, Maui,
T.H.
William Fayette Toevs, Edina
Curtis Guy Williams, Des Moines,
Iowa
Warren Theodore Wier, Lake Elmo

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 Certificate

Percy J. Feany, St. Paul
Kenneth A. Holmgren, St. Paul
Melvin J. Holte, Minneapolis

Chester L. Rimarcik, Minneapolis
Samuel Rubenstein, Minneapolis

Engineering Certificate

Shannon Griffith, St. Paul

Industrial Engineering Certificate

Frederick A. Perlich, St. Paul

Mortuary Science Certificate

H. Thorne Helgesen, Minneapolis
Joseph Robert Judge, Milbank, S.D.

David Francis Schwietz, St. Paul

Associate in Mortuary Science

David Edgar Boldt, Faribault
James Aurit Kluegel, Lambertton
Thomas James Markovich, A.A., Ely
Gerald Eugene Mishler, Minneapolis
Donald Walter Peterson, Buffalo
Dale Everett Stroud, Mabel

Charles Nicholas Wenner, B.S., Cold Spring
George Robert Werness, B.B.A., Minneapolis
Eugene Peter Willwerscheid, Jr., St. Paul

GENERAL COLLEGE

Associate in Arts

John Jay Abbott, White Bear Lake
Donald Arthur Anderson, St. Paul
Fred Lee Anderson, Stillwater
Neal Evan Anderson, St. Paul
Richard Duane Anderson, Minneapolis

Donald David Belzer, Minneapolis
Lennart Leeroy Benson, Minneapolis
Joan Patsy Binman, St. Paul
Gordon Thoren Brandsness, St. Paul
Mildred Caroline Bregel, Mahanomen
Richard Joseph Bren, Excelsior

Sally Jean Bush, Minneapolis
 Allen Earle Carlson, Minneapolis
 Patrick George Carpenter, South
 St. Paul
 Theodore Hughes Chalgren, Minne-
 apolis
 Robert Charles Emerson, Minneapolis
 RaeAnne Extrand, Brainerd
 Thomas Jack Feldmann, St. Paul
 Thomas Anthony Felling, Minne-
 apolis
 Carole Sue Franer, Minneapolis
 Ronald Leonard Fullerton, Minne-
 apolis
 Patricia Joan Grindeland, Minneapolis
 Francis Alan Guertin, Minneapolis
 Russell Oscar Haglof, St. Paul
 Georgeane Mary Hanson, Minneapolis
 John Richard Hilborn, Minneapolis
 Gary Dahlyn Hoover, Minneapolis
 Mary Lou Houck, Minneapolis
 John Abdon Jarka, Browns Valley
 Einer Lee Jensen, Minneapolis
 Helen Kathryn Kasper, Minneapolis
 Raymond Albert Komischke, St. Paul
 Robert A. Kramer, Minneapolis
 Denis Lange, Ivanhoe
 Peter Bernard Letch, St. Paul
 Earl Floyd Lewis, Minneapolis
 Dennis James Magee, Minneapolis
 Howard Farrell Marcotte, St. Paul
 Charles Arthur McConville, Minne-
 apolis

Robert John McNamara, Hastings
 Robert James Micknal, International
 Falls
 Wayne E. Murphey, Robbinsdale
 Richard Alfred Nymoen, Minneapolis
 Alvin Floyd Olesky, Minneapolis
 James Eduard Olson, North St. Paul
 Robert Runbeck Olson, St. Paul
 Lynn Sommer Ormes, Minneapolis
 Daniel George Osmek, Glencoe
 Willis Delano Peterson, Harris
 Darryl Stanley Raitz, Minneapolis
 Philip Reilly, Minneapolis
 Elinore Frances Ridgley, Minneapolis
 Sue Roberts, Minneapolis
 Charles A. Robinson, Minneapolis
 Patrick Eugene Rodgers, Anoka
 Richard Joseph Roeglin, Minneapolis
 Marcelyn Fey Sanborn, Minneapolis
 Ramedo Joseph Saucedo, St. Paul
 James Ronald Soltau, Duluth
 Delores Jean Stengel, Canton, S.D.
 Phyllis Marmion Storberg, St. Paul
 Clarke Charles Sundblad, Long Lake
 George Frank Theros, Minneapolis
 William Richard Torgerson, St. Paul
 Patrick Charles Turnbull, Minne-
 apolis
 Sonia Nancy Weeks, Minneapolis
 Etta Rae Weinberg, Minneapolis
 Donald Anthony Williams, St. Paul
 Thomas B. Wright, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Rochelle Lee Applebaum, St. Paul
 Harold Earl Augustine, Minneapolis
 Charles Henry Berg, Minneapolis
 Thomas Francis Burke, St. Paul
 Cathleen Merry Callaghan, Minne-
 apolis
 Paula Gay Carlson, Minneapolis
 Rita Maryann Carrell, St. Paul
 Alexander Wasyl Chainyiv, Minne-
 apolis
 Grace Bernice Clausen, Minneapolis

Marcia Beverly Dinner, Little Falls
 Jeanne Ann Dunn, Minneapolis
 Jeannine Irene Eix, Little Falls
 Martin Henry Goldberg, St. Paul
 Sybil Sue Goldman, Minneapolis
 Carole Ann Goldvarg, St. Paul
 Barbara Jean Gow, Minneapolis
 Zoemarie Graham, Minneapolis
 Audrey Winifred Holmquist, Mound
 Alexander Jerold Jacklin, Kennewick,
 Wash.

Beverly Joyce Johnson, Minneapolis
 Diana Nell Johnson, Excelsior
 Phyllis Leona Johnstone, Minneapolis
 Martin William Jordan, Jr., Edina
 Joanne Ellen Klise, Robbinsdale
 Harriet Ann Labovitch, St. Paul
 Loretta Eve Labovitch, St. Paul
 Arthur John Landberg, Minneapolis
 Rosalee Levine, St. Paul
 Joanne Doris Lidholm, Robbinsdale
 Lois Jean Ludwig, St. Paul
 Marlys Jeanette Lunderberg, Minneapolis
 Reva Margolis, Minneapolis
 Shirley Ann Michel, Crookston
 Stanley Marvin Nielsen, St. Paul
 Barbara Ann Nordwall, St. Paul
 John Harley Randell, Minneapolis
 Nancy Alice Rodine, St. Paul
 Evelyn Rae Rosen, St. Paul
 Lois Sandra Rosenblum, St. Paul
 Gerald Rosenzweig, Minneapolis
 Esta Delle Rothstein, St. Paul
 Nancy Claire Royce, Brainerd
 John Michial Schorn, Minneapolis
 Lorraine Segal, St. Paul
 Truen Barbara Short, St. Paul
 Susan Marie Smilow, Minneapolis
 Adrienne Joyce Snelling, Hastings
 Beverly Puccio Stair, Minneapolis
 Donna Mae Steingas, International Falls
 Dean William Stensrud, Hartland
 Natalie Warschauer, Minneapolis
 Walter Eugene Wilson, Minneapolis
 Barbara Gloria Winokar, St. Paul
 Carla Ann Winterfield, St. Paul

Bachelor of Arts

Thomas Joseph Abeln, Minneapolis
 Burton Ivan Abramson, Minneapolis
 Duane LeRoy Addison, Marshall,
 SUMMA CUM LAUDE
 Mary Gabriel Alberts, St. Paul, CUM
 LAUDE
 Robert Harris Allen, Jr., Minneapolis,
 MAGNA CUM LAUDE
 LeRoy Allen Altermatt, Minneapolis
 Donald Sabel Andersen, Minneapolis
 Barbara Jane Anderson, Minneapolis,
 MAGNA CUM LAUDE
 Constance Claire Anderson, Hillsboro,
 N.D., MAGNA CUM LAUDE
 Louise Marilyn Anderson, A.A., Will-
 mar
 Robert Mauritz Anderson, St. James,
 CUM LAUDE
 Kenneth Ronald Arras, Thief River
 Falls, CUM LAUDE
 Mary Etta Arthur, A.L.A., Minnc-
 apolis
 Sammy Assam, Sioux Falls, S.D.,
 MAGNA CUM LAUDE
 Helen Star Bagby, Huron, S.D.
 Stanley Baldinger, St. Paul
 Alexander M. Barac, St. Paul
 Darrell Nicholas Barnett, Minneapolis
 Ardys Joan Barry, Minneapolis
 Dorothy Bradberg Beard, Mound
 Ann Louise Becker, Hibbing, CUM
 LAUDE
 Jeanne Audrey Becker, Minneapolis
 Ruth Fuller Becker, Redwood Falls
 Nancy Bowen Bell, Minneapolis
 David Bender, Minneapolis, MAGNA
 CUM LAUDE
 Diana Louise Berger, Minneapolis
 John Leon Berthiaume, Cloquet
 Marlys Joyce Bicek, St. Paul
 Jean Anne Bigelow, A.A., Fargo, N.D.
 Dana Lovee Blakkolb, Bonesteel, S.D.
 John David Bliedorn, A.A., Pipestone
 Helen Marcia Bloom, Stillwater
 Arlyn V. Bodal, Excelsior
 Georgia Boosalis, Minneapolis
 Donald Arthur Borchardt, Alma Cen-
 ter, Wis.
 Virginia McVey Bosworth, St. Paul
 Gilbert Warren Bovee, Turton, S.D.
 Robert Gordon Bratcher, St. Paul
 Walter Edward Bratt, Minneapolis
 David John Breault, Somerset, Wis.
 James Allen Bridgeman, Duluth,
 SUMMA CUM LAUDE
 James Howard Bridges, Minneapolis

Jeanne Margaret Brix, Minneapolis
Eileen Rose Brown, A.A., England
John Milton Brown, St. Paul, CUM

LAUDE

Kenneth Gilbert Brown, Benson
Walter Hollows Brown, Jr., St. Paul
Mamie Bucholz, R.N., Wagner, S.D.
Patricia Ann Buck, St. Paul
Thomas Francis Burke, St. Paul
David Edson Burrington, Rapid City,
S.D.

Bette Joan Burt, Minneapolis
Inger Elisabeth P. Caldwell, Minne-
apolis

David Clayton Callaway, Minneapolis
Malcolm Lumley Campbell, Ells-
worth, Wis.

William Sylvester Cargill, Excelsior
Charles Robert Carlsen, Decorah,
Iowa

Anne Fowler Carlson, Minneapolis,
CUM LAUDE

Donald Forrest Carlson, Albert Lea
Harvey Jay Chiat, Minneapolis
Phyllis Jane Chisholm, St. Paul

John Benedict Christiansen, Minne-
apolis

Nancy Jean Christianson, Minneapolis
Loretta Ann Christopherson, Minne-
apolis

Donald James Churchill, Minneapolis
Donna Voeltz Clark, Minneapolis
Marion Patricia Clarke, St. Paul

John Horace Cleland, Jr., Minneapolis
Thomas Edward Collins, Minneapolis
Thomas Hermann Comfort, Minne-
apolis, MAGNA CUM LAUDE

John Webber Cook, Minneapolis,
CUM LAUDE

John Mason Corbell, Minneapolis
Ralph Ward Corey, St. Louis Park
Jane Dixon Cracraft, Minneapolis

Mabelle Jayne Rugg Crawford, Austin
Howard Gilbert Cross, Salem, Ore.
Molly Johanna Culligan, St. Paul,
CUM LAUDE

Marilyn Ann Culver, Minneapolis
Bertram Fletcher Cunningham, Minne-
apolis

Robert Royal Curran, Minneapolis,
CUM LAUDE

John Zosel Dahl, Duluth
Richard Albin Dahlin, Cokato
Eugene Kennard Dahlman, Minne-
apolis

Gladys Jean Dardis, International
Falls

Donald Claude Darnell, Minneapolis
Richard Cooper Davidson, Minne-
apolis

Richard LaVern Davis, Minneapolis,
CUM LAUDE

Sally Ann Decker, Hasblouck Heights,
N.J.

Robert Paul DeHavilland, Minne-
apolis MAGNA CUM LAUDE

Frank Joseph DeMars, Jr., St. Paul
Sylvia Irene Diegnau, St. Paul

Robert Elmer Dinsmore, Cedar,
MAGNA CUM LAUDE

Edward Lawrence Doheny, Mil-
waukee, Wis.

Richard Haydon Douglass, Lakefield
Wallace James Drake, Minneapolis

Dale Patrick Dunham, Minneapolis
Michael William Dunn, Minneapolis

Floyd Josef Earnest, Duluth
Theodore Thomas Edblom, Minne-
apolis

Richard Lee Eddy, St. Paul
James Eugene Engel, Minneapolis,
MAGNA CUM LAUDE

Philip Joseph Epstein, St. Paul
Carol Ann Erickson, Ironwood, Mich.

Duane Gordon Erickson, Minneapolis,
CUM LAUDE

Millard John Erickson, Stanchfield,
CUM LAUDE

Janice Caroline Ericson, Minneapolis
Donald Gene Erlandson, Ruthton,
CUM LAUDE

Gordon William Erskine, St. Paul
Joan Marie Fagerlie, Minneapolis

Ronald William Fagerstrom, Minne-
apolis

Catherine McLane Ferguson, St. Paul
John Norton Ferguson, St. Paul, CUM
LAUDE

Dorothy Ferrell, Minneapolis
Shirley Mae Finley, Minneapolis

Richard Allen Finnegan, Minne-
apolis, CUM LAUDE

Joan Julia Fischer, Minneapolis, CUM LAUDE
 Elizabeth E. Fisher, Minneapolis
 Raymond Howard Flaten, St. Paul
 Daniel James Fleischhacker, St. Paul
 Duane Vernon Franke, Minneapolis
 Judith Lael Friedland, Minneapolis
 Katherine Cashman Frost, Oak Terrace
 Martin Zolle Fruchtman, Minneapolis
 Robert Bernard Fruchtman, Minneapolis
 James Edward Frykdahl, Duluth
Caroline Shigeko Fukumoto, Pahala, T.H., CUM LAUDE
Janis Galejs, Sinole, Latvia, CUM LAUDE
 David Russ Ganfield, Hastings
 Leigh Joseph Gard, Red Wing
 Lyman Eugene Geary, Red Wing
Helen Catherine Gellhorn, St. Paul, MAGNA CUM LAUDE
 Marilyn Julianne Gerecke, Winona
 Sabina Anne Godfredson, Minneapolis
 Janelle Jeffers Godfrey, Golden Valley
 Lloyd William Goerke, Red Lake Falls
 Stanley Morton Goldberg, Minneapolis
 Barbara Edythe Goldfus, Minneapolis
 Robert Parks Goodmundson, Montevideo
 Kurt Axel Goranson, B.S., Minneapolis
Baylee Gordon, Minneapolis, CUM LAUDE
 Robert Allen Gordon, Oshkosh, Wis.
 Chesney Orville Gottschalk, Brookings, S.D.
 Kenneth James Grant, Jr., Minneapolis
 Harold Ernest Gray, Salol
 Lorraine Fay Greenberg, St. Paul
 Richard Alan Greenberg, St. Paul
 Thomas T. Grimshaw, Minneapolis
John Arnold Gronvall, Hopkins, CUM LAUDE
Lucille Marie Gullingsrud, Minneapolis, CUM LAUDE
 John William Haas, Big Timber, Mont.

Marion Stella Haertel, St. Paul
 Ernest Albert Hallgren, Minneapolis
 Roger Bernard Hallgren, Cologne
 Donna Jean Halling, Minneapolis
 Shirley Ann Hammargren, Minneapolis
 Johnie Wright Hammond, Charlotte, Texas
 Paul Richard Hartig, Minneapolis
 Herbert John Hatcher, Minneapolis
 Daniel Gillmore Hawkins, St. Paul
Royal Clifford Hayden, Jr., Red Wing, MAGNA CUM LAUDE
 Robert James Healy, Chatfield
 Gerald Randolph Hedeen, Newport
 Jeanne Valerie Heiberg, Minneapolis
 Douglas Robert Heidenreich, St. Paul
 Ralph Alois Heiser, Plain, Wis.
 Richard Warren Helgerson, Mt. Vernon, S.D.
 Yvonne Irene Hentges, Minneapolis
 James Ellsworth Heule, Minneapolis
 Marshall Edison Hill, Ely
 William Thomas Hillard, St. Paul
 Lois Joan Hilleren, Benson
 Albert Arthur Hinman, Minneapolis
 Janice M. Hipple, Ortonville
 James Joseph Hite, St. Paul
 Harold Lay Hodgkinson, St. Louis Park
 Cletus Marcel Hohn, A.A., Sauk Rapids
 Beatrice Joan Holbeck, Fergus Falls
Gordon Wayne Hovde, Minneapolis, CUM LAUDE
 Nancy Lee Hullsiek, Deephaven
John David Hultkrans, Minneapolis, MAGNA CUM LAUDE
 Joan Beyne Hunter, Minneapolis
 Jocelyn Martin Hurd, St. Paul
 Alan Charles Hymes, Minneapolis
 Constance Mac Isaacson, Minot, N.D.
 James Lawrence Jacobson, Duluth
 Ruth Marie Jacobson, Thief River Falls
Patricia Joanne Jaeger, Minneapolis, MAGNA CUM LAUDE
 Melvin Leslie Jensen, A.S., Zim
Muriel Lucile Jensen, St. Louis Park, MAGNA CUM LAUDE

Beverly-Anne Johnson, Minneapolis,
 MAGNA CUM LAUDE
Diane Corinne Johnson, Minneapolis
Donald Stanley Johnson, St. Paul,
 CUM LAUDE
Dwayne Odell Johnson, Hoffman
Dwight Bruce Johnson, Blue Earth
Gerald Lee Johnson, Minneapolis
James Albert Johnson, St. Paul
Jean Roslyn Johnson, Hartley, Iowa
Keith Richard Johnson, St. Peter
Kerron Drake Johnson, St. Paul
Millicent Hope Johnson, St. Paul,
 MAGNA CUM LAUDE
Paul Frederick Johnson, Minneapolis
William Carlyle Johnson, Minneapolis
Bruce Robert Johnston, Minneapolis
William Henry Johnstone, Mound,
 CUM LAUDE
Richard Paul Jones, Jr., Deer River,
 CUM LAUDE
John William Josse, Minneapolis,
 CUM LAUDE
Lillie Anna Marie Junge, Elkston,
 S.D.
John Omar Kangas, Kettle River,
 MAGNA CUM LAUDE
Sherman Henry Kantor, Minneapolis
Sylvia Zeita Kaster, A.L.A., St. Paul
John Fredrick Kaufman, St. Paul
Thomas John Kempf, Red Wing
Diana Lee Kennelly, Minneapolis
Doris Berks Kienholz, Minneapolis
Jack Burge King, Omaha, Neb.,
 MAGNA CUM LAUDE
Patricia Eileen King-Ellison, Colum-
bia Heights, MAGNA CUM LAUDE
Paul Myron Kjeldergaard, St. Paul,
 CUM LAUDE
George Klinger, Minneapolis, MAGNA
 CUM LAUDE
Irene Kosiak, Chisholm
Mary Sue Krebs, St. Paul, MAGNA CUM
 LAUDE
Terry Jane Kruse, Minneapolis
James William LaFave, Morris
Harley Allen Lande, Cross Lake
Camilla Ione Langguth, Minneapolis,
 MAGNA CUM LAUDE
Joan Patricia Larson, Robbinsdale
Theodore Lowell Larson, Wanamingo
Peter Frederik Lee, Minneapolis
Anne Elizabeth Lehmicke, Stillwater
Gorden Arthur Lentz, Minneapolis
Glenn Marcus Lewis, Jr., Minneapolis
Dorothy Taylor LiaBraaten, Hibbing
Dale Carlyle Lindquist, Mound
Roger Edward Linnemann, St. Joseph,
 CUM LAUDE
Marilyn Louise Loken, Minneapolis
Donald Harold Long, Minneapolis
John Frederick Longtin, Minneapolis
Carol Louise Lothringer, Minneapolis
Rex Lovrien, Minneapolis
Emma Faye Lowery, Cedar Rapids,
 Iowa
Lowell Frederick Ludford, Minne-
 apolis
Louella Jean Lund, Thief River Falls
Duane Stanley Lundquist, Minne-
 apolis
Leslie Ray Lynn, Jr., West Concord
Fred Alexander Lyon, Minneapolis
Donald Orville Madsen, Minneapolis
Charles David Malmer, Albert Lea
William Charles Mansur, Jr., Elk
 River
Benjamin Ellis Marsh, Jr., Minne-
 apolis
Betty Jean Marsh, St. Paul
Dorothy Elizabeth Martinson, Two
 Harbors
Bonnie Gaskill Martz, St. Paul,
 MAGNA CUM LAUDE
Marjorie Clarice Marx, Minneapolis
Colin Paul Masica, Minneapolis,
 MAGNA CUM LAUDE
Clifford Charles Mathias, Winona
Frances Grace Mayberg, Minne-
 apolis
James Bolton McBurney, St. Paul
Robert Hogan McDermott, Minne-
 apolis
Elsie Peck McGillicuddy, Minne-
 apolis
William James McGrath, Minneapolis
Helen Louise McKenzie, Rochester
Nanette Marion McNiff, Minne-
 apolis, MAGNA CUM LAUDE
Helen Rosemary McNulty, Minne-
 apolis

Charles William Meehan, Covington,
 Ky., CUM LAUDE
 Charles Edward Mertensotto, New
 Ulm
 Jean Carolyn Methven, Minneapolis
 Paul William Mielke, Jr., St. Paul
 David Carlton Miller, Minneapolis
 Marilyn Louise Miller, A.A., Des
 Moines, Iowa
 Herbert Martin Modelevsky, St. Paul
 Paul Gerald Moe, Granite Falls,
 MAGNA CUM LAUDE
 James Moffat, A.A., Minneapolis
 Nancy Jean Moseid, Minneapolis,
 CUM LAUDE
 Patricia Louise Mosley, Minneapolis
 Wayne Marshall Myrum, St. Peter,
 MAGNA CUM LAUDE
 Ilgvars Janis Nagobads, Riga, Latvia,
 CUM LAUDE
 David Herman Neerland, Minneapolis
 Jean Adams Neilson, A.A., Minne-
 apolis
 Donald Frederick Nelson, St. Paul,
 MAGNA CUM LAUDE
 Maurice Joseph Nelson, Brainerd
 Robert John Nelson, St. Paul
 Charlotte Maye Nicholls, Minneapolis
 Lowell Allen Nissen, Fergus Falls,
 MAGNA CUM LAUDE
 Joseph P. Nistler, Oklee
 Lincoln George Nolte, Minneapolis
 Audrey Lorraine Notvik, Minne-
 apolis, CUM LAUDE
 Joseph L. Nyomarkay, Minneapolis,
 CUM LAUDE
 Frederic Louis Nystrom, New Ulm
 James Martin Olander, Faribault
 Myron Donald Olmanson, St. Peter
 Patricia Arlyn Olnes, Moorhead,
 MAGNA CUM LAUDE
 Clarette Grace Olson, Minneapolis
 Jean Ann Olson, Constance
 Kenneth Palmer Olson, Minneapolis
 Merriam Leslie Olson, St. Paul
 Eugene Alex Olszewski, St. Paul
 Faith Klass Orenstein, St. Paul, CUM
 LAUDE
 Walter Martin Ostrem, Minneapolis
 Richard Duane Palon, Minneapolis
 Harold Joseph Panuska, St. Paul
 Orville James Pardau, Watertown,
 S.D.
 Chandler Freemont Pauling, St. Paul
 David Lewis Paulson, Heron Lake
 Marilyn Lois Pearson, Robbinsdale,
 MAGNA CUM LAUDE
 Arnt Benjamin Pederson, Albert Lea
 Borgny Ann Peterson, Minneapolis,
 MAGNA CUM LAUDE
 Charles Kyle Peterson, St. Paul
 Clifford Wayne Peterson, North
 Branch
 Elaine Harriet Peterson, Minneapolis
 Wilford Gene Peterson, A.A., Min-
 neapolis
 Edgar Donald Pillow, St. Paul
 Donald Lawrence Pitcock, Tulsa,
 Okla., CUM LAUDE
 James Thompson Potter, Madison,
 Wis.
 Gordon Lewis Prchal, Montgomery
 William Edmund Puffer, St. Paul
 John Hale Ramlo, LaCrosse, Wis.
 Richard Conrad Reiter, St. Paul
 Ernest Theodore Rekow, Fosston,
 CUM LAUDE
 Harold LeRoy Renollet, Grand
 Rapids, CUM LAUDE
 Annette Elizabeth Richard, Minne-
 apolis
 John Corliss Richards, Minneapolis,
 CUM LAUDE
 Robert Henry Ridders, Minneapolis
 Alan Dale Riley, Minneapolis
 John Robert Rilling, Wausau, Wis.,
 SUMMA CUM LAUDE
 Martin Edward Rockwell, Minne-
 apolis
 Filmore Stanley Rodich, Minneapolis
 John Alex Roegge, Pine City
 Harlan Hugh Roepke, St. Paul
 James Henry Rolfe, Escanaba, Mich.
 Dale LaVerne Rose, Minneapolis
 Loren Rothstein, St. Paul, MAGNA
 CUM LAUDE
 Jerome Howard Rudolph, Minne-
 apolis, CUM LAUDE
 George E. Sadek, St. Paul
 Marlene Berkman Salkin, Minneapolis
 Morrey Lee Salkin, Minneapolis
 John Howard Sandbo, Minneapolis

John Lee Sander, Detroit Lakes
 Gerald Leonard Sauer, St. Cloud
 Rose Marie Savelkoul, Minneapolis,
 SUMMA CUM LAUDE
 Robert Seymour Schafer, A.L.A.,
 Waubun
 Richard William Schaller, St. Paul
 Edward Gary Schatz, St. Louis Park
 Joyce Elaine Schlemmer, West St.
 Paul, MAGNA CUM LAUDE
 Stephen Schloss, Sioux Falls, S.D.
 John Isaac Schlossman, Highland
 Park, Ill.
 Elizabeth Ann Schmitt, Minneapolis,
 MAGNA CUM LAUDE
 Frank John Schneider, Minneapolis
 Roger Delbert Schulz, A.A., St.
 Peter
 Robert Theodore Schwartz, Minne-
 apolis
 John Edward Schwarz, Minneapolis
 Lyall Arthur Schwarzkopf, Minne-
 apolis
 Robert Wallace Seabloom, St. Paul
 Arthur William Sear, Jr., Minne-
 apolis
 Minna Gerber Shapiro, St. Paul,
 CUM LAUDE
 John Marlowe Sheehan, Winona
 Marie Clare Sheppard, Minneapolis,
 MAGNA CUM LAUDE
 Freddie Sherman, Minneapolis,
 MAGNA CUM LAUDE
 Sam Shragowitz, Minneapolis, CUM
 LAUDE
 Patricia Ann Sieff, Excelsior
 Melvin Edward Sigel, Duluth
 Kenneth Orland Skelton, Lamberton
 Janet Armstrong Skidmore, Minne-
 apolis
 Beth Hopfe Slocum, Austin, MAGNA
 CUM LAUDE
 John Edward Smith, Minneapolis
 Mary Jean Smith, Heron Lake, CUM
 LAUDE
 John Sombeck, St. Paul
 Jacqueline Jane Spillers, Minneapolis
 Paul Henning Spong, Minneapolis
 Barbara Ann Stafne, Rochester, CUM
 LAUDE
 John Arthur Stahlberg, Sandstone

Nancy Louise Stark, Minneapolis
 Ernest Luther Steen, Parkland,
 Wash., SUMMA CUM LAUDE
 Irving Roy Stoddard, A.L.A., Soudan
 Nancy Chappell Stokes, Minneapolis,
 SUMMA CUM LAUDE
 Wallace Leslie Stormoen, A.A., Min-
 neapolis
 Judith Lee Strand, Hibbing
 Harold Jerome Stulberg, Minneapolis,
 MAGNA CUM LAUDE
 Donald Maurice Sudor, St. Paul
 Judie Elena Swanson, Minneapolis
 Ralph Buford Swanson, Minneapolis,
 MAGNA CUM LAUDE
 William Paul Swanson, St. Paul, CUM
 LAUDE
 Gloria Wanda Swanstrom, Minne-
 apolis
 Clarence Lee Swartout, Minneapolis
 Florence Dorothea Swenson, Dawson
 Susumu Tamanaha, Wailuku,
 Hawaii
 Joseph Modest Tambornino, Mound,
 CUM LAUDE
 James Arthur Tamte, A.S., Virginia
 Inez Mae Tastad, A.L.A., Gary
 Carmen Patricia Theimer, Minne-
 apolis
 Louie Myron Thomas, Virginia
 Earle Glenn Thompson, St. Paul
 Herbert Stanley Thompson, Belfast,
 Ireland
 Katherine Augusta Thulin, Minne-
 apolis
 Constance Wynne Tjaden, Pierre,
 S.D.
 Cornelia Curley Toole, St. Paul
 Thomas Bruce Torgerson, Willmar
 Roy Toyama, Minot, N.D., MAGNA
 CUM LAUDE
 John William Trojohn, Woodlake
 Cherrie Patricia Turner, St. Paul
 Melvin Roy Underdahl, Kenyon
 David Raymond Uppgren, A.L.A.,
 White Bear Lake
 Barbara Ann Uzlik, A.A., Austin
 Thomas Oliver VanKrevelen, St. Paul
 James Gould VanOsdol, Mahtomedi
 John Wesley Voth, Mountain Lake
 Nancy Lee Wagner, St. Paul

Nancy Cora Ward, Waseca
Esther Marion Waterman, Minot,
N.D.
Robert Francis Weiss, St. Paul
Earl Robert Wettstein, Minneapolis
Leslie Thomas Whipp, Gary, S.D.
Charles Danforth Willey, St. Paul
Richard James Williams, St. Paul
Thomas Henry Wilson, St. Cloud
Nancy Withington, Rocky River,
Ohio, CUM LAUDE
Dorothy Andrea Witt, Minneapolis

Calvin Keith Wojahn, A.L.A., West
St. Paul
Norma Jean Wolander, Minneapolis
Robert C. Wong, St. Paul
Charles Frederick Woods, Winona,
MAGNA CUM LAUDE
John Holden Wooley, Slayton
Hubert Yasuo Yamamoto, Koloa,
Kauai, T.H.
Richard Dale Yoder, St. Paul
Donald Roger Zastrow, Wayzata

Bachelor of Science

Naomi Lois Alpert, Minneapolis
Marjorie Joy Apter, Minneapolis
Peggy Ann DuBoe, A.A., St. Paul
Carol Diana Hebrink, Renville
Jolayne Joyce Jacobson, Minneapolis
Ann Marie Moilanen, Alexandria

Judith Fairgrieve Rottschaefer, Min-
neapolis, MAGNA CUM LAUDE
Beatrice Moen Walker, Hinckley,
MAGNA CUM LAUDE
Florence Wen, B.A., M.A., Peking,
China
Reuben Daniel Wenzel, Raymond

Bachelor of Science in Library Science

Gene Phillip Agre, B.A., Cottonwood
San Bankman, B.A., Virginia
Martha Coleman Bray, B.A., St. Paul
Frances Mazo Butwin, B.A., St. Paul
Johanna Catherine Collins, B.B.A.,
Minneapolis
Peter William Demery, B.A., South-
hampton, N.Y.
Yiew Min Ma, LL.B., M.A., Canton,
China
Phyllis Arlene McCarthy, B.A., Min-
neapolis
Jeanine Ann Moravec, B.S., Aberdeen,
S.D.

Robert John Olson, B.A. cum laude,
Minneapolis, CUM LAUDE
Florence Irene O'Rourke, A.L.A.,
B.A., Wibaux, Mont., CUM LAUDE
Mildred Axness Orthun, B.A., Minne-
apolis
Josephine Augusta Rocca, B.A., Iowa
City, Iowa
George Edward Skinner, B.A., Olivia
Mildred Ruth Strand, B.A., Champlin
Margaret Susan Sweetser, B.A., B.S.,
M.A., Ph.D., Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

Mary Louise Edinger, Minneapolis
Herschel S. Epstein, Minneapolis,
CUM LAUDE
Robert Kenneth Erickson, St. Paul

John Andrew Fibiger, Minneapolis,
SUMMA CUM LAUDE
Elliott Gary Klein, St. Paul
Gloria Mae Lindberg, St. Paul, CUM
LAUDE

Homer William Mitchell, A.A., Minneapolis, CUM LAUDE
Janet Muriel Newhouse, Minneapolis
Ethelyn Sonja Olson, St. Paul

Catherine Josephine Remington, Minneapolis
Herbert Arthur Stade, Fairmont

Bachelor of Science

Aloysius Godfrey Fahsl, St. Cloud
Dale Otto Gustafson, Minneapolis
Mark Miller Hurd, Jr., Minneapolis

Mary Lou Esther Paulson, Minneapolis, MAGNA CUM LAUDE

INSTITUTE OF TECHNOLOGY

Technical Aid Certificate

William Arnold Anderson, Cushing
Lawrence Merton Benson, Minneapolis
Gordon Thoren Brandsness, St. Paul
Byron Luke Burgstahler, Glencoe
James Michael Casey, Minneapolis
Roy Bryan Coley, Robbinsdale
William George Conrad, Minneapolis
Leif Donald Dahl, Minneapolis
Richard George Gerner, St. Paul
Richard Joseph Hegerle, Minneapolis
Theodore William Miller, Jr., St. Paul

Victor Erland Olson, A.A., Minneapolis
Douglas Wilford Park, Minneapolis
Donald Eugene Reynolds, Minneapolis
Robert Albert Roser, Hopkins
James Sharon Rugg, Minneapolis
Donald Henry Stechmann, Zumbrota
John Lewis Sundquist, St. Paul
Ronald Douglas Walther, Minneapolis

Bachelor of Science

Gerald Edward Anderson, Minneapolis
Jason Carl Annis, Minneapolis, WITH HIGH DISTINCTION
Glendon Maynard Benson, Minneapolis
Philip Leon Binstock, Minneapolis, WITH DISTINCTION
Kenton Thomas Bloom, Minneapolis, WITH DISTINCTION
Boris Boskovich, Kinney, WITH HIGH DISTINCTION
Joseph Brinda, Minneapolis, WITH HIGH DISTINCTION
Dana Peter Carlson, Red Wing, WITH DISTINCTION
Richard William Clarke, St. Paul, WITH DISTINCTION

Robert Gary Claybaugh, Wayzata, WITH HIGH DISTINCTION
Eugene Edward Connors, Osceola, Wis., WITH DISTINCTION
Bruce Charles Dale, St. Louis Park
Robert Emil Danielson, Deer River, WITH HIGH DISTINCTION
Rodney David Driver, Minneapolis, WITH HIGH DISTINCTION
Edward Carl Erickson, Cloquet, WITH DISTINCTION
James Stanley Fink, Robbinsdale
Leonard Leo Fogarty, Minneapolis, WITH DISTINCTION
Donald Charles Friedman, Eau Claire, Wis., WITH DISTINCTION
Clayton Frederick Giese, Minneapolis, WITH HIGH DISTINCTION

Richard Fidelas Grantges, Minneapolis, WITH DISTINCTION
 James Leslie Grunnet, Minneapolis, WITH DISTINCTION
 Laurence Stanford Hall, St. Paul, WITH DISTINCTION
 Russell Andrew Hannen, St. Paul, WITH DISTINCTION
 Richard Edward Harder, Fairmont, WITH DISTINCTION
 Walden Leo Heino, Coleraine, WITH HIGH DISTINCTION
 James Edward Holte, Minneapolis, WITH DISTINCTION
 Robert James Huston, Minneapolis
 Keith Arvid Krusemark, Minneapolis
 Gary John Kurowski, Fargo, N.D., WITH HIGH DISTINCTION
 John Allen Lindquist, Minneapolis, WITH DISTINCTION
 Jerome Hoban McGough, B.A., St. Paul
 Donald Mervyn Meter, Richfield, WITH HIGH DISTINCTION
 Donald Lincoln O'Brien, South St. Paul
 Roger Keith Olen, Minneapolis, WITH DISTINCTION

Roy Edwin Olson II, Minneapolis
 William Oliver Pederson, St. Paul, WITH DISTINCTION
 James Peter Penn, Minneapolis
 Paul Sejr Petersen, Tyler
 Marvin Arthur Peterson, Hibbing, WITH DISTINCTION
 Richard Dean Reinhart, Austin, WITH DISTINCTION
 Kenneth Arthur Rydell, Duluth, WITH DISTINCTION
 Lawrence Elmer Samstad, Minneapolis, WITH DISTINCTION
 Knut Skaar, Hardanger, Norway, WITH DISTINCTION
 Roger Bruce Swanson, St. Paul, WITH HIGH DISTINCTION
 Thomas Edward Swenson, Minneapolis, WITH DISTINCTION
 Kenneth Orval Thompson, Drummond, Wis., WITH DISTINCTION
 Robert Quinton Tickle, Minneapolis, WITH DISTINCTION
 Warren Freyschlag Wade, Minneapolis, WITH HIGH DISTINCTION
 Hugo Donald Wahlquist, Ardsley, N.Y.
 Tai Tsun Wu, Shanghai, China, WITH HIGH DISTINCTION

Bachelor of Aeronautical Engineering

Boris Boskovich, Kinney, WITH HIGH DISTINCTION
 William Paul Engel, Malibu, Calif.
 James Leslie Grunnet, Minneapolis, WITH DISTINCTION
 Dean Lewis Johnson, Robbinsdale

Roy Edward Larson, St. Paul, WITH DISTINCTION
 Floyd Ray Livingston, Anaheim, Calif.
 James Peter Penn, Minneapolis
 Kenneth Orval Thompson, Drummond, Wis., WITH DISTINCTION

Bachelor of Agricultural Engineering

Jerome A. Gockowski, Minneapolis
 Kurt Torwald Gunard, St. Paul
 J. Charles Gustafson, Maynard
 John Joseph Hennen, Morris, WITH HIGH DISTINCTION

Loren Dennis Kronlokken, Sacred Heart
 Roger John Nelson, Montevideo
 Edward Milo Norum, Minneapolis

Bachelor of Architecture

Paul Shigeo Chikamori, Honolulu,
T.H.

John Paul Damberg, Eveleth, WITH
DISTINCTION

Michael Bowen Defiel, B.A., St. Paul
Donald Frederick Drews, B.A., Min-
neapolis, WITH DISTINCTION

William Lawrence Fay, B.A.,
Luverne

Franklin Ellard Gerholz, Minneapolis
Richard Raymond Griffith, B.A.,
Wauwatosa, Wis.

Paul Bishop Hammersmith, B.A.,
Milwaukee, Wis.

Irwin Helge Kilstofte, B.A., Winona
Norman Keith Perttula, A.S., Virginia
Reynold Marvin Roberts, B.A., Min-
neapolis

Robert Leon Thorson, St. Ansgar,
Iowa, WITH DISTINCTION

Albert Gerard Voza, Minneapolis
Leonard Arthur Widen, Milwaukee,
Wis.

Wallace Eugene Wilcox, Minneapolis
Lloyd John Williams, B.A., Minne-
apolis

Richard F. Zejdlik, East Grand Forks

Bachelor of Chemical Engineering

Neil Michael Bealka, Chaska
Roderick Gerald Beck, Mountain
Iron

Kenton Thomas Bloom, Minneapolis,
WITH DISTINCTION

Vernon Edwin Denny, A.A., Austin,
WITH HIGH DISTINCTION

Murray Sydney Florence, Winnipeg,
Manitoba, Canada, WITH HIGH
DISTINCTION

Donald R. Mosher, Minneapolis

John Elless Moy, St. Paul
Donald Lincoln O'Brien, South St.
Paul

Donald Lee Peterson, South St. Paul
Richard Dean Reinhart, Austin, WITH
DISTINCTION

Vernon Rodger Tate, Isle
Donald James Wynnemer, Waseca,
WITH DISTINCTION

Donald Anthony Yurek, North
St. Paul

Bachelor of Civil Engineering

Edward Walter Anderson, Duluth
Harald Paul Bakke, Steinsland, Nor-
way

Ludwig Bann, Hibbing

Stanley Bann, Hibbing

Edvin Carl William Bohlman, Walla
Walla, Wash.

Dale Everett Capon, Minneapolis

James William Dresser, Winona

Donald Richard Gundy, Newport

Robert Karl Gustafson, St. Paul

Roy John Hansen, Minneapolis

Thomas Arthur Hawkinson, Detroit
Lakes

Robert Arthur Hoff, St. Paul

Robert James Huston, Minneapolis

William Eugene Jensen, Minne-
apolis

Richard Arthur Johnson, Stillwater

Donald Frederic Laurence, Minne-
apolis

Wilbur Ronald Liebenow, Plainview

James Ronald Lofffield, Minneapolis

Herbert John Mieras, Dodge Center

Robert Emmet Miller, Humboldt

Earle LaVerne Neville, Mahtomedi

Gerald Michael O'Neill, Minneapolis

Roy Lawrence Ostergren, B.S., Litch-
field Park, Ariz.

Irvin Morris Peterson, Minneapolis

Thomas Norman Rodeberg, Monte-
video

Alexander Bohdan Rudavsky, St. Paul
 Kenneth Arthur Rydell, Duluth,
 WITH DISTINCTION
 Lawrence Elmer Samstad, Minneapolis,
 WITH DISTINCTION
 Arthur Andrew Sehlin, Jr., Minneapolis
 George Thomas Semple, St. Paul,
 WITH DISTINCTION
 Walter Lee Spannaus, Hutchinson

James Edward Storms, St. Paul,
 WITH HIGH DISTINCTION
 Thomas Edward Swenson, Minneapolis,
 WITH DISTINCTION
 Robert Quinton Tickle, Minneapolis,
 WITH DISTINCTION
 Thomas Edward Vavra III, Minneapolis
 Donald Cleeland Walker, Lewiston
 Deane M. Wenger, Minneapolis
 William Rodney Youngren, Duluth

Bachelor of Electrical Engineering

Philip John Aase, Kenyon, WITH
 HIGH DISTINCTION
 Roland Ernst Anderson, Pierz
 Alan Cutler Anway, Minneapolis
 Philip Leon Binstock, Minneapolis,
 WITH DISTINCTION
 Phillip Donald Blais, Remer
 William Alan Bradley, Minneapolis
 Stuart Lincoln Bristol, Minneapolis
 James Michael Bruzek, New Rich-
 land, WITH DISTINCTION
 Richard LeRoy Carlson, Minneapolis
 Glenn Herndon Corrington, Minne-
 apolis
 Reid Hall Curtis, St. Paul
 Jay Henry Danielson, Red Wing
 Steve Devich, Buhl
 James Schwartz Dinwoodie, Jr., St.
 Paul
 Richard Frank Dubbe, Minneapolis
 Roger Eichhorn, St. Paul
 James Stanley Fink, Robbinsdale
 Francis Joseph Flynn, St. Paul
 Leonard Leo Fogarty, Minneapolis,
 WITH DISTINCTION
 Carlyle Roland Gordon, A.A.,
 Rochester
 Lloyd Chambers Goss, St. Paul

Richard Fidelas Grantges, Minne-
 apolis, WITH DISTINCTION
 Grant Franklin Haggquist, Jr., Min-
 neapolis
 Joseph Frederick Hauber, Park
 Rapids
 Leif Kermit Jacobsen, Duluth
 Don Anthony Kramer, Vesta
 Elmer Marvin Kuehl, Albert Lea
 Robert W. Latvalla, St. Paul
 Justin Wilhelm Moen, Canton
 Roger Conrad Nelson, St. Paul
 Roger Keith Olen, Minneapolis,
 WITH DISTINCTION
 Raymond Luther Petersen, Fulda
 John Thomas Saunders, Parkers
 Prairie
 William Carlton Smith, Minneapolis
 Albert Bowen Sperry, Jr., San Fran-
 cisco, Calif.
 Roger Bruce Swanson, St. Paul,
 WITH HIGH DISTINCTION
 Norman Charles Swanstrom, Min-
 neapolis
 Miroslav Swyryd, St. Paul
 John Vincent Vold, Dresser, Wis.
 Alfred John Herman Winter, Pipe-
 stone
 Alvin Charles Winter, Ranier

Bachelor of Engineering Mathematics

Robert Allen Kegel, Minneapolis

Robert Burton Nordberg, Cambridge

Bachelor of Geological Engineering

John Thomas Tysseling, Stewartville

Bachelor of Industrial Engineering

Richard John Baken, B.S., St. Paul
John Donald Burns, Minneapolis
Robert Gary Claybaugh, Wayzata,
WITH HIGH DISTINCTION
William Nelson Handsaker, St. Paul
Roger Wallace Johnson, Chisholm
Martin Nykes Kellogg, St. Paul,
WITH DISTINCTION

George Edward Rebholz, St. Paul,
WITH DISTINCTION
Sheldon Marvin Rein, Minneapolis,
WITH DISTINCTION
Charles Robert Svendsen, Minne-
apolis, WITH DISTINCTION
William Warren Watson, Minne-
apolis

Bachelor of Mechanical Engineering

Joell Gerard Anderson, Minneapolis
Marvin Eugene Anderson, B.S., Orr
John Williams Barlass, Minneapolis
Franklin Richard Bertheau, Minne-
apolis
Kenneth Clarence Bertossi, St. Paul,
WITH DISTINCTION
DeWayne Marvin Buck, St. Paul
Richard William Clarke, St. Paul,
WITH DISTINCTION
Donald Harvey Clement, Sheboygan,
Wis.
William Floyd Coons, St. Paul,
WITH DISTINCTION
Forrest Duane Dohlin, Minneapolis
Edward Carl Erickson, Cloquet,
WITH DISTINCTION
George Victor Etem, Minneapolis
Benjamin David Melville Finch,
Duluth
John Sylvester Fitzsimmons, Minne-
apolis, WITH DISTINCTION
Milton Jerry Frisch, St. Paul
Charles Collins Griffith, Minneapolis,
WITH DISTINCTION
Donald Dean Gromberg, St. Cloud
Larry A. Hammond, Minneapolis
Russell Andrew Hannen, St. Paul,
WITH DISTINCTION
Thomas Clifford Haugen, B.A.,
Jasper
John Casimir Hermann, St. Paul

Robert George Hogan, Minneapolis,
WITH DISTINCTION
Thomas Orval Jordet, Minneapolis
John Walter Kepple, Albert Lea
Arthur Aloysius Kotz, Chicago, Ill.
Thomas Carl Larson, Clintonville,
Wis.
Richard Alan Letson, Minneapolis
Phillip Curtis Linwick, Minneapolis
Rolf Gerhart Ljungkull, St. Paul
Harold John Loehlein, Kimball
Floyd Walter Longerbone, Minne-
apolis
William Bigelow Masson, Rochester
James Alexander McFarland, Carlton
Charles Mabe Moreaux, Luverne,
WITH DISTINCTION
Mark Gary Mund, St. Cloud
James Albert Neel, St. Paul
John W. Nordenson, Minneapolis
Donn Eloyd Olson, Minneapolis
John Howard Olson, Minneapolis
John Pidany, Minneapolis
George Ray Quinn, Duluth
George Edward Rebholz, St. Paul,
WITH DISTINCTION
Jack Edwards Ross, St. Paul
Francis Sisto Settimi, A.S., Aurora
Melvin Harold Swanson, Minne-
apolis
Joseph Richard Taylor, St. Paul

Warren Freyschlag Wade, Minne-
apolis, WITH HIGH DISTINCTION
Roger Otis Wales, Minneapolis

David Burton Wamstad, St. Paul
James Allan Winbigler, St. Paul
Edward George Zoerb, Minneapolis

Bachelor of Metallurgical Engineering

Walter Nummela, Chisholm
Raymond Harold Peterson, Eveleth

John Hubert Ryan, Mahtomedi

Bachelor of Mining Engineering

Edward Merlin Ahlberg, St. Paul
Jason Carl Annis, Minneapolis,
WITH HIGH DISTINCTION

Clair Eugene Knowlton, Kenyon
Eugene Lewis Palusky, Duluth

Bachelor of Petroleum Engineering

Clayton LaRoy Anderson, St. Paul

Bachelor of Physics

Laurence Stanford Hall, St. Paul,
WITH DISTINCTION

Keith Arvid Krusemark, Minneapolis

The following Engineer degrees are granted to graduates of the University of Minnesota principally in recognition of the attainment of professional competence and judgment. They are based on not less than eight years of professional work and a thesis.

Civil Engineer

Earl John Felt, B.C.E. '31, M.S. in C.E. '33, University of Minnesota, thesis, "Factors Influencing the Physical Properties of Soil Cement."

Metallurgical Engineer

Robert William Sandelin, Minneapolis, B.S. '30, M.S. in Ch.E. '31, Chemical Engineer '38, Ph.D. '41, University of Minnesota, thesis, "Embrittlement Characteristics of Different Types of Commercial Steels and Malleable Irons Resulting from the Hot Dip Galvanizing Process."

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

Bachelor of Science

- Gary Lee Adams, St. Louis Park,
Forestry
- Fredrick James Alderink, Pease,
Agriculture, WITH DISTINCTION
- Richard Harry Aldworth, Culbertson,
Mont., Agriculture
- C. Milton Anderson, Moose Lake,
Agriculture
- Robert Charles Anderson, Chisago
City, Agriculture
- Harlan Walter Ankeny, Winnebago,
Agriculture
- Robert John Arkins, St. Paul, For-
estry
- Sally L. Ash, Hibbing, Home Econ-
omics
- Nancy Rathbone Bakke, Minneapolis,
Home Economics
- Gunnar Milton Balstad, Portland,
N.D., Agriculture
- Robert Ellsworth Barduson, Danvers,
Agriculture
- Jean Ann Barnard, Le Sueur, Home
Economics
- Alfred Nicholas Bessesen III, Minne-
apolis, Agriculture
- Billy Levester Boehne, Parkers
Prairie, Agriculture
- Dennis James Bushnell, Tamarack,
Agriculture
- Donald Gene Butler, Smithland,
Iowa, Forestry, WITH DISTINCTION
- Merry Edith Cady, Lewiston, Home
Economics
- Alain Jean Chardon, Minneapolis,
Forestry
- Robert Frank Colebank, Minneapolis,
Agriculture
- Carla Augusta Christine Cronholm,
Milaca, Home Economics
- Clifford Edwin Crosby, Jr., B.S.A.,
Minneapolis, Forestry
- David Sherwood Cross, Minneapolis,
Forestry
- Marilyn Louise Dahl, Minneapolis
Home Economics, WITH DISTINC-
TION
- Phyllis Katherine Dahl, Minneapolis,
Home Economics, WITH DISTINC-
TION
- Nancy Dalbec, Grand Marais, Home
Economics
- Jerome Rudolf Davis, Duluth, Agri-
culture
- Marillyn Joan Diamond, Minneapolis,
Home Economics
- Kenneth Karl Dykeman, A.S., Red
Lodge, Montana, Forestry
- Judith Ann Eldredge, St. Paul, Home
Economics
- Arthur McAuley Elliot, Minneapolis,
Science Specialization
- Carolyn Isabelle Erickson, Minne-
apolis, Home Economics
- Donald Duncan Ferguson, Kerrick,
Forestry, WITH DISTINCTION
- James John Field, Hutchinson, Agri-
culture
- Elgin Earl Filkins, Tracy, Forestry
- Dorothy Ann General, Keewatin,
Home Economics
- Carole Aws Graves, A.A., Madison,
Home Economics
- Ernest Russell Gustafson, Dennison,
Agriculture
- Richard Emil Haack, A.A., Brandon,
Agriculture
- Edward Henry Hahn, Hayward, Wis.,
Forestry
- Lansin Robert Hamilton, Crosby,
Forestry, WITH DISTINCTION
- Russell Elling Hanson, Minneapolis,
Forestry
- Patricia Ann Havey, St. Paul, Home
Economics
- Arnold John Heikkila, Marble,
Agriculture

- Judy Ann Hellickson, Cannon Falls, Home Economics
- Carrie Jean Hodge, Pine City, Home Economics, WITH DISTINCTION
- Genevieve Ann Johnson, Biscay, Home Economics
- Violet Bergquist Johnson, Minneapolis, Home Economics
- Linley Edward Juers, Lake City, Agriculture
- Dudley Harris Kaushagen, Lamberton, Agriculture
- Gordon Jay Kimble, Minneapolis, Forestry
- Judith Lukacs Klocksien, Budapest, Hungary, Home Economics, WITH DISTINCTION
- Clifford Martin Kohler, White Bear Lake, Agriculture
- Franklin Harold Kriewaldt, Clintonville, Wis., Agriculture
- Gordon Robert Landberg, Minneapolis, Agriculture, WITH DISTINCTION
- Roy Axel Larson, Cloquet, Agriculture
- Val Joseph Lawler, Annandale, Forestry
- Fred E. Lux, Sauk Centre, Fishery and Wildlife Management, WITH DISTINCTION
- William Robert Magnuson, Robbinsdale, Forestry
- Joan Katherine Manson, St. Paul, Home Economics
- Mary Louise Markley, St. Paul, Science Specialization, WITH DISTINCTION
- John Edward McGown, Aitkin, Forestry
- Shirley Mae Mellin, Marcell, Home Economics
- Richard David Meyer, Wayzata, Agriculture
- Don Minore, Minong, Wis., Forestry, WITH HIGH DISTINCTION
- Dee Ramsey Nelson, Wadena, Forestry
- Raleigh Polk Nelson, St. Paul, Agriculture
- Lewis Alan Nicholson, Brooten, Forestry
- Constance Ramona Nosby, Minneapolis, Home Economics, WITH DISTINCTION
- Eleanor Ann Novak, Minneapolis, Home Economics
- James Carl Oberg, Minneapolis, Forestry
- Barbara Jean Olson, Rapid City, S.D., Home Economics
- Conrad Arvid Olson, Pelican Rapids, Agriculture
- Rolf Opjorden, Jr., Minneapolis, Agriculture
- Raymond Earl Michael O'Shaughnessy, Winona, Agriculture
- Leonard Scott Partridge, Minneapolis, Forestry
- Raymond Joseph Pepoon, St. Louis Park, Agriculture
- Robert Albert Perske, Sauk Rapids, Forestry
- Curtis Clinton Pietz, Lakefield, Agriculture
- Tony Gust Psychogios, Minneapolis, Agriculture
- Gail DeMae Quarnstrom, Comfrey, Home Economics
- J. David Radford, Minneapolis, Agriculture
- Delmar Lloyd Radtke, Minneapolis, Forestry
- Dean M. Reed, Corvuso, Forestry
- Evelyn Joyce Reischauer, Blue Earth, Home Economics, WITH DISTINCTION
- Sigmund Henry Restad, Duluth, Agriculture
- David Vincent Rosdahl, St. Paul, Forestry
- Gerhardt C. Rowe, Chippewa Falls, Wis., Forestry
- Aline Delores Sabin, A.A., Tracy, Home Economics, WITH DISTINCTION
- Arnold Kristian Sandager, Northfield, Agriculture
- Paul Richard Sandager, Hills, Agriculture

- Russell Dickey Sawyer, Elgin, Agriculture
 Robert Henry Schafer, Buffalo Lake, Agriculture
 Richard Schantz-Hansen, Cloquet, Forestry
 Leon Jay Simon, St. Paul, Agriculture
 William Francis Simpkins, Prior Lake, Agriculture
 Stanley Cecil Skadron, St. Paul, Agriculture
 Randolph Alvin Skeie, Minneapolis, Forestry
 Noel Lester Smith, Rosemount, Agriculture
 Richard Eustis Stiles, Minneapolis, Agriculture
 Barbara Rae Thornton, St. Paul, Home Economics
 Dona Marilyn Tibbits, Regina, Saskatchewan, Canada, Home Economics
 Ellen M. Torkildson, Madelia, Home Economics
- Tom Kazuo Toyama, Minot, N.D., Science Specialization, WITH HIGH DISTINCTION
 Howard Wesley Venners, St. Paul, Forestry
 Paul Aloysius Walsh, Jr., St. Paul, Agriculture
 Homer Duane Wass, Worthington, Agriculture
 Donald Edwin Wegman, Douglas, Science Specialization, WITH DISTINCTION
 Warren Theodore Wier, Lake Elmo, Forestry, WITH DISTINCTION
 Richard Russell Weyrick, Grand Rapids, Forestry, WITH DISTINCTION
 Ardith Adeta Wilkens, St. Paul, Home Economics
 Dorothy Mae Wilkins, Brainerd, Home Economics
 Eileen Bertha Witte, Hector, Home Economics
 Elverne Walter Ziemke, Walnut Grove, Agriculture
 Richard Bernard Zoller, Stillwater, Agriculture

SCHOOL OF VETERINARY MEDICINE OF THE INSTITUTE OF AGRICULTURE

Bachelor of Science

- Robert William Bakke, Minneapolis
 Donald McLeod Barnes, St. Paul,
 WITH HIGH DISTINCTION
 Max Amillan Beck, Dallas, S.D.
 Jack Merle Bennett, St. Paul, WITH
 DISTINCTION
 Ernest Peter Bonde, Hutchinson
 Walter Angelus Bonnett, Minneapolis
 Clyde Loren Books, St. Paul
 Terrence Curtin, St. Paul
 Richard Frederick Dean, Blue Earth,
 WITH DISTINCTION
 Nicholas S. Dzubay, Clear Lake, Wis.
 Ronald Eugene Engel, Mason City,
 Iowa
 Fritz Paul Gluckstein, Minneapolis
- Rodney Charles Hanson, Winthrop,
 WITH DISTINCTION
 Warren Otto Hartman II, Wadena
 Roy Edwin Hendricks, Watertown
 William Andrew Horne, Chippewa
 Falls, Wis.
 Gerald Andrew Jacobson, Jacobson
 Jesse Alton Jacobson, Winthrop
 Arthur Sune Johnson, Minneapolis
 Dean Francis Johnson, Mankato
 Eugene Kenneth Karnis, Lake Park,
 Iowa
 Gene Robert Kind, River Falls, Wis.,
 WITH DISTINCTION
 Albert Leon Klingsporn, St. Paul
 George L. Koepke, Minneapolis

James Frank Krier, Hendricks
 Howard Henry Krueger, Cedarburg,
 Wis.
 Gordon Joseph Kubesh, Olivia
Laverne Clifford Larson, Bottineau,
 N.D., WITH HIGH DISTINCTION
 Alvin Dana Roy Lebeck, Grantsburg,
 Wis.
 Donald Oliver Manthei, Loretto
 Roger E. Meisner, Stillwater
 Claude James Nelson, Rapidan
 Charles Ahti Oinonen, Virginia
 Orin H. Osborn, Le Sueur
Robert W. Page, Minneapolis, WITH
 DISTINCTION
 Donald Wesley Pallesen, Fulda
Leslie Albert Payne, St. Paul, WITH
 DISTINCTION
Victor Perman, Minneapolis, WITH
 HIGH DISTINCTION

Richard George Peterson, Proctor
 Donald E. Pietz, Comfrey
John Lavird Prouty, Milwaukee, Wis.,
 WITH DISTINCTION
 Kenneth Wesley Rye, Minnetota
 Curtis Tweed Schafer, Walnut Grove
Rolland Richard Skaife, Waukesha,
 Wis., WITH HIGH DISTINCTION
 Russell Charles Smith, Portage, Wis.
 Arthur Lonnic Solie, Augusta, Wis.
 Eugene Carl Stelter, Madelia
Melvin Willard Stromberg, Quamba,
 WITH DISTINCTION
 Leland S. Sturlaugson, Langdon, N.D.
 Leroy W. Thom, Rushmore
 Edward Joseph Tomsche, Albany
 Donald Leonard Welch, Barnum
 Hugh C. Williams, New Richland
 William Andrew Zwiener, St. Paul

Doctor of Veterinary Medicine

Donald Keith Anderson, Hopkins
 Robert William Bakke, Minneapolis
 Albert Chase Batchelder, B.S., Faribault
 Max Amillan Beck, Dallas, S.D.
 Emmett Norlin Bergman, B.S., Fulda
 Ernest Peter Bonde, Hutchinson
 Gordon Dwane Brakke, Milroy
 Harry Boston Cook, B.S., Minneapolis
 Robert Edwin Dracy, Bruno
 Nicholas Steven Dzubay, Clear Lake,
 Wis.
 Donald Boyd French, B.S., Rochester
 Earl Edward Grass, B.S., Owatonna
 Harold Henry Grote, B.S., Faribault
 Douglas Duane Hagg, B.S., Hector
 Robert Francis Hammer, B.S., Alexandria
 James O. Hanson, B.S., Granada
 James H. Hessian, B.S., Belle Plaine
 Bernard Frazier Jahn, B.S., Minneapolis
 Donald Wilbur Johnson, B.S., Worthington
 Vincent Paul Kelly, B.S., Preston
 Lester Leroy Larson, B.S., Amherst
 Junction, Wis.

Wilbur Arthur Leibbrand, B.S.,
 Jordan
 Eugene Robert Lindholm, B.S., Webster,
 Wis.
 Keith Irving Loken, B.S., Sandstone
 David Francis Long, B.S., St. Paul
 George Richard Lyon, B.S., Hibbing
 Philip Joseph McDermott, B.S., St.
 Paul
 Harlan Earl Meyer, Kilkenny
 Wendell Carlyle Moberg, Taylors
 Falls
 Bohdan Roman Nechay, Minneapolis
 Lester S. Nelson, B.S., Princeton
 Donald Melvin Oolman, B.S., Adrian
 Richard Foote Palmer, B.S., Minneapolis
 Donald T. Pearson, B.S., Red Wing
 Wendell Maurice Peden, Gary, S.D.
 Gerald Wesley Peterson, B.S., Belgrade
 Richard George Peterson, Proctor
 Donald Elmer Pietz, Comfrey
 Milton Linner Pietz, B.S., Lakefield
 Francis Elroy Siegfried, B.S., Mankato
 Robert Herman Steinkraus, B.S., St.
 Paul

Elroy Milton Thom, B.S., Underwood
 Leroy William Thom, Rushmore
 Wallace Milton Wass, B.S., Worth-
 ington
 Rufus Frank Weidner, B.S., Casco,
 Wis.

Philip James Whalen, B.S., Stephen
 Stanford Joel Wilson, B.S., Round
 Lake
 Leo Anthony Zehrer, B.S., Sauk
 Centre

COLLEGE OF EDUCATION

Bachelor of Science

Ardean Oren Aafedt, Williston, N.D.
 Marilyn Irene Abelson, B.A.,
 Minneapolis
 Carolyn Jean B. Abramson, Minne-
 apolis
 Ruth Abramson, Minneapolis*
 Edmund James Amidon, St. Paul
 John Charles Amstutz, Minneapolis
 Carol Joyce Anderson, Minneapolis,
 WITH DISTINCTION
 John Robert Anderson, Detroit, Mich.
 Kenneth Oliver Anderson, B.A.,
 St. Paul
 Margaret Eleanor Anderson, A.A.,
 St. Paul*
 Roy Hilton Anderson, Virginia
 Joseph L. Anglim, Minneapolis
 Donna Gelfand Apple, St. Paul
 Margaret Rachel Bartel, St. Paul
 Harlan Edwin Bauermeister, New
 Ulm
 Neila Dorcas Beal, Maple Plain
 Jean Elouise Behonek, St. Louis Park
 Mavis Elaine Benson, Minneapolis,
 WITH DISTINCTION
 Barbara Mary Bergford, Minneapolis,
 WITH DISTINCTION
 Eunice Mildred Berglund, Hopkins
 Norma Jean Bergstrom, B.A., Worth-
 ington
 Nancy Eleanor Beseler, Minneapolis
 Ellen Annemarie Beutler, Minne-
 apolis
 Mary Osborne Bisenius, St. Cloud*
 Elmer Donald Bjornson, Pequot
 Lakes, WITH DISTINCTION
 Martha Yvonne Bliss, Minneapolis
 Alfred John Blom, Baudette

Alice Marie Bonstrom, New Brighton
 Donna Mae Bradbury, Minneapolis,
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 ter, WITH HIGH DISTINCTION
 Priscilla Brown, St. Louis Park, WITH
 DISTINCTION
 Ralph Angus Brown, Jr., Minneapolis
 William Zoltan Brust, B.A., St. Paul
 Marlene Louise Buntrock, Minne-
 apolis
 Barbara Anne Butz, St. Paul
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 Kathy A. Callas, Minneapolis
 Jacqueline Margaret Carlson, Minne-
 apolis
 Barbara Ann Cecil, St. Paul, WITH
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 Marlene Cornelia Chapple, St. Paul
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 Ulm
 Betty Jane Chute, St. Cloud
 Mary Evelyn Clark, St. Louis Park,
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 Brina Sylvia Cohen, St. Paul
 Beverly Jean Colby, Blue Earth, WITH
 DISTINCTION
 Royce V. Colby, Jackson
 Florence Ann Coleman, Hallock,
 WITH DISTINCTION
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 Leone Bauer Crowlie, Minneapolis,
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 Iowa*
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 Norma Jean Davison, A.A., Minne-
 apolis
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 Marilyn Lou DeLano, Mankato
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 Texas, WITH DISTINCTION*
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 Eileen Mae Dougherty, Minneapolis,
 WITH DISTINCTION
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 WITH DISTINCTION
 Helen Marlene Duffy, Minneapolis,
 WITH DISTINCTION
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 Vivian Ruth Elving, Minneapolis
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 apolis
 Thure Hadley Erickson, Minneapolis
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 Marilyn Claire Evans, Minneapolis
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 apolis
 Charlotte Falk, Minneapolis
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 HIGH DISTINCTION
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 Patricia Ann Fawcett, Minneapolis
 Joyce Marie Fischer, Minneapolis
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 Florence Eva Fowler, Fairmont
 Clementine Theresa Fox, Keewatin
 Eugene Kenneth Fox, Wadena
 Marianne Dix Fox, Northfield*
 Lillian Paxon Franklin, Milwaukee,
 Wis., WITH DISTINCTION*
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 Delphie Bernitt Fredlund, Minne-
 apolis, WITH DISTINCTION*
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 apolis
 Robert Dean Gelle, Osakis, WITH
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 Florence E. Grover, St. Paul
 Donna Grubich, Buhl
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 apolis
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 WITH DISTINCTION
 Kathleen Boyd Hammer, Minneapolis,
 WITH DISTINCTION
 James B. Hancock, Minneapolis
 Peggy Ann Harrington, St. Paul
 Donald James Harris, St. Paul
 Joan Elaine Harrison, B.A., St. Paul
 Mary Ann Hauge, Elbow Lake
 Berniece Elizabeth Haylock, Maquo-
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 Mary Elizabeth Hedeau, Minneapolis
 Frances Marie Heinicke, Elgin, Ill.,
 WITH DISTINCTION*
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 Ethel Marion Helland, Cylinder,
 Iowa, WITH HIGH DISTINCTION
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 Joyce Anita Hill, Forest City, Iowa

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- Betty Jean Hjort, A.A., Foreston
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- Joann Eklund Hoffman, Minneapolis
- Joanne Hogan, Minneapolis
- Joe Hogan, B.A., Minneapolis
- Doris Thelma Holien, St. Paul
- Mildred Walborg Holm, Minneapolis*
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- Carol Jo Hoyt, Minneapolis
- Mary Jane Huesmann, Caledonia
- Jacqueline Helen Hughes, Minneapolis
- JoAnn Hunt, Rochester
- Barbara Ann Ivey, St. Paul
- Robert John Jacob, Anoka
- May Schwartz Jacobs, B.A., Minneapolis
- Mildred Lorraine Jaisle, Farmingdale, N.Y.*
- Joanne Opal Jamieson, Minneapolis
- Marilyn Jean Janneck, St. Paul
- Dorothy Estelle Jarvinen, Cloquet
- Eugene Harold Jenkins, Mankato
- Helen Margaret Jenniges, Minneapolis
- Lola May Jensen, Minneapolis
- JoAnn Stump Jergenson, Duluth
- Dorothy Gayle Johnson, B.A., San Diego, Calif.
- Marlys Helen Johnson, Minneapolis, WITH DISTINCTION
- Greta Louise Johnstone, Minneapolis
- Barbara J. Jordan, St. Paul
- Joan Evangeline Jordet, Minneapolis
- Helen Jane Junge, Minneapolis
- Nancy Karon Kaufman, B.A., Minneapolis
- Nora Marie L. Keeling, Minneapolis
- Esther Viola Kellas, Minneapolis
- Helen Marie Kelly, DeGraff, WITH HIGH DISTINCTION
- Marilyn Bernice Kiedaisch, B.A., St. Paul
- Mary Kathryn Kileen, Superior, Wis.
- Rhoda Helyne Kimmel, Des Moines, Iowa, WITH DISTINCTION
- Margaret Elizabeth Kitt, Winona, WITH DISTINCTION
- John Joseph Klemensich, Ely
- Donna Mae Kline, Minneapolis
- Elizabeth Jane Kneebone, Eveleth
- Marilyn Edna Knefelkamp, Stillwater
- Susan Jane Kolliner, Stillwater
- Mary Louise Kotz, Great Falls, Mont., WITH HIGH DISTINCTION
- Genevieve Lina Kulenkamp, St. Paul
- Nancy Ann Kunau, Red Wing
- Dorothy Mary Kuraitis, Naugatuck, Conn.*
- John Edward Larkin, St. Paul
- Delores Josephine Larson, B.S., St. Paul
- John Vincent Larson, Virginia
- Richard Donald Larson, Minneapolis
- JoAnne Margaret Lauber, Hibbing
- Janet Helen Leach, Minneapolis
- Janet C. Leahy, St. Paul
- Dorothy Anne Leathers, B.A., Minneapolis
- John Roger Lehrer, A.A., Springfield
- Phyllis Leibovitz, Chisholm, WITH DISTINCTION
- Louis Edmond Leopold, Jr., Minneapolis
- Philip James Leonard, Plainview
- Marilynn Millunchick Lieberman, St. Paul
- Gordon Ferdinand Lindgren, St. Paul
- Lois Margaret Lindstrom, Minneapolis
- LaRue Elizabeth Lobitz, Waconia
- Mary Ann Lucia, St. Paul
- Darlene Nancy Ludtke, Blue Earth, WITH DISTINCTION
- Robert Bruce MacKinnon, A.A., St. Paul
- Marlis Julia Katherine Majerus, Minneapolis, WITH DISTINCTION
- Marilyn Louise Mathews, Minneapolis
- Mary Ann Mattson, Warren
- Mary Jeanette McCoy, Minneapolis, WITH DISTINCTION
- Margy Jean McGinty, Minneapolis
- David Edward McLain, B.A., St. Paul

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Nada Mijanovich, Lima, Ohio, WITH
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 Ferrol Jean Miller, St. Paul
Jeanine Mae Miller, Minneapolis,
 WITH DISTINCTION
 Lorna June Mills, Appleton
 Thomas Leroy Monte, A.A.,
 Chisholm
 George Henry Morrill, Anoka
 Dorothy Marie Muck, Buhl
 Wayne E. Murphey, Robbinsdale
 Barbara Lere McKenzie Nelson, Min-
 neapolis
 Greta Ann Nelson, Rochester, WITH
 HIGH DISTINCTION
LaVonne Diane Nelson, Center City,
 WITH DISTINCTION
 Mary Louise Nelson, Minneapolis
 Patricia Ann Nelson, Minneapolis
 Carillon Cargill Norton, B.A., Min-
 neapolis
 Margaret Gretchen Oberg, Minne-
 apolis
 Geraldine V. Olsen, Rochester
Laverne Myrtle Flentie Orwoll, Min-
neapolis, WITH HIGH DISTINCTION
 Trevor Allen Owen, Minneapolis
 Elizabeth Kahler Pagels, Brainerd
Lenore L. Anderson Palmquist, A.A.,
St. Paul, WITH DISTINCTION
 Ellsworth Eugene Panser, Minne-
 apolis
 Louise Gram Parker, St. Paul
 Roger Charles Earl Paulson, Minne-
 apolis
 Geraldine Elizabeth Pearson, St. Paul
 Mildred Pearl Peden, Gary, S.D.
 Donna Mae Pederson, St. Paul
Mary Margaret Peel, Dassel, WITH
 DISTINCTION
 Don Carl Perrine, Blue Earth
 Vernon Bert Petersen, St. Paul
Katherine Holt Peterson, Minneapolis,
 WITH HIGH DISTINCTION
Lois Marie Peterson, A.A., Rochester,
 WITH DISTINCTION
 Janet Doreen Plefkey, South St. Paul
 Rosemary Plencner, St. Paul
 Patricia Alice Pool, St. Paul
 Janice Elizabeth Preus, Minneapolis

Jacqueline B. Purdie, St. Paul
 Mary Anne Quinn, Minneapolis
 Mary Ann Raisanen, Annandale
Carol Mae Rasmussen, St. Paul, WITH
 DISTINCTION
 Margaret Deane Ray, St. Paul
 Donna Rae Rayppy, Litchfield
 Joanne Patricia Refsell, Minneapolis
Arnold Melvin Rehmann, St. Paul,
 WITH DISTINCTION
Harriet Mae Richardson, Minneapolis,
 WITH DISTINCTION
 John L. Richardson, B.A., St. Paul
 Karleen Home Rosaaen, B.S., Durand,
 Wis.
 Betty Jean Rosell, Minneapolis
Calvin Walter Rosine, St. Paul, WITH
 DISTINCTION
 Jack M. Rossetti, Minneapolis
Harriett Mary Rossi, Joliet, Ill., WITH
 DISTINCTION*
 Martha Jane Rossman, Minneapolis
Robert Link Rundorff, Minneapolis,
 WITH DISTINCTION
 Orville George Ruud, Minneapolis
 Karwyn Mary St. Onge, St. Paul
 Arlene Salita, St. Paul
 Roy Everett Sample, Minneapolis
 Harland Edward Samson, Rochester
 Herschel Graham Sando, Minne-
 apolis
 Marilyn Janet Sather, Minneapolis
 Nancy Jane Sawtelle, Mason City,
 Iowa
 Joan Theo Schall, St. Paul
 Georgiann Marie Schultz, St. Paul
 Kenneth Arnold Schumack, Minne-
 apolis
Susan Elizabeth Schwab, St. Paul,
 WITH DISTINCTION
 Mary Jean Scott, Minneapolis
 Evelyn Lorraine Searle, Geneseo, Ill.
Robert George Seath, Owatonna,
 WITH DISTINCTION
Elaine Marie Seledic, Minneapolis,
 WITH DISTINCTION
Bertha Jean Shadick, Princeton, WITH
 DISTINCTION
Marilyn Shelley, A.L.A., Minneapolis,
 WITH DISTINCTION

* Nursing Education Curriculum.

Elizabeth Garnet Sherman, Minneapolis
 Carol Jean Siems, Minneapolis
 Norene Gayle Silver, Minneapolis, WITH DISTINCTION
 Geraldine Thatcher Sime, Minneapolis
 Elsie Ann Simon, St. Paul
 Carol Lee Singer, Wells, WITH DISTINCTION
 Arnold Jerry Sirotiak, B.A., Minneapolis
 Marjorie Arlene Skog, A.A., Bay City, Wis., WITH HIGH DISTINCTION
 David Albert Skrien, Morris
 Helen Mary Skufca, A.A., Ely
 Bettina Anne Smith, Minneapolis
 MaryAnn Sobol, Denver, Colo.
 Joanne Marie Sogge, B.A., Northfield
 Marilyn Ann Solem, Chisholm
 Joan Darlene Sonmore, Minneapolis
 Alma Ruth Speidel, Waterbury, Conn., WITH DISTINCTION*
 Viola Marian Spetz, A.A., Ironwood, Mich., WITH DISTINCTION
 Sydney Bernard Spiegel, Minneapolis
 Lorraine Josephine Spielman, Chicago, Ill.*
 Joan Mary Stahmann, Minneapolis
 Martha Caroline Agnes Stark, Minneapolis
 Robert Thomas Starr, A.A., St. Paul
 Carol Jean Steger, Minneapolis, WITH DISTINCTION
 Burnette Ileen Stensrud, Freeborn*
 Margaret Alice Stone, Crookston
 David Arthur Stoppel, Minneapolis
 Francis Paul Surge, A.A., Buhl, WITH DISTINCTION
 Miriam Ruth Swan, St. Paul
 Joan Amy Swanson, Minneapolis
 Lyle Kenneth Swanson, North Branch

Suzanne Marie Swendner, St. Paul, WITH DISTINCTION
 Sheree Taffel, St. Paul
 Norma Irene B. Taylor, Crosby, WITH DISTINCTION*
 Knute Prieur Temte, La Crosse, Wis.
 Hilda Yuriko Terada, B.A., Honolulu, T.H.
 Paddy John Theis, Maple Plain
 Susan Wisard Theiss, St. Paul
 Arthur Harding Thomas, B.A., Sauk Centre
 Barbara Ann Thompson, Minneapolis
 Wayne William Thompson, Forest Lake, WITH DISTINCTION
 Janet Marie Tibbetts, St. Paul
 Yoshiko Ueunten, Minneapolis*
 Arlene Mae Viker, Minneapolis
 Iris Mae Wagner, New Ulm, WITH DISTINCTION
 Theodora Walsh, St. Paul
 Alma Gertrude A. Warlich, Battle Lake, WITH DISTINCTION*
 James Chester Warn, St. Louis Park
 Thomas Joseph Wegleitner, St. Paul
 Alyce May Welin, St. Paul
 Bonnie Jean Westby, Houston, WITH DISTINCTION
 Beverly Jean Wetterhus, St. Paul
 Kermitt Ervin Wheeler, A.A., St. Paul
 Lawrence Duane Wickstrom, Minneapolis
 Marilyn Williams, White Bear Lake
 David Scofield Wilson, Minneapolis, WITH DISTINCTION
 Joseph E. Witzman, B.A., Minneapolis
 Irma Alma Wolff, Minneapolis
 George Evert Woodward, Zumbrota
 Catherine Mary M. Youngdahl, Minneapolis
 Dorothy Zakula, A.A., Kinney

Bachelor of Science in Library Science

Jocelyn Jean Curtis, B.A., Minneapolis
 Evelyn Gimmestad Lundblad, B.S., Minneapolis

Mae Dorothy Odegard, B.S., Thief River Falls
 Katherine M. Lounberg Shepard, B.S., Minneapolis

* Nursing Education Curriculum

Master of Education

Corinne Chapman Burke, B.S., Duluth	Eleanor Bertha Olson, B.E., Minne- apolis
James Grege Cherry, Jr., B.S., Min- neapolis	John Lawrence Richardson, B.A., St. Paul
Jerome Edward Gates, B.S., Minne- apolis	William Eugene Scofield, B.S., Los Angeles, Calif.
Vivian Elaine Newstrom, B.S., Min- neapolis	Constance Eve Zierden, B.E., St. Cloud

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

Bachelor of Science

Richard Raymond Angus, Farming- ton, Agricultural Education	Virgil Carolus Hawkinson, Willmar, Agricultural Education
LeRoy Willis Asche, St. Paul, Agri- cultural Education	Doris Marie Hinz, Zumbrota, Home Economics Education
<i>Marilyn Gable Backlund, St. Paul, Home Economics Education, WITH HIGH DISTINCTION</i>	Francis Joseph Januschka, Little Falls, Agricultural Education
Nancy Lee Baker, St. Paul, Home Economics Education	LaVerne Nelson Johansen, Minneapo- lis, Home Economics Education
Jean Laurette Ballard, Minneapolis, Home Economics Education	Margaret Louise Johnson, Minneapo- lis, Home Economics Education
Lorretta Martha Banovetz, Ely, Home Economics Education	William Thomas Larson, Braham, Agricultural Education
Arleen Louise Barkeim, Winona, Home Economics Education	Percy Marple Lowe, Jr., Minneapolis, Agricultural Education
Phyllis Virginia Bowe, Elk River, Home Economics Education	Marlene Fay Ludtke, Clarks Grove, Home Economics Education
Kenneth James Byrne, Kilkenny, Agri- cultural Education	Peggy Lou Lund, Baker, Mont., Home Economics Education
Marian Louise Campbell, St. Paul, Home Economics Education	LeRoy Robert Mielke, Comfrey, Agricultural Education
Alan Olaf Dalen, Verndale, Agricul- tural Education	Marcelyn Joanne Nelsen, St. Paul, Home Economics Education
Patricia Hallberg Durkee, Excelsior, Home Economics Education	<i>Joan Margaret Nelson, Tracy, Home Economics Education, WITH DISTINCTION</i>
Alice Pauline Fisker, Minneapolis, Home Economics Education	<i>Myron Henry Nelson, Alexandria, Agri- cultural Education, WITH DISTINCTION</i>
Janet Irene Ganas, St. Paul, Home Economics Education	<i>Vilah Jean Nelson, Walker, Home Economics Education, WITH DISTINCTION</i>
JoAnne Marie Goranson, St. Paul, Home Economics Education	

- Raymond Stanley Norrgard, Milaca,
Agricultural Education
- Barbara Jean Paulson, Princeton,
Home Economics Education
- Edgar Allen Persons, Clarissa, Agricultural
Education, WITH DISTINCTION
- Layton Gene Peters, St. Paul, Agricultural
Education
- Patricia Haynes Peterson, Aitkin,
Home Economics Education
- Patsy June Peterson, Minneapolis,
Home Economics Education, WITH
HIGH DISTINCTION
- Alice Marie Rademacher, LeCenter,
Home Economics Education
- Anita Eloise Sandager, Hills, Home
Economics Education
- JoAnne Ruth Sandager, Minneapolis,
Home Economics Education
- Marilyn Joyce Schmidt, Rochester,
Home Economics Education
- George Alfred Schoen, Freeborn,
Agricultural Education
- Shirley Dawn Schwanke, Sanborn,
Home Economics Education
- Laverne P. Sorenson, Blooming Prai-
rie, Agricultural Education
- Virginia Ann Splitstoser, Morris,
Home Economics Education
- Gene William Stevermer, Easton,
Agricultural Education
- Daniel James Sullivan, Stewart,
Agricultural Education
- Earle Kilen Thompson, Hibbing,
Agricultural Education
- Morris Hobert Titrud, Clarissa,
Agricultural Education
- Millicent Kathleen Towne, Minne-
apolis, Home Economics Education
- David Glen Tuttle, Mapleton, Agri-
cultural Education, WITH DISTINC-
TION
- Robert Wayne Underwood, Grand
Rapids, Agricultural Education
- Anne Marie Wardwell, Minneapolis,
Home Economics Education
- Elwood Dwight Wessman, Dassel,
Agricultural Education
- Donald Andrew Witzel, Kasson,
Agricultural Education

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

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- George Peter Ammentorp, Eau
Claire, Wis.
- Eugene George Amoc, Keewatin
- David Reuben Anderson, Princeton,
WITH DISTINCTION
- Keith Edward Anderson, Austin
- Lawrence Carl Anderson, Minneapolis
- Kenneth Ervin Antonson, Windom
- Howard Joseph Atkins, Minneapolis
- Francis Eugene Balcik, Lakefield
- John Williams Barlass, Minneapolis
- Kenneth Clarence Bertossi, St. Paul,
WITH DISTINCTION
- David Betten, Virginia
- Harold Charles Bix, Minneapolis
- Jack Fred Blair, Durand, Wis.
- Philip John Bloedel, St. Paul
- Kenton Thomas Bloom, Minneapolis,
WITH DISTINCTION
- John Emlin Bohan, St. Paul, WITH
DISTINCTION
- Paul Arthur Borg, Virginia
- William Ralph Boyles, St. Paul
- Dean Robert Brand, South St. Paul
- William Ernest Bray, Winona
- Robert Alan Brown, St. Paul
- James Michael Bruzek, New Richland,
WITH DISTINCTION
- Richard William Burnham, Minne-
apolis
- Arnold Kenneth Carlson, Minne-
apolis
- Thomas James Carlson, St. Paul
- H. Bruce Chapman, Minneapolis
- John Lawrence Chapman, Minneapo-
lis, WITH HIGH DISTINCTION
- Carl Craig Chumbley, A.A., Rochester
- Jack Arthur Cipra, Blooming Prairie
- Howard Clifford Clune, Bovey

William Floyd Coons, St. Paul, WITH DISTINCTION
George Edward Delehanty, Montgomery, WITH HIGH DISTINCTION
Edward Francis Devaney, St. Paul
Edward C. Dicke, Long Prairie, WITH DISTINCTION
Thomas Downen, Jr., Lewiston, Mont.
Edward Copelan Ellis, Jr., Owatonna
Mary Elaine Eyrsc, Minneapolis
David Wayne Fagemess, Rushmore
Richard Allen Fisher, Minneapolis
John Sylvester Fitzsimmons, Minneapolis
Harold John Fostmeier, St. Paul
Herman Albert Friess, Rice Lake, Wis.
Charles John Geck, Minneapolis
James Giller, B.S.L., St. Louis Park
Daniel Francis Greimel, Minneapolis
Donald Edwin Gross, Minneapolis
Robert B. Gunderson, Minneapolis
Paul Henry Gust, Jr., Fergus Falls
Charles Franklin Hall, Hopkins
Kenneth Howard Hannah, Crookston
Robert Howard Harvey, Minneapolis
Burnham Dare Hawley, St. Paul
John Joseph Hennen, Morris, WITH DISTINCTION
Giorgianna Elizabeth Herman, St. Paul, WITH DISTINCTION
Robert Louis Holmquist, A.A., Minneapolis
Richard Oliver Holten, Minneapolis
James Norman Hove, Minneapolis, WITH DISTINCTION
Donald Lester Immc, Mankato
John Victor Irgens, Minneapolis
George Stuart Jenkin, St. Paul
Eugene Robert Johnson, St. Paul, WITH DISTINCTION
Robert Edward Johnson, Minneapolis
Roger Franklin Karon, Duluth
Martin Nykes Kellogg, St. Paul, WITH DISTINCTION
Gerald Albrecht Kelly, A.L.A., Minneapolis
William Franklin Kerfoot, Voorheesville, N.Y.
Philip James Kerich, Stewartville
Harlan Suby Knatvold, Albert Lea

Warren Douglas Knauer, Austin
John Karl Koll, Hardwick
Adolph Warner Kroona, Jr., Kandiyohi
Richard Tohru Kushino, Minneapolis
Milton Erving Larson, Robbinsdale, WITH DISTINCTION
Youree Victor Lejonvarn, Cannon Falls
Robert John Loberg, St. Paul
Heber Dick Lott, Chinook, Mont.
James Winslow Lundberg, Minneapolis
William Martin Luther, Minneapolis
Charles John Marboe, Minneapolis
Marvin Arthur Marohn, Annandale
Joel Irving Meade, Roseau
Edward Arnold Mehsikomer, St. Paul
Eugene Reuben Melander, Minneapolis, WITH DISTINCTION
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Raymond John Mochrle, South St. Paul
Myron Leo Mohr, Motley
Clifford George Monnie, Minneapolis
James Russell Monson, Minneapolis
Joseph Brooks Montgomery, Vacaville, Calif.
Charles Mabe Moreaux, Luverne
John Lyndsee Munns, Elk River
Orvel Lee Nelson, Elbow Lake
Sidney Allan Nelson, St. Paul
Edgar Nordgaard, Glenwood
Tom Oscar Olofson, St. Paul
Pauline Margarette Olsen, St. Paul
Harvey Theodore Olson, Oelwein, Iowa
James Christ Pamel, St. Paul
John Bruce Paterson, Minneapolis
Stanley Floyd Peschken, Minneapolis
Allen Kenneth Peterson, Minneapolis
John Vigard Peterson, Rochester
Carlyle George Pohlman, Lakefield, WITH DISTINCTION
Barry Prichard, St. Paul
Charles Leighton Quinn, Minneapolis
George Edward Rebholz, St. Paul, WITH DISTINCTION
Charles Ray Reimler, Glencoe
Sheldon Marvin Rein, Minneapolis, WITH DISTINCTION

Vernon Gordon Rodberg, Minneapolis
 Axel Dean Rosengren, Minneapolis
 Robert Jerome Rueff, Minneapolis
 Richard Stanley Sandgren, Minneapolis
 Clarence Lewis Schaffner, Jr., St. Paul
 Richard Lee Schillinger, Austin
 Gene Cyril Schlauderaff, Glencoe
 Robert George Sether, B.S.L., LL.B., St. Paul
 Eugene Gregory Shields, Minneapolis
 Gordon R. Sill, Austin
 S. Richard Silverness, B.S.L., Minneapolis
 Howard Reel Skelton, Jr., Austin
 Duane William Sorensen, Hamel
 Richard Davis Starkweather, St. Paul
 Jeanette Bernice Stelter, Echo
 Philip Mills Stone, A.A., Virginia
 James Edward Storms, St. Paul, WITH HIGH DISTINCTION
 Donald Lee Strand, Minneapolis
 Neal Franklin Strom, Minneapolis
 Charles Robert Svendsen, Minneapolis
 Melvin Harold Swanson, Minneapolis

Wendell C. Swenson, Willmar, WITH DISTINCTION
 Barry Frederic Swiler, Hayward, Wis.
 Robert Charles Talbert, Norfolk, Neb.
 Edith MaryEtta Thompson, Rahway, N.J.
 Kenneth Orval Thompson, Drummond, Wis., WITH DISTINCTION
 Robert Jerome Timm, St. Paul
 William Fayette Toevs, Edina
 John Caulfield Traynor, St. Paul
 Milo Gordon Tulberg, Mound
 Victor Serhij Vynych, Minneapolis
 Raney Wallace Walbaum, Detroit Lakes
 John V. Wallace, St. Paul
 James Arthur Ward, Sauk Rapids
 William Edgar Wardwell, A.A., Northwood, Iowa
 Stephen Edward Wholihan, Milwaukee, Wis.
 James William Wiehoff, St. Cloud
 Curtis Guy Williams, Des Moines, Iowa
 Edward Joseph Williams, Minneapolis
 Charles Wood Wright, Minneapolis
 Richard Samuel Ziegler, St. Paul

Bachelor of Science in Economics

Joseph S. Ehrman, Jr., Shorewood, Wis., WITH HIGH DISTINCTION
 James William Harkin, Minneapolis
 Alfred Eugene Hauwiller, St. Paul
 Homer Jude Knauff, Minneapolis

Marland Edward Nelson, Rochester
 Arthur David Savran, Bismark, N.D., WITH DISTINCTION
 Thomas James Sinna, St. Paul, WITH DISTINCTION

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

Bachelor of Agricultural Business Administration

Richard Jarleth Bowe, Minneapolis

Keith Eugene Jorde, Thief River Falls

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Don C. Anderson, Aitkin
Robert Leland Benedict, Benedict
Emil Blasl, Baudette
Allen Merll Conger, Minneapolis
Donald Alex Dinndorf, Albany
Leo Benjamin Domeier, Springfield
Glendis Jerome Einess, Climax
Carl Gerald Erickson, Lindstrom
Robert Martin Flicek, New Prague
Chester Clark Folsom, Mora
Robert Wayne Foster, Robbinsdale
William Gerald Freund, Minneapolis
Joseph Matthias Greeman, St. Paul
Donald George Gronlund, Duluth
Merle Marcus Hanson, Minneapolis
John Allan Hay, Minneapolis
David Edwin Herman, St. Paul
Kenneth Owen Howell, Willmar
John Joseph Hunt, Jr., Springfield
Chester Franklin Karnowski, Carlton
Michael John Karp, Faribault
Kay Marvin Kaufman, Minneapolis
Russell Farrar King, St. Paul
Dean Powell Kirkpatrick, Winnebago
Milton George Knutson, Starbuck
Edward Anthony Kozar, Bovey
Richard Frank Kuettel, St. Paul
John R. Liberg, Excelsior
Moses Lichtig, St. Paul
Joseph Milton Liss, Minneapolis
William Abner Marcotte, B.A.,
Minneapolis
Arthur M. Matsuyama, Minneapolis
Jack Ingram Morehouse, St. Paul Park
John Mathew Ness, Minneapolis
Raymond Niels Olesen, Spring Park
Gary Wilson Omodt, Houston
Wilbert Frederick Ott, Jr., Deer River
James Osborne Partridge, Owatonna
James Alfred Riesgraf, Carver
John Henry Schulz, Milwaukee, Wis.
Sister Marie Henri Grenier, Red Lake
Falls
Sister Mary Torello Van Groll,
Rochester
Sister Serena Zilka, Minneapolis
Russel Leroy Skoe, Pine River
Charles Peter Thompson, Minne-
apolis
Wallace George Utech, Bemidji
Arnold Valdemar Vasenden, Fertile
Donald Paul Weinberger, St. Paul
Frank Joseph Windisch, St. Paul

LAW SCHOOL

Bachelor of Science in Law

Allen H. Aaron, Minneapolis
John Joseph Althoff, Waverly
Gordon Ellis Bourgin, Virginia
Robert Harvey Cornell, Minneapolis
Chester Allen Dosland, Perley
Gordon Richard Erickson, A.A.,
St. Cloud
Kenneth Dale Erickson, Genoa, Wis.
James Richard Gaffey, Minneapolis
Eben Frank Gillespie, Cambridge
Jerome Alvin Gottlieb, St. Paul
Donald Edwin Gross, Minneapolis
Clinton James Hall, Carrington, N.D.
George Calvin Hanson, B.A.,
Redwood Falls
Gilbert Woodward Harries, Duluth
Keith Tilden Harstad, B.A., Har-
mony
Keith Earl Johnson, Minneapolis
Alf Robert Lce, B.A., St. Paul
Thomas Michael Libera, Winona
Philip Gregory Lind, Minneapolis
Cornelius Daniel Mahoney, Jr.,
Minneapolis
Robert Emmett McGarry, A.A.,
St. Paul

Andrew Eugene Miner, Minneapolis
 Allan Herschel Minsky, Minneapolis
 Jurgen Nowak, Littlefork
 Roger Alfons Pauly, Excelsior
 Ronald Bruce Pitsenbarger, Moorhead
 Mark Raabe, St. James
 David Peter Rask, Minneapolis

James Henry Russell, Minneapolis
 Russell Richard Sage, Minneapolis
 Vernon Delford Saxhaugh, Virginia
 John Peter Vitko, A.A., Virginia
 Robert Edward Wynne, International
 Falls

Bachelor of Laws

Joaquin Camacho Arriola, B.A.,
 Agana, Guam
 Ross Morris Brown, B.S.L., Minne-
 apolis
 Robert Harvey Cornell, Minneapolis
 John Bert Cottrell, B.S.L., Minne-
 apolis
 Isaac Foch Dashiell, B.A., Minne-
 apolis
 Morris Dickel, B.S.L., Crookston
 Chester Allen Dosland, Perley
 Robert Francis Eaton, Jr., B.A.,
 Duluth
 Stanley Efron, B.S.L., St. Paul
 Joseph Moore Finley, B.A., Minne-
 apolis
 Edward James Foley, B.A., Excelsior
 John Douglas Furuseth, B.S.L.,
 Bagley
 Joseph Robert Gadola, B.S.L., Ogilvie
 Robert Anthony Gearin, B.S.L.,
 St. Paul
 Kenneth Jack Gill, B.S., Minneapolis
 James Giller, B.S.L., St. Louis Park
 Charles Reilly Goswitz, B.A., St. Paul
 John Douglas Gould, B. of Phys. with
 distinction, Minneapolis
 Harlan Mador Goulett, B.S.L.,
 Minneapolis
 Leonard W. Grannes, B.S.L., Minne-
 apolis
 David Loren Graven, B.A., Minne-
 apolis
 Donald Edwin Gross, Minneapolis
 William I. Groth, B.A., Minneapolis
 Richard Eugene Grunert, B.S.L.,
 Minneapolis
 Gunder David Gunhus, B.S.L.,
 Browns Valley
 Raymond Alfred Haik, B.S.L., Minne-
 apolis

Carol Margretha Hansen, B.S.L.,
 St. Paul
 Robert Edgar Heath, B.A., Minne-
 apolis
 David Arnold Himmelman, B.S.L.,
 Minneapolis
 Charles Lilley Horn, Jr., B.A. with
 high honors, Minneapolis
 William Donald Howard, B.S.L.,
 Minneapolis
 Rudolph Valentino Illgen, B.S.L.,
 Illgen City
 James Henry Johnston, B.S.L., Min-
 neapolis
 Duane Everett Joseph, B.S.L., Minne-
 apolis
 Harold Kalina, B.S.L., Minneapolis
 Marlin Lavern Kastama, B.S.L., New
 York Mills
 Mitchel Ivan Kirshbaum, B.S.L.,
 Minneapolis
 William Rollins Koenig, B.S.L.,
 Minneapolis
 George Koonce, Minneapolis
 Raymond Charles Krause, B.A.,
 Wadena
 Thomas Allen Lang, B.S., Mora
 Robert Joseph Leighton, B.S.L.,
 Austin
 Thomas Anthony Lennon, B.S. in
 Chemical Engineering, Minneapolis
 Philip Gregory Lind, Minneapolis
 Merle Litman, B.S.L., Duluth
 Greer Edwin Lockhart, B.S.L.,
 Minneapolis
 William Kenneth McKibbage, B.S.L.,
 International Falls
 Terence Leo Meany, B.S.L., Austin
 Maurice John Mulvahill, Jr., B.S.L.,
 Hibbing

Miller Franklin Myers, B.S.L., Minneapolis	Richard Falk Sachs, B.A., A.L.A., Minneapolis
Arthur Sund Nelson, B.S.L., Minneapolis	John C. Schmidt, B.S.L., Le Sueur
Harold Sanford Nelson, Jr., B.S.L., Minneapolis	Philip Edgar Schwab, Jr., B.S.L., Minneapolis
V. Owen Nelson, B.A., B.S.L., Minneapolis	Alfred Sedgwick, Jr., B.S., St. Paul
Wayne Howard Olson, B.S.L., Swanville	Robert James Stenzel, B.S.L., Minneapolis
Gregg S. K. Orwoll, B.S., North Branch	Paul William Urbanek, B.S.L., Minneapolis
Wayne Gordon Popham, B.S.L., Zimmerman	Oren Nelson Westling, B.A., Minneapolis
Milton David Price, Jr., B.A., St. Paul	William Abel Whitlock, Jr., B.S.L., Minneapolis
	Robert Wiswell Winsor, B.S.L., Minneapolis

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

Janet Adele Aker, St. Paul	Helen Elaine Kohn, St. Paul
Ardis Jayne Ames, Minneapolis	Mary Marjorie McCarthy, St. Paul
Pauline Ann Amundson, Duluth	Naomi Melnarik, Minneapolis
Clarice Jean Anderson, Minneapolis	Aileyn LeVerne Renli, Canton, S.D.
Dobra Applebaum, Minneapolis	Patricia Ann Robinson, Minot, N.D.
Thais Jean Billecadeau, Grand Rapids	Phyllis Gwen Rohrer, Winona
Virginia Ann Bootz, Des Moines, Iowa	Joyce Arline Saarela, Minneapolis
Irene Antonette Bue, Ketchikan, Alaska	Beverly Forshier Scheidegger, Minneapolis
Lois Elaine Cook, Minneapolis	Jean Suzanne Schwitzky, Minneapolis
Barbara Anne Dalsin, Minneapolis	Donna M. Steingas, International Falls
Gloria Kay Emstad, Albert Lea	Barbara Louise Streich, St. Paul
Delores Elaine Fletcher, St. Paul	Martha Louina Toms, Coleraine
Susan Millicent Fuller, Minneapolis	Phyllis Emogene Wencell, Laurens, Iowa
Lola Mae Hulderson, Sioux Falls, S.D.	Rita Mari Wilczek, Little Falls
Doris Mae Johnson, St. Paul	Elizabeth Ann Wolter, St. Paul
Ruth Esther Johnson, Minneapolis	
Gayle Jupp, Regina, Sask., Canada	

Bachelor of Science

Clyde Harold Bramhall, St. Paul	Daniel George Engle, Hecla, S.D.
Frederic Berners Cuthbert, Devils Lake, N.D.	Philip Joseph Epstein, St. Paul
David William Dvorak, B.A., St. Paul	Norman Ray Erickson, Minneapolis
Theodore Thomas Edblom, Minneapolis	Reynolds John Fischbach II, St. Paul
	George Henry Gale, B.A., St. Paul
	Melvin Theodore Groska, Bertha

Robert Warren Iverson, Moorhead
 Earl Leroy Jorgensen, Minneapolis
 Claydon Robert Kern, Stillwater
 Richard Holt Klein, Minneapolis
 Robert Frank Klosky, Sturgeon Lake
 Kell Erwin Lovell, Cleveland
 Murray Manz McNair, A.S., Brainerd
 Jack William McNeil, Baudette
 Maurice Wesley Meyer, Wood Lake
 Brian Francis Murn, Ely
 Donald Wilhart Nelson, Iron
 Paul Robert Nermoe, Minneapolis
 David Roger Odell, Chaska
 Robert Francis Osterbauer, Wyoming
 Harold Joseph Panuska, St. Paul
 Marvin James Perrizo, Jasper
 Jerome Howell Prahl, New Ulm
 Robert Wayne Prochnow, Hutchinson

David Quitney, Lowry
 Arthur Eugene Richards, B.A., Anoka
 Pete Fumio Sakamoto, Minneapolis
 Lee John Sarberg, Ely
 Robert Bruce Seberg, Lake City
 Charles Lavesson Sinks, B.A., Minneapolis
 Harley Burdette Slaikeu, Milltown, Wis.
 John Richard Sprafka, Pasadena, Calif.
 Bruno Jerome Stanoch, Minneapolis
 Earle Glenn Thompson, St. Paul
 Richard McKinley Towner, Jr., Alexandria
 Keith Gardner Winkler, Sandy, Utah
 William Fredrick Yseth, Pipestone

Doctor of Dental Surgery

Ronald Lyle Albright, B.S., Lafayette
 Dale William Amundson, B.S., Duluth
 Harry Martin Andersen, B.A., Minneapolis
 Robert Leo Anderson, B.S., St. Paul
 Robert Joseph Bariletti, B.S., Minneapolis
 Raymond Charles Baron, B.S., Minneapolis
 Maurice Raymond Bjerken, B.S., Minneapolis
 Charles Allen Boline, B.S., Henning
 Richard Marshall Brace, B.A., Minneapolis
 Wilbur Martin Bunker, B.S., Olivia
 Marcuis Leonard Chart, Duluth
 William Earl Christianson, B.S., Lead, S.D.
 Frederic Berners Cuthbert, Devils Lake, N.D.
 John Alfred Dahlquist, B.S., Minneapolis
 Eldon Jay Deadrick, B.S., Paynesville
 Thomas James Deutsch, B.S., Duluth
 James Lewis Dobrin, B.A., B.S., Minneapolis
 Thomas Jean Emond, B.S., Minneapolis

Daniel George Engle, Hecla, S.D.
 Dale Irwin Curtis Erickson, B.S., St. Paul
 Norman Ray Erickson, Minneapolis
 George Henry Gale, B.A., St. Paul
 Robert Clay Gilman, B.S., Owatonna
 Richard Harry Gordon, A.S., B.S., B.A., Crane Lake
 William Francis Gorman, B.A., B.S., A.L.A., St. Paul
 Melvin Theodore Groska, Bertha
 Harold Omar Hanson, B.A., Harmony
 Harry Joel Hanson, Jr., B.A., Lake Bronson
 John Peter Hanson, B.A., Fairmont
 Stanley Phillip Hazen, B.A., Parkers Prairie
 Joseph Robert Heck, B.S., Buhl
 Gerald Thomas Hesley, A.A., B.A., B.S., Rochester
 Roscoe Paton Hylton, Jr., B.A., Minneapolis
 Leonard Robert Iverson, Jr., B.S., Glenwood
 Robert Warren Iverson, Moorhead
 Walter Gerome Iverson, B.A., B.S., Minneapolis
 Frank Douglas Jensen, B.S., Brainerd
 Earl Leroy Jorgensen, Minneapolis

Ben Thomas Kirkpatrick, B.S., Tulia,
Texas
Richard Holt Klein, Minneapolis
Richard Wadsworth Knapp, B.B.A.,
B.S., Rochester
Richard Stanley Law, B.S., St. Paul
Kell Erwin Lovell, Cleveland
Anthony LaVern Lund, B.S.,
Rochester
William Burgess McCallum, B.S.,
Hibbing
Murray Manz McNair, A.S., Brainerd
Jack William McNiell, Baudette
Brian Francis Murn, Ely
James Norman Murray, B.S., Duluth
Donald Wilhart Nelson, Iron
Gordon John Neumann, B.S.,
La Crosse, Wis.
Richard Charles Oliver, B.S., Hastings
Charles Donald Ostergren, B.A., B.S.,
St. Paul
Clifford A. Patterson, B.S., Remer
William Douglas Penny, B.S., Rolla,
N.D.
Thomas Reuben Pirsch, B.S., Minne-
apolis
Jerome Howell Prael, New Ulm
Robert Wayne Prochnow, Hutchin-
son
David Quitney, Lowry
Arthur Eugene Richards, B.A., Anoka
Lee John Sarberg, Ely
Donald Jesse Scattarella, B.S., A.A.,
Minneapolis
Fred John Schletty, B.A., B.S.,
Minneapolis
Jerome Edward Schuldt, B.S., Good
Thunder
Clair J. Scrobeck, Rochester
Robert Emmett Silha, B.S., Minne-
apolis
Harley Burdette Slaikou, Milltown,
Wis.
Bruno Jerome Stanoch, Minneapolis
Stewart Douglas Stevens, Jr., A.A.,
B.S., St. Paul
Kenneth Theodore Strauch, B.A.,
St. Paul
Ever Andrew Swanson, B.S., B.A.,
Chisholm
Richard John Swenson, B.S., Grove
City
Ray Koichi Tachibana, B.S., Minne-
apolis
Edgar George Timm, B.S., Wood
Lake
Jack Elmer Tomhave, B.S., Cloquet
Jerome Charles Ulrich, B.S., St. Cloud
Robert Owre Uppgaard, B.A., Minne-
apolis
Dale Edward Waite, B.S., B.A.,
St. Paul
Donald Frederick Watson, B.S.,
Minneapolis
Willis Arthur Welty, B.S., Big Sandy,
Mont.
Kenneth Eugene Wilson, B.A., B.S.,
Minneapolis

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Ruth Hawley Benassi, Duluth, *Medi-
cal Technology, WITH DISTINCTION**
Audrey Ann Bernstein, Minneapolis,
Medical Technology*
Donald Lester Boucher, B.A., Minne-
apolis, Medicine
Elsie Elaine Brown, Miami, Fla., Pub-
lic Health Nursing
Earl Elarth Cammock, B.A., Minne-
apolis, Medicine
Dixie Joan Cardarelle, Neillsville,
Wis., Occupational Therapy
Joan Helene Carlson, Minneapolis,
Occupational Therapy
Jane Carr, Minneapolis, Medical
Technology*

* These degrees are conferred subject to satisfactory completion of required practical work prior to December 17, 1953.

- Ruth Anne Champion, Minneapolis, Public Health Nursing, WITH DISTINCTION
- Eugene Joseph Connolly, Minneapolis, Physical Therapy
- Celia Ann Cowger, Omaha, Neb., Physical Therapy
- Luther Lenker Dehnel, B.A., Minneapolis, Medicine
- Betty Viola Dieter, Worthington, Medical Technology*†
- Helen Ruth Donatsch, R.N., Dubuque, Iowa, Public Health Nursing
- Ruth Doris Drussell, Winona, Occupational Therapy
- Norma Jean Eilts, Austin, Occupational Therapy
- Barbara Elaine Erickson, Minneapolis, Medical Technology, WITH DISTINCTION*
- Mabel Caroline Erickson, Minneapolis, Public Health Nursing
- James Kenneth Ferderer, Minneapolis, Medical Technology*
- Robert Francis Fischer, B.A., Hibbing, Medicine
- Wilma June Fitsimmons, Spencer, Iowa, Medical Technology*
- Ralph Everett Ford, Navarre, Occupational Therapy
- H. Wilson Godfrey, B.A., St. Paul, Medicine
- Richard David Granquist, B.A., Duluth, Medicine
- Nancy Lou Hagen, Rochester, Physical Therapy
- Kathryn Ruth Hammer, Little Falls, Medical Technology, WITH HIGH DISTINCTION*
- Beverly Jean Hardy, Sioux City, Iowa, Medical Technology, WITH DISTINCTION*
- Virginia Haskell, Longville, Public Health Nursing
- Margaret Ann Hirt, Minneapolis, Medical Technology*
- Jocelynn Hopponen, New York Mills, Occupational Therapy
- MaryAnn Barbara Horak, St. Paul, Medical Technology*
- Carol Hope Hustad, St. Paul, Occupational Therapy, WITH DISTINCTION
- Lucile Marie Johnson, Jackson, Physical Therapy
- Mary Ann Johnson, Albert Lea, Occupational Therapy
- Vera Ann Johnson, St. Paul, Public Health Nursing
- Beverly Ann Juten, Duluth, Occupational Therapy
- Marguerite Adele Karpan, Keewatin, Physical Therapy
- James Roy Kent, B.A., Duluth, Medicine
- Tauno Everett Ketola, B.A. cum laude, Iron, Medicine
- Evelyn Amy Kile, Oakland, Ill., Public Health Nursing
- Celeste Fay Knipmeyer, Higginsville, Mo., Public Health Nursing
- Carol Loraine Knobel, Gaylord, Medical Technology*
- Bessie Kotonias, Hibbing, Physical Therapy
- Greta Gayl Lilleberg, Slayton, Medical Technology, WITH HIGH DISTINCTION*
- Robert Beryl Litin, B.A., Minneapolis, Medicine
- Loren LaVern Longmore, A.A., Bovey, Physical Therapy
- Joan Marilyn Lothberg, Virginia, Physical Therapy, WITH HIGH DISTINCTION
- Joan Dorothy Mattson, Minneapolis, Occupational Therapy
- Daisy Gesela Motriuk, Winnipeg, Manitoba, Canada, Public Health Nursing
- Fred Carl Nachtigal, B.A., St. Paul, Medicine
- Jean Margaret Nelson, Minneapolis, Occupational Therapy, WITH DISTINCTION

* These degrees are conferred subject to satisfactory completion of required practical work prior to December 17, 1953.

† Degree conferred as of March 19, 1953.

- Harriet Elizabeth Newberry, San Diego, Calif., Public Health Nursing, WITH DISTINCTION
- Sarah Stoltze O'Brien, Stillwater, Physical Therapy
- Margaret Esther Ohlen, Minncapolis, Medical Technology*
- Joan Bernice Olson, Minneapolis, Medical Technology*
- JoAnne Beverly Ostlund, Minneapolis, Physical Therapy, WITH DISTINCTION
- Joan Lucille Owen, Minneapolis, Medical Technology*
- Betty LaVern Peterson, North Branch, Medical Technology*
- Rudolph Anthony Ptak, Minneapolis, Physical Therapy
- Ruthe M. Rondeau, Cable, Wis., Physical Therapy
- Carol Jean Sandell, Minneapolis, Medical Technology*
- James L. Schilling, B.A., Minncapolis, Physical Therapy
- Mary Louise Schuldt, St. Paul, Public Health Nursing, WITH DISTINCTION
- Russell Thomas Schultz, Minncapolis, Medicine
- Richard W. Sexe, Fairmont, Physical Therapy
- Bette Janet Spaeth, Aitkin, Physical Therapy
- Norma Jean Steinke, Minneapolis, Occupational Therapy
- Barbara Mae Strom, Mankato, Physical Therapy, WITH HIGH DISTINCTION
- Catherine Leona Sundstrom, Minneapolis, Public Health Nursing
- Leonard Beck Torkelson, B.A., M.B., St. James, Medicine
- Elizabeth Alice Tracy, Belmond, Iowa, Public Health Nursing
- Mary Ann Udovich, Chisholm, Physical Therapy
- Barbara Ann Ure, B.A., Minneapolis, Medicine
- Janet Ruth Vogt, St. Paul, Medical Technology*
- Lois Arlene Wagner, Minneapolis, Medical Technology*
- Alvin Wallace Waters, B.A., Minneapolis, Medicine
- Mary Kathryn Wcimer, St. Paul, Medical Technology*
- Evelyn R. Wilson, R.N., Milwaukee, Wis., Public Health Nursing, WITH DISTINCTION
- Corrine Darlene Wulkan, Minneapolis, Physical Therapy
- Mitsue Yanagita, Minot, N.D., Medical Technology, WITH HIGH DISTINCTION*
- Mary Teske Yocom, Rochester, Medical Technology*

Master of Hospital Administration

- Stanley N. Allen, B.B.A., Mound
- Ivan Devon Anderson, B.S., Lincoln, Kan.
- Marshall Gerhard Ause, B.A., Preston
- Robert Bruce Butters, B.A., Minneapolis
- Walter Van Deventer Coburn, B.S., El Dorado, Kan.
- Donald Maurice Cook, B.A., Duluth
- Clovis Washington Francisoni, M.D., Porto Alegre, Brazil
- Gunnar Diken Frederiksen, B.A., Askov
- Henry G. Hemmerde, C.P.A., Lima, Peru
- Gaston Herd, B.B.A., Manchester, Ky.
- Loren Neil Hesla, B.B.A., Wakonda, S.D.
- Howard Richard Jones, Jr., B.A., Washington, D.C.
- Roger Gilbert Larson, B.A., Braham
- George Booth Little, Jr., B.S., Charlotte, N.C.
- Arthur Eugene Miller, B.S., Boulder, Colo.

* These degrees are conferred subject to satisfactory completion of required practical work prior to December 17, 1953.

Charles A. Okey, B.A., Luverne
 Julio Olavarria, C.P.A., Mexico, D.F.,
 Mexico
 William Willis Peters, B.S., Greens-
 burg, Pa.
 Glenn M. Reno, B.S., Minneapolis
 Tomic Tomassian Romson, B.A.,
 St. Paul
 John Setsma, Jr., B.A., Grand Rapids,
 Mich.
 Sister Ingeborg Emilia Blomberg,
 Albert City, Iowa

Donald Steele Smith II, B.A., Han-
 over, N.H.
 John Farrington Stockwell, B.A.,
 Natick, Mass.
 James Peter Streitz, B.S., Minneapolis
 William Norrby Wallace, B.A.,
 Minneapolis
 John Owen Yale, B.S., Dover, N.J.
 Paul David Youngdahl, B.A., Minne-
 apolis

Master of Public Health

Kalyani Amatyakul, B.D.S., Bangkok,
 Thailand
 Angel Horacio Balcarcel, Guatemala,
 Guatemala
 Horacio Boccoardo, M.D., Santiago,
 Chile
 Geraldine Elizabeth Braucht, B.S.,
 St. Paul
 Antonio Brown, M.D., Tarija, Bolivia
 Viri Chai-aya, M.B., Bangkok, Thai-
 land
 Carlos Enrique Chavez, D.V.M.,
 Lima, Peru
 Sophus R. Christensen, B.A.,
 Des Moines, Iowa
 Norman August Geiger, B.A., Sedalia,
 Mo.
 Robert Charles Hill, B.S., Ashland,
 Wis.
 Leonard William Hole, B.A., B.Com.,
 Victoria, British Columbia, Canada
 Ezra Lloyd Ludwig, D.D.S., Minne-
 apolis
 David Vance McCallister, B.A.,
 Seattle, Wash.
 Robert Sherwood Miller, B.S., Colum-
 bia, Mo.

Edith Fern Myers, B.S., Strasburg,
 Ohio
 Kathleen Abbott Norris, B.S., North
 Tonawanda, N.Y.
 Fumio Ohashi, M.S., Tokyo, Japan
 Aimo Paivio Ojala, M.D., Helsinki,
 Finland
 Ruth Ines Peffley, B.S., Portland, Ore.
 Jose Luis Perez, M.D., Navarrette,
 Mexico
 Joseph Hays Petersen, B.S., Eau
 Claire, Wis.
 Dharani Nath Phukan, M.B., Jorhat,
 India
 Frances Eileen Reardon, B.S.,
 St. Paul
 Hikmat Shahin Salman, B.Ch., Beirut,
 Lebanon
 Gerd Bodo Seidel, Hagen, Germany
 Gregory George Shields, B.S., M.D.,
 Abbotsford, Wis.
 George Matthias Shinnars, B.S., M.D.,
 Green Bay, Wis.
 Alma Georgina Sparrow, B.S., M.S.,
 St. Paul
 Ramona Lucile Todd, B.A., M.S.,
 M.B., M.D., Ph.D., Minneapolis

Doctor of Medicine

Richard Robert Anderson, B.S., M.B.,
 Hibbing
 Richard William Anderson, B.A.,
 B.S., Aurora
 Roger Eugene Anderson, B.A., B.S.,
 M.B., Minneapolis

Genevieve A. Arneson, Minneapolis
 Richard Burton Aronsohn, B.A., B.S.,
 Minneapolis
 Jason Allen Aronson, B.A., B.S.,
 Little Falls

Arnold Clifford Bakke, B.S., Minneapolis
 George Linal Barnard, Jr., B. Met. E., B.S., M.B., Minneapolis
 Richard E. Barnes, B.A., B.S., M.B., Minneapolis
 Harold Preston Basinger, B.S., Windom
 Morton Bearman, B.A., B.S., Minneapolis
 Donald Craig Bell, B.A., Minneapolis
 Herman Duane Bentz, B.A., B.S., M.B., Grand Rapids
 Arnold Martin Berg, B.A., Fertile
 Vera Besser, Minneapolis
 Valija Skaidrite Bilzens, Minneapolis
 John Lawrence Bonner, B.S., M.B., Virginia
 Donald Lester Boucher, B.A., Minneapolis
 John Henry Bouma, B.A., B.S., M.B., Edgerton
 Paul Frederick Bowlin, B.A., B.S., Minneapolis
 Henry Erwin Brandt, B.A., B.S., Wells
 Carl Otto Bretzke, B.A., B.S., M.B., Hutchinson
 Roger Warren Brockway, B.A., B.S., M.B., Wayzata
 Marshall Francis Brown, B.S., M.B., Virginia
 Phyllis White Brown, B.A., Minneapolis
 Louis Arthur Buie, Jr., B.A., M.B., Rochester
 Earl Elarth Cammock, B.A., Minneapolis
 James Lee Canine, B.S., M.B., St. Paul
 Curtis Harvey Carlson, B.A., B.S., Minneapolis
 William Johnson Carr, B.A., B.S., M.B., Minneapolis
 Frank Joe Carthey, B.A., B.S., M.B., Minneapolis
 Sherman Bradford Child, B.A., B.S., M.B., Minneapolis
 Thomas Paul Coleman, B.A., B.S., Stanchfield
 Ethlyn Countryman, B.A., St. Paul
 Paul Vernon Cummiskey, B.S., B.A., M.B., Mankato
 Arthur Emerson Davis, Jr., B.S., M.B., St. Paul
 Jerome Joseph DeCosse, B.S., Bozeman, Mont.
 James Henry DeGeest, B.A., B.S., M.B., Minneapolis
 Luther Lenker Dehnel, B.A., Minneapolis
 Richard Allison DeWall, B.A., B.S., M.B., Morris
 Norman Jack Diamond, B.S., B.A., M.B., Minneapolis
 Robert English Doan, B.A., B.S., M.B., Duluth
 James Hetherington Dokken, B.A., B.S., M.B., Cokato
 Ralph Thomas Duddles, B.A., B.S., Excelsior
 Gary Dudovitz, B.S., M.B., St. Paul
 Robert Clarence Dunn, B.A., Minneapolis
 John Joseph Dwyer, B.S., M.B., Fargo, N.D.
 Robert Valentine Edwards, B.S., M.B., Minneapolis
 Herman Harrison Eelkema, B.S., M.B., Duluth
 Russell Jay Eilers, B.A., B.S., M.B., St. Paul
 Robert Dell Erickson, B.S., M.B., Wykoff
 Vernon Douglas Erickson, B.A., B.S., M.B., Minneapolis
 George Brown Ewens, B.A., B.S., Virginia
 Virgil Thomas Fallon, B.A., B.S., M.B., Darwin
 Albert David Fetzek, B.A., B.S., M.B., Minneapolis
 Orest Nicholas Filipovich, Minneapolis
 Paul Reagan Finley, B.S., M.B., St. Paul
 Robert Francis Fischer, B.A., Hibbing
 Donald Peter Fox, B.A., B.S., M.B., Minneapolis

Ramon Michael Fusaro, B.A., B.S.,
 Minneapolis
 Elbert John Gamble, B.S., M.B.,
 Albert Lea
 Ada Sigrid Gilbertsen, B.S., M.B.,
 Minneapolis
 Victor Adolph Gilbertsen, B.A., B.S.,
 M.B., Minneapolis
 William Robb Glenny, Jr., B.A.,
 B.S., M.B., Minneapolis
 H. Wilson Godfrey, B.A., St. Paul
 Marvin Eleazer Goldberg, B.A.,
magna cum laude, B.S., M.B.,
 Minneapolis
 Roy Herbert Good, B.S., M.B.,
 Minneapolis
 William Russell Goodchild, B.A.,
 B.S., Minneapolis
 Richard David Granquist, B.A.,
 Duluth
 Francis John Grimmell, B.A., B.S.,
 M.B., Minneapolis
 William Hunter Grohs, B.S., M.B.,
 St. Paul
 Paul Oscar Gustafson, B.A., B.S.,
 M.B., Minneapolis
 Jack Frederick Haas, B.A., B.S.,
 M.B., St. Paul
 Lyle Freeman Haberland, B.A.,
 Minneapolis
 William Gearey Halverson, B.S.,
 Revere
 Seymour Handler, B.S., New York,
 N.Y.
 Daniel James Hanson, B.A., B.S.,
 Faribault
 Harold Walden Hanson, B.A., B.S.,
 Little Falls
 Charles Lee Harris, B.A., B.S., M.B.,
 Park River, N.D.
 John Arnold Hartwig, B.A., M.B.,
 Oconomowoc, Wis.
 Norman Rye Haugan, B.A., McIntosh
 Samuel Bernard Haveson, B.A., B.S.,
 M.B., Minneapolis
 Eugene William Haywa, B.A., B.S.,
 Minneapolis
 Paul Henry Hedenstrom, B.S., M.B.,
 Duluth
 Duane Rodney Hedine, B.A., B.S.,
 M.B., Alexandria
 William Goddard Heegaard, B.S.,
 M.B., Minneapolis
 James K. Heid, B.S., Browerville
 Carl Robert Heinzerling, B.A., B.S.,
 Minneapolis
 Dean Jacob Hempel, B.A., B.S., M.B.,
 Minneapolis
 Russell Robert Hendrickson, B.A.,
 B.S., Minneapolis
 Kenneth George Henry, B.A., B.S.,
 M.B., Lewiston
 John Alden Higgins, B.A., B.S., M.B.,
 Rochester
 Jule Jerome Hopperstad, B.S., Minne-
 apolis
 Charles Sherman Hoyt, B.S., Edina
 John Stephen Huff, B.A., B.S.,
 Glencoe
 Edward G. Huppler, B.A., B.S., M.B.,
 Minneapolis
 Maland Carroll Hurr, B.A., B.S.,
 Minneapolis
 Edward Gerald Hustad, B.A., M.B.,
 Starbuck
 Gerald William Ireland, B.A., Min-
 neapolis
 William Charles Jackson, B.S., M.B.,
 St. Paul
 Bruce William Jarvis, B.A., B.S.,
 M.B., St. Paul
 Carolyn Adair Johnson, B.A., B.S.,
 M.B., St. Paul
 David Arthur Johnson, B.S., Minne-
 apolis
 Gordon Erik Johnson, B.S., Minne-
 apolis
 Marvin Waldemar Johnson, B.S.,
 M.B., Stanchfield
 Russell Ardean Johnson, B.A., B.S.,
 Grand Rapids
 Henry Wayne Johnston, B.S., M.B.,
 Duluth
 Donald A. Jones, B.A., B.S., Fort
 Snelling
 James Roderick Jude, B.S., Maple
 Lake
 Harold Baird Kadesky, B.A., B.S.,
 M.B., St. Paul
 Rudolf Werner Kallenbach, M.B.,
 St. Paul

Martin Jack Kaplan, B.A., B.S.,
 St. Paul
 Everett Howard Karon, B.S., St. Paul
 Harold Katkov, B.A., B.S., St. Paul
 James Roy Kent, B.A., Duluth
 Tauno Everett Ketola, B.A. *cum
 laude*, Iron
 Thomas Harry Kirschbaum, B.A.,
 B.S., Minneapolis
 Donald William Klass, B.A. *summa
 cum laude*, B.S., M.B., St. Paul
 Robert Peter Koenig, B.A., M.B.,
 St. Paul
 Richard Conrad Kogl, B.A., B.S.,
 M.B., St. Paul
 Lyle Vernon Kragh, B.S., M.B.,
 Hendricks
 Leonard Otto Langer, Jr., B.A., B.S.,
 Minneapolis
 Earl Russell Larson, B.A., B.S.,
 Minneapolis
 Gordon Eugene Lee, B.S., M.B.,
 Worthington
 Robert Joseph Leiferman, B.A.
magna cum laude, B.S., M.B.,
 Rochester
 Wendla E. Leinonen, B.A., Minne-
 apolis
 Robert Dean Letson, B.A., B.S.,
 M.B., Minneapolis
 Donn Ellis Leuzinger, B.A., B.S.,
 Minneapolis
 Roy Kenton Lilleskov, B.A., B.S.,
 St. Paul
 Dale Regnar Lindall, B.A., B.S.,
 Parkers Prairie
 Arthur Nathaniel Lindberg, B.S.,
 Tucson, Ariz.
 Maurice Luther Lindblom, B.A.
cum laude, B.S., M.B., Minneapolis
 Leonard S. Linnell, B.A., B.S.,
 Minneapolis
 Mark Boyd Listerud, B.A. *magna
 cum laude*, B.S., M.B., Wolf Point,
 Mont.
 Robert Beryl Litin, B.A., Minne-
 apolis
 Arthur Gene Litman, B.A., B.S.,
 M.B., Minneapolis
 Bruce Raymond Little, B.A., B.S.,
 Minneapolis
 Jerome G. Lommel, B.A., B.S., M.B.,
 St. Cloud
 Neil Lester Macheledt, B.A., Hector
 Gerald Eugene Maguire, B.A., B.S.,
 Minneapolis
 James Parker Mahle, B.S., White
 Bear Lake
 J. Anthony Malerich, Jr., B.S., M.B.,
 West St. Paul
 Ralph Henning Mallinger, B.A., B.S.,
 M.B., Oslo
 Aaron Louis Mark, B.A., Duluth
 Kenneth Kenzo Matsumoto, B.E.E.,
 B.S., M.B., Minneapolis
 Philip Walter Maus, B.A., Maynard
 Donald MacMillan Mayberg, B.A.,
 M.B., Minneapolis
 Donald Ray McFarlane, B.S., Bot-
 tineau, N.D.
 Gordon William McGregor, B.A.
cum laude, B.S., M.B., Minneapolis
 Bryson Roy McHardy, B.A., B.S.,
 M.B., Minneapolis
 Robert Oliver McMahan, B.S.,
 Perham
 Thomas Arthur Meagher, B.A., B.S.,
 Park River, N.D.
 James Christian Melby, B.S., Duluth
 John Bernard Miettunen, B.A.,
 Hibbing
 Harold Dawes Miller, B.A., Minne-
 apolis
 Clifford Douglas Molzahn, B.S.,
 M.B., St. Paul
 James Raymond Monnahan, B.S.,
 M.B., St. Paul
 Keith Buell Moulton, B.A.,
 Mankato
 Donald Robert Mueller, B.S., M.B.,
 St. Croix Falls, Wis.
 Thomas Gregory Murn, B.S., Ely
 Roger Cawley Murray, B.A., B.S.,
 M.B., St. Paul
 Marvin Marshall Muske, B.S., M.B.,
 Minneapolis
 Floyd Forrest Myrick, B.S., M.B.,
 D.D.S., Hamilton, Mont.
 Fred C. Nachtigal, B.A., St. Paul
 Raymond Arthur Narverud, B.A.,
 B.S., M.B., Minneapolis

Eldore Bentley Nash, B.A., B.S.,
 Waconia
 Ralph Alfred Nelson, B.A., Minne-
 apolis
 Robert Harry Nelson, B.A., B.S.,
 M.B., Ortonville
 Albert Louis Nisswandt, St. Paul
 Joseph Louis Norquist, B.A., B.S.,
 St. Paul
 Gregory Mathias Olson, B.A., Wanda
 Roger Alan Parsons, B.S., Redwood
 Falls
 Richard Erling Payne, B.A., M.B.,
 Leonard
 Douglass Everal Perkins, B.A., B.S.,
 M.B., Minneapolis
 Frank Stebbins Preston, B.S., Minne-
 apolis
 Isaac Michael Prlina, B.A., B.S.,
 M.B., Hibbing
 Robert Daniel Pugsley, B.A., B.S.,
 Seattle, Wash.
 Anatole Rabceovich, St. Paul
 Ralph Marlyn Ramlow, B.A., B.S.,
 Minneapolis
 David Addison Randall, B.A.,
 Rochester
 Sheldon Cooper Reed, B.A., B.S.,
 M.B., Minneapolis
 Harold Gene Richman, B.A., B.S.,
 St. Louis Park
 Rudolph Jordan Ripple, B.A.,
 St. Paul
 Donald Edson Roach, B.A., B.S.,
 M.B., St. Paul
 Winthrop R. Rockwell, B.A., B.S.,
 Minneapolis
 Robert Julius Rotenberg, B.A., B.S.,
 M.B., Minneapolis
 Paul Chadwick Royce, B.A., B.S.,
 M.B., Brainerd
 William Donald Rudie, B.S., Duluth
 Charles Merle Samet, B.A. *magna*
cum laude, B.S., M.B., Minneapolis
 Raymond Wallace Scallen, B.A.,
 B.S., M.B., Minneapolis
 Joseph Edward Scallon, B.S., M.B.,
 St. Paul
 Thomas Leo Schafer, B.A., B.S.,
 Minneapolis
 Irwin Francis Schaffhausen, B.A.,
 B.S., B.M., St. Paul
 Mildred Jane Schaffhausen, B.S.,
 B.M., St. Paul
 James A. Schneider, B.A., Rochester
 Russell Thomas Schultz, Minneapolis
 Daniel Phillip Schwartz, B.A., M.B.,
 Minneapolis
 Edward L. Segal, B.S., Minneapolis
 Herbert Joseph Setzer, Jr., B.A., B.S.,
 St. Paul
 Robert I. Shragg, B.S., Minneapolis
 Nathan Theodore Sidley, B.A., B.S.,
 St. Paul
 David Allen Sisler, B.S., Grand
 Rapids
 Nadine Genet Smith, B.A., B.S.,
 B.M., Minneapolis
 Vernon Lyle Sommerdorf, B.A.,
 B.S., M.B., St. Paul
 David W. Sontag, B.A., B.S.,
 Lakefield
 Elliott Bernard Springer, B.A. *magna*
cum laude, B.S., B.M., Minneapolis
 Robert Carlyle Stewart, B.S., Minne-
 apolis
 Ruth Dorothy Sundberg, Ph.D.,
 M.A., B.S., Minneapolis
 Carl Johan Swendseen, B.S., B.M.,
 Minneapolis
 Donald Burton Swenson, B.S., B.A.,
 M.B., Waseca
 Robert Owen Taylor, B.A., B.S.,
 Appleton
 James Vincent Testor, M.B., B.S.,
 St. Paul
 Joseph William Teynor, B.S.,
 New Ulm
 Ardell Henry Thompson, B.A.,
 Madison
 Francis Buchanan Tiffany, B.S.,
 St. Paul
 Leonard Beck Torkelson, B.A., M.B.,
 St. James
 Barbara Ann Ure, B.A., Minneapolis
 John Fossen Waldron, B.A., B.S.,
 Minneapolis
 William Edward Walter, B.A., B.S.,
 Pine Island

Alvin Wallace Waters, B.A., Minneapolis
William Richard Watson, B.A., B.S., Bowman, N.D.
Marwood Emery Wegner, B.A., B.S., Minneapolis
James Brandrup Wenzel, B.A., St. Paul
Paul Harry Westphal, B.A., B.S., M.B., Gettysburg, S.D.
Paul A. Williams, B.S., Clinton

Benjamin Wittels, B.A., B.S., M.B., Minneapolis
Melvyn E. Witthaus, B.A., B.S., M.B., St. Paul
John Clarence Wohlrabe, B.A. *magna cum laude*, B.S., M.B., Mankato
William Charles Woyda, B.A., B.S., M.B., Minneapolis
Arthur Jacob Wyatt, Jr., B.A., B.S., M.B., Washington, D.C.
Richard Edward Zellmer, B.A., Minneapolis

GRADUATE SCHOOL

Master of Arts

Armajeane Albers, Long Lake
B.A. '51, Gustavus Adolphus College. Field of Concentration: German.

Benjamin Franklyn Albitz, Jr., Minneapolis
B.A. '51, University of Minnesota. Field of Concentration: History.

Arne Arnesen, Oslo, Norway
Graduate '51, University of Oslo. Field of Concentration: Political Science.

David Byron Arneson, Minneapolis
B.A. '52, University of Minnesota. Field of Concentration: Music.

Wilfred Joseph Berg, Waunakee, Wis.
B.S. '42, Milwaukee State Teachers College; M.Mus. '47, Northwestern University. Major: Music. Minor: Educational Psychology. Thesis: The Augmented Sixth Chord as Used by Beethoven in His Thirty-two Piano Sonatas.

Ruth Elizabeth Bergstrom, Beresford, S.D.
B.A. *cum laude* '31, Yankton College. Field of Concentration: Curriculum and Instruction.

I-Nien Chien, Grosse Ile, Mich.
LL.B. '44, National Southwest Associated University; M.B.A. '47, University of Denver. Field of Concentration: Statistics.

Betty Ann Danielson, Minneapolis
B.A. '43, University of Minnesota. Field of Concentration: Social Work.

William Bates Dempster, Omaha, Neb.
B.A. '48, University of Omaha. Field of Concentration: Speech.

Alice Lucille Donahue, Minneapolis
B.S. '40, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Gordon Melburn Donhowe, Northfield
B.A. '51, St. Olaf College. Field of Concentration: Economics.

Beatrice Stapel Doonan, Minneapolis
B.S. '43, University of Minnesota. Field of Concentration: Educational Psychology.

Norman Clifton Dow, Bakersfield, Calif.
B.A. '47, University of Denver. Field of Concentration: Psychology.

Ruth Elliff, Minneapolis
B.A. '51, University of Minnesota. Field of Concentration: Political Science.

Oscar Vincent Erickson, Duluth
B.S. '43, Duluth State Teachers College. Field of Concentration: Curriculum and Instruction.

Robert Francis Estelle, Stillwater
B.S. with distinction '49, University of Minnesota. Major: Spanish. Minor: English. Thesis: A Study of the Conde Alarcos Ballad and Its Variants.

Donald Charles Ewing, Minneapolis
B.A. *cum laude* '50, College of St. Thomas.
Field of Concentration: History.

Charles Fredrick Faust, Minneapolis
B.A. '51, College of St. Thomas. Field of
Concentration: History.

Roger MacClement Freeman, Batter-
sea, Ontario, Canada
B.A. with honours '51, Queen's University
(Canada). Field of Concentration: Child Wel-
fare.

Isabel Kathryn Fritz, Minneapolis
B.S. '45, Winona State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Robert Eric Frykenberg, St. Paul
B.A. '51, Bethel College. Field of Concen-
tration: Political Science.

John Laurance Gable, St. Paul
B.A. '51, St. John's University. Field of Con-
centration: Statistics.

Thomas Patrick Gleason, St. Paul
B.S. '51, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

David Goldfarb, Brooklyn, N.Y.
B.A. '51, Brooklyn College. Major: History.
Minor: German. Thesis: The Attitude of the
German Industrialists Toward the German
Working Class During the Bismarck Era,
1870-1890.

George Arthur Haakenson,
Minneapolis
B.B.A. '49, B.S. '50, University of Minnesota.
Field of Concentration: Curriculum and In-
struction.

William Arthur Hambley, Jr., Birm-
ingham, Mich.
B.S. '50, University of Wisconsin. Major: Eco-
nomics. Minor: Political Science. Thesis: De-
mand for Labor—An Analytical and Additive
Study of Certain Economic Factors Condi-
tioning Employer Demand for Labor in a
Segment of the Foundry Industry.

Arthur Sidney Hewitt, Minneapolis
B.A. '41, University of Minnesota. Field of
Concentration: Political Science.

Leverett Paddock Hoag, Minneapolis
B.S. '37, Moorhead State Teachers College.
Field of Concentration: Geography.

Emil Joseph Hrenchuk, Winnipeg,
Manitoba, Canada
B.P.H.E. '48, University of Toronto. Field of
Concentration: Physical Education.

Russell Earl Hurst, Lakewood, Ohio
B.A. *magna cum laude* '52, Texas Christian
University. Field of Concentration: Journalism.

Muhammad Husain, Gunabati, East
Pakistan
B.A. '41, University of Calcutta; M.A. '43,
University of Dacca. Field of Concentration:
Journalism.

Gordon Christian Krantz, Minneapolis
B.A. '49, University of Minnesota. Field of
Concentration: Psychology.

Eugene Kermit Lee, Moorhead
B.A. '50, Concordia College. Field of Concen-
tration: Physics.

William Clifford Luehrs, Salem, Ore.
B.S. '42, Oregon State College. Field of Con-
centration: Education.

Theodore Robert Lyon, Anaconda,
Mont.
B.A. with honors '50, Montana State Uni-
versity. Major: Economics. Minor: Statistics.
Thesis: Factors Affecting the Annual Pro-
duction of Copper in Montana from 1910 to
1950.

Martin Luther Mack, St. Paul
B.S. '40, Concordia Teachers College. Field of
Concentration: Education.

Eileen Phyllis Manning, St. Paul
B.A. *magna cum laude* '47, University of
Minnesota. Major: Art. Minor: History. Thesis:
The Architectural Designs of Harvey Ellis.

Richard Jules Margolis, St. Paul
B.A. '51, University of Minnesota. Field of
Concentration: Journalism.

Anne Collins McDermott, St. Paul
B.S. '52, Teachers College of Connecticut.
Field of Concentration: Educational Psychol-
ogy.

Dorothy Mierow, Northfield
B.A. '42, Carleton College; M.S. '44, Univer-
sity of Pittsburgh. Field of Concentration:
Geography.

Rudolph Charles Muska, Minneapolis
B.A. '51, University of Minnesota. Major: Philosophy. Minor: Psychology. Thesis: An Examination of A. E. Taylor's Moral Argument for the Existence of God.

Suanu Finimale Nwika, Ogoni,
Nigeria, West Africa

B.S. '52, Agricultural, Mechanical and Normal College (Arkansas). Field of Concentration: Education.

Theodore Roger Olson, New Ulm

B.Ed. '42, Whitewater State Teachers College. Field of Concentration: Curriculum and Instruction.

James Charles O'Neill, University Heights, Ohio

B.A. '51, University of Minnesota. Field of Concentration: English.

Walter Davis Porter, Rochester

B.A. '47, Iowa State Teachers College. Field of Concentration: History.

Harry Edward Roadman, Pittsburgh, Pa.

B.A. '49, Duquesne University. Field of Concentration: Psychology.

Ronald William Roloff, Collegeville

B.A. *cum laude* '45, St. John's University. Major: Library Science. Minor: Curriculum and Instruction. Thesis: St. John's University Library: An Historical Evaluation.

Reyburn Robert Roulston, Duluth

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

John Emery Rue, Mapleton

B.A. *magna cum laude* '44, University of Minnesota. Field of Concentration: Area Studies: East and South Asia.

Daniel Humphrey Ryan, Minneapolis

B.S.S. '46, St. Mary's College. Field of Concentration: Political Science.

Van Ward Sarff, Edina

B.E. '39, St. Cloud State Teachers College. Field of Concentration: Educational Administration.

Irene Verona Schensted, Ann Arbor, Mich.

B.A. *magna cum laude* '49, Radcliffe College. Field of Concentration: Physics.

Paul Fredrick Schultz, St. Paul

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

James Joseph Shannon, Grand Rapids
B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Kenneth Lewis Shimota, Minneapolis

B.A. '50, University of Minnesota. Major: Sociology. Minor: Social Work. Thesis: A Literal Replication of a Sociometric Study of Informal Social Participation in a Homogeneous Neighborhood.

Carlos Cisternas Silva, Los Andes,
Chile

Graduate '44, Chile Normal Superior School "José A. Núñez." Field of Concentration: Curriculum and Instruction.

Jacob Silver, St. Paul

B.A. *cum laude* '51, University of Minnesota. Major: Geography. Minor: Economics. Thesis: A Geographic Study of the Commercial Concentrations Located in Suburban Minneapolis.

Betty Lou Stahl, Freeport, Ill.

B.A. '41, MacMurray College. Field of Concentration: Curriculum and Instruction.

Ruth Carroll Stanley, St. Paul

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

Clarissa Sunde, Minneapolis

B.E. '32, Winona State Teachers College. Field of Concentration: Curriculum and Instruction.

Christian Nathanael Swenson,
Minneapolis

B.A. '40, Gustavus Adolphus College. Field of Concentration: Mathematics.

Anna Elizabeth Teigland, Minneota

B.S. '47, Duluth State Teachers College. Field of Concentration: Sociology.

Margaret Thomas, Minneapolis

B.A. '51, DePauw University. Field of Concentration: Psychology.

Esther Tzu-Chiu Tsong, Shanghai,
China

B.A. '44, Soochow University (China). Field of Concentration: English.

Makoto Tsumori, Tokyo, Japan

B.A. '48, University of Tokyo. Field of Concentration: Child Welfare.

Dorothea Katherine Van Zinderen,
St. Paul

B.A. '44, College of St. Teresa. Field of Concentration: Curriculum and Instruction.

Dorothy E. Vossen, Watkins
B.S. '42, Marquette University. Field of Concentration: Education.

Leibert Benet Wallerstein, Alexandria, Va.

B.A. '50, University of New Mexico. Field of Concentration: Economics.

Axel Albert Wiljamaa, Minneapolis
B.S. '42, Duluth State Teachers College. Field of Concentration: Educational Psychology.

Dorothea Viletta Williams,
Minneapolis

B.A. '30, Pennsylvania State College; B.A. in L.S. '31, University of Michigan. Field of Concentration: Library Science.

Donald Lloyd Wolfarth, Long Prairie
B.A. cum laude '50, Hamline University. Field of Concentration: Speech.

Haruko Louise Yaguchi, Tokyo, Japan
Graduate '37, Tsuda University. Field of Concentration: Education.

Master of Arts in Public Administration

William Travis Kirk, Laramie, Wyo.
B.S. '30, University of Wyoming. Major: Public Administration. Thesis: Evaluation of County Extension Personnel.

John Edwin Visher, Falls Church, Va.
B.A. '39, Indiana University. Major: Public Administration. Thesis: Description and Tentative Appraisal of Some Aspects of Internship Training Conducted by the Foreign Service Institute in the U.S. Department of State, 1949-1952.

Master of Business Administration

John Ralston Jerrard, St. Paul
B.B.A. '51, University of Minnesota. Field of Concentration: Business Administration.

Mary Elizabeth Tanner, Laurel, Miss.
B.B.A. '43, University of Minnesota. Field of Concentration: Business Administration.

Master of Forestry

Herman Fred Arle, Norwood
B.S. '36, University of Minnesota. Field of Concentration: Forestry.

Earl Stewart Atkins, Chalk River, Ontario, Canada

B.Sc.F. '41, University of New Brunswick. Field of Concentration: Forestry.

Bruce Antone Brown, Adams, Wis.
B.S. with high distinction '52, University of Minnesota. Field of Concentration: Forestry.

Robert Erwin Buckman, St. Paul
B.S. with distinction '50, University of Minnesota. Field of Concentration: Forestry.

John Randolph Davis, Hayward, Wis.
B.S. with distinction '52, University of Minnesota. Field of Concentration: Forestry.

Kenneth Elmer Winsness,
Minneapolis
B.S. with distinction '49, University of Minnesota. Field of Concentration: Forestry.

Master of Science

Clifford Elmer Ahlgren, Brimson
B.S. '48, University of Minnesota. Major: Forestry. Minor: Botany. Thesis: Some Effects of Flooding on Forest Trees in Northern Minnesota.

Aryadasa Amarasinghe, Colombo, Ceylon
Graduate '39, Bengal Veterinary College; M.P.H. '52, University of Minnesota. Field of Concentration: Veterinary Medicine.

Laurel E. Anderson, St. Paul
B.S. with distinction '47, University of Minnesota. Major: Agronomy. Minor: Plant Pathology. Thesis: Location of TCA Residues in the Soil Profile at Various Dates After Application and Following Various Cultural Treatments.

Richard Paul Aulie, South Haven, Mich.
B.S. '48, Wheaton College. Field of Concentration: Zoology.

- Henrik Joakim Aune, Morris
B.S. with distinction '47, University of Minnesota. Field of Concentration: Agricultural Education.
- Helen Marlys Beneke, Laurens, Iowa
B.S. '48, Iowa State College. Field of Concentration: Home Economics.
- Eugene Francis Bossennaier, St. Paul
B.S. with high distinction '49, University of Minnesota. Major: Economic Zoology. Minor: Botany. Thesis: Field-Feeding of Waterfowl in the Whitewater Lake District of Southwestern Manitoba.
- Robert Elroy Bothun, Crosby, N.D.
B.S. '48, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: A Preliminary Study of the Inheritance of the Reaction of Three Flax Crosses to 2,4-Dichlorophenoxyacetic Acid.
- Robert Edwin Brandt, Eveleth
B.A. '51, University of Minnesota. Major: Metallurgy. Minor: Geology. Thesis: The Mechanism of Particle Bonding in Heat Treated Pellets.
- Arthur Kendall Burditt, Jr., St. Paul
B.S. '50, Rutgers University. Major: Entomology. Minor: Botany. Thesis: The Mortality of European Corn Borer Larvae and Mosquito Larvae When Exposed to Selected Parts of Corn Leaves.
- Sylvan Burgstahler, Glencoe
B.S. with high distinction '51, University of Minnesota. Field of Concentration: Mathematics.
- Richard Dexter Burlingame,
Minneapolis
B.S. with distinction '51, University of Minnesota. Major: Metallurgy. Minor: Chemical Engineering. Thesis: Effect of Bonding Agents in Iron Ore Sintering.
- Kent Maurice Chapman, Minneapolis
B.A. *cum laude* '49, University of Minnesota. Major: Biophysics. Thesis: Colliding Impulse Studies of After Potentials in Frog Sciatic Nerve.
- Jessie Howe Christopherson, St. Paul
B.S. '23, University of Minnesota. Field of Concentration: Home Economics Education.
- Marion Kathleen Cooney,
Minneapolis
B.A. '39, College of St. Benedict. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Serologic Studies of Cocksackie Viruses.
- Donald Eugene Englund, Red Wing
B.S. with distinction '51, University of Minnesota. Field of Concentration: Statistics.
- George Edwin Gifford, Minneapolis
B.A. *cum laude* '49, University of Minnesota. Major: Bacteriology. Minor: Physiological Chemistry. Thesis: The Amino Acid Metabolism of Virus Infected Tissue Cells *in vitro*.
- Lauren Benton Granger, Graceton
B.S. '40, University of Minnesota. Field of Concentration: Agricultural Education.
- Richard Evans Grant, St. Paul
B.A. '49, University of Minnesota. Major: Geology. Minor: Zoology. Thesis: Trilobite Distribution, Upper Franconia Formation, Wabasha County, Minnesota.
- Robert Alfred Hanson, Morris
B.S. with high distinction '50, University of Minnesota. Field of Concentration: Agricultural Education.
- Iwao Iwasaki, Tokyo, Japan
B.S. with high distinction '51, University of Minnesota. Major: Metallurgy. Minor: Physical Chemistry. Thesis: Flotation Characteristics of Pyrrhotite.
- Arvid Cornelius Knudtson,
Minneapolis
B.S. with distinction '50, University of Minnesota. Field of Concentration: Agricultural Economics.
- Lester Leroy Larson, Amherst Junction, Wis.
B.S. with high distinction '50, University of Minnesota. Major: Veterinary Medicine. Minor: Zoology. Thesis: Anatomical Studies of the Nerve Supply to the Penis and Its Retractor Muscle in the Bovine: Development of a Clinical Technique for Producing Anesthesia of the Penis and Relaxation of the Retractor Penis Muscle.
- Celdon Ralph Lewis, Springville, Utah
B.S. '50, Brigham Young University. Field of Concentration: Geology.
- Charles Conrad Loan, Ottawa, Ontario, Canada
B.A. '50, McMaster University. Major: Entomology. Minor: Botany. Thesis: The Biology of *Haplothrips niger* (Osborn).
- Ellicott McConnell, North Stonington, Conn.
B.S. '49, University of Connecticut. Major: Entomology. Minor: Bacteriology. Thesis: Certain Aspects of the Relationship Between the European Corn Borer, *Pyrausta nubilalis* Hubner and *Bacillus thuringiensis* Berliner.

Gene Roland Medinnus, Austin
B.A. '51, University of Minnesota. Field of
Concentration: Speech Pathology.

Aly Hamed Mohamed, Alexandria,
Egypt
B.Sc. '46, Farouk I University. Major: Plant
Genetics. Minor: Botany. Thesis: Cytogenetic
Analysis of a Line with Interchanges Involving
Four Pairs of Chromosomes.

George Constantinos Papavizas,
Boston, Mass.
Graduate '47, University of Thessaloniki
(Greece). Major: Plant Pathology. Minor:
Plant Genetics. Thesis: Aggressiveness and
Pathogenicity of Certain Physiologic Races of
Puccinia graminis tritici Erikss. and Henn.

Hobart Frank Peters, Manyberries,
Alberta, Canada
B.S.A. with distinction '45, University of
Saskatchewan. Field of Concentration: Animal
Husbandry.

Arthur G. Plessers, Deloraine, Mani-
toba, Canada
B.Sc. '50, McGill University. Major: Plant
Genetics. Minor: Agricultural Botany. Thesis:
Genetic Studies of Stem Rust Reaction in
Crosses of Lee Wheat with Chinese Mono-
somic Testers.

Charles Albert Rehwaldt, Dodge
Center
B.S. '51, Mankato State Teachers College.
Field of Concentration: Soils.

Julio Sarrazin Rault, Los Andes, Chile
Ing.Agron. '35, University of Chile. Field of
Concentration: Agricultural Education.

Charles Louis Schneider, St. Paul
B.S. '41, University of Minnesota. Major:
Plant Pathology. Minor: Plant Genetics.
Thesis: A Study of Some Factors Affecting
the Development of Root Rot of Barley.

Wesley George Smith, Winnipeg,
Manitoba, Canada
B.S.A. '51, University of Manitoba. Field of
Concentration: Agricultural Economics.

Eugene Francis Snyder, Miami, Fla.
B.A. '51, University of Minnesota. Field of
Concentration: Physics.

Leonard Orlo Sorenson, LeRoy
B.A.B.A. '51, University of Minnesota. Field
of Concentration: Agricultural Economics.

Prasom Sthapitanonda, Bangkok,
Thailand
B.Sc. '47, Chulalongkorn University; M.S. '50,
University of Cincinnati. Field of Concentra-
tion: Physical Chemistry.

Balwant Rai Suri, Agra, India
B.Sc. '43, Punjab University. Field of Concen-
tration: Horticulture.

Richard Bartlett Taylor, Claremont,
Calif.
B.S. with honor '51, California Institute of
Technology. Major: Geology. Minor: Physics.
Thesis: Investigations on the Duluth Gabbro.

Herbert David Thurston, Sioux Falls,
S.D.
B.S. with distinction '50, University of Min-
nesota. Major: Plant Pathology. Minor: Horti-
culture. Thesis: Physiologic Specialization in
Phytophthora infestans (Mont.) de Bary.

Serinius Trodahl, Hetland, Norway
Cand.Agr. '44, Norwegian College of Agricul-
ture. Field of Concentration: Animal Hus-
bandry.

Walter Basil Wallin, Roseau
B.S. '50, University of Minnesota. Major:
Forestry. Minor: Plant Pathology. Thesis:
Wetwood in *Populus balsamifera*.

Geneva Cora Weston, Minneapolis
B.S. '50, Nebraska State Teachers College.
Field of Concentration: Home Economics
Education.

Master of Science in Agricultural Engineering

Jesse Herbert Pomroy, Jr., St. Paul
B.Ag.E. '50, University of Minnesota. Major:
Agricultural Engineering. Minor: Civil Engi-
neering. Thesis: A Method for Introducing a
Soluble Fertilizer into a High Pressure Irriga-
tion Line.

Master of Science in Chemical Engineering

Oleg Bilous, Nice, France
Diploma of Engineer '51, Ecole Polytechnique
(France). Field of Concentration: Chemical
Engineering.

Master of Science in Civil Engineering

Joseph Philip Barnes, Homedale,
Idaho
B.S. '44, United States Military Academy.
Field of Concentration: Civil Engineering.

Philip Thomas Boerger, Milbank,
S.D.
B.S. '47, United States Military Academy.
Field of Concentration: Civil Engineering.

David Drummond Brown, St. Paul
B.S. '46, United States Military Academy.
Field of Concentration: Civil Engineering.

Kermit Orville Lindell, Duluth
B.S. '44, United States Military Academy.
Field of Concentration: Civil Engineering.

Robert Joseph Malley, Nashwauk
B.S. '46, United States Military Academy.
Field of Concentration: Civil Engineering.

Lewis William Rose, West Bend,
Wis.
B.S. '46, United States Military Academy.
Field of Concentration: Civil Engineering.

Paul Henry Ugis, Jr., New York, N.Y.
B.S. '45, United States Military Academy.
Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Carlos Enrique Ganoza, Lima, Peru
B.S. '50, D.D.S. '50, San Marcos University.
Major: Dentistry. Minor: Anatomy. Thesis:
Relations Between Jaw-Opening Muscle Power
and Mandibular Morphology.

Master of Science in Mechanical Engineering

Edward William Rosencrants, South
St. Paul
B.S. with distinction '52, University of Min-
nesota. Field of Concentration: Mechanical
Engineering.

James Richard Rush, Minot, N.D.
B.S. '52, University of Minnesota. Major:
Mechanical Engineering. Minor: Architecture.
Thesis: A Field Analysis of Design Factors in
Floor Panel Systems.

Master of Science in Medicine

Theodore Franklin Hubbard, Omaha,
Neb.
B.A. '43, M.D. '46, University of Nebraska.
Major: Medicine. Minor: Hematology. Thesis:
The Relation of Bone Marrow Plasma Cells
to Serum Globulin in Disseminated Lupus
Erythematosus and Other Diseases.

Richard H. Mann, Millersville, Pa.
B.S. '43, M.D. '46, Yale University. Major:
Medicine. Minor: Pathologic Anatomy. Thesis:
An Electrocardiographic and Clinical Analysis
of Ventricular Premature Contractions in 480
Cases with Pathologic Findings in the 11
Necropsied Cases.

Warren Fred Wilhelm, Kansas City,
Mo.
B.S. '40, Beloit College; M.D. '45, University
of Chicago. Major: Medicine. Minor: Patho-
logic Anatomy. Thesis: Histopathologic Les-
ions of the Liver Resulting from Biliary Tract
Obstruction.

Master of Science in Ophthalmology

Ernest Sterling Palmerton,
Minneapolis

B.A. *magna cum laude* '33, Sioux Falls College; B.S. *summa cum laude* '35, University of South Dakota; M.D. '39, University of Minnesota. Major: Ophthalmology. Minor: Anatomy. Thesis: An Experimental Study of the Effect of Local Cortisone on the Healing of Wounds in the Corneas of Rabbits.

John Wilson Smillie II, Deephaven
B.A. '38, Dartmouth College; M.D. '43, Cornell University. Major: Ophthalmology. Minor: Anatomy. Thesis: The Effect of Streptokinase on Simulated Hyphema with a Study of Its Toxicity on Rabbits' Anterior Chambers.

Master of Science in Pathology

Robert Reiff Williams, Logansport,
Ind.

B.A. '42, Franklin College of Indiana; M.D. '46, University of Louisville. Major: Pathology. Minor: Clinical Pathology. Thesis: Giant Cell Tumor of Bone.

Master of Science in Radiology

Elliott Charles Lasser, Buffalo, N.Y.

B.S. '44, Harvard University; M.D. '46, University of Buffalo. Major: Radiology. Minor: Pathology. Thesis: The Ileocecal Valve.

Master of Science in Surgery

Harold Joseph Browne, Longford,
Ireland

Bch., B.A.O. '46, Dublin University College. Major: Surgery. Minor: Surgical Pathology. Thesis: Squamous Carcinoma of the Extremities.

Robert Weyer Dunlap, Jr., Wash-
ington, Pa.

B.A. '42, College of Wooster; M.D. '45, Western Reserve University. Major: Surgery. Minor: Surgical Pathology. Thesis: Correlation of Liver Biopsy Findings with Surgical Disorders of the Upper Abdomen.

Raymond George Giberson, Bath,
New Brunswick, Canada

M.D., C.M. '47, Dalhousie University (Halifax). Major: Surgery. Minor: Surgical Pathology. Thesis: A Clinical and Pathological Study of Leiomyosarcoma of the Stomach.

Francis D. Kenney, Hammond, Ind.
M.D. '41, Rush Medical School. Major: Surgery. Minor: Surgical Pathology. Thesis: Giant Hypertrophy of Gastric Mucosa—A Clinical and Pathological Study.

Donald A. MacKenzie, London, On-
tario, Canada

M.D. '46, University of Western Ontario. Major: Surgery. Minor: Surgical Pathology. Thesis: Smooth Muscle Tumors of the Colon.

Robert F. Schell, San Rafael, Calif.

B.A. '44, M.D. '47, Stanford University. Major: Surgery. Minor: Surgical Pathology. Thesis: Carcinoma of the Stomach Associated with Pernicious Anemia: A Clinical and Pathologic Study.

Kenneth Andrew Storsteen, Webster,
S.D.

B.A. *magna cum laude* '42, Augustana College; M.D. '45, University of Nebraska. Major: Surgery. Minor: Surgical Pathology. Thesis: The Myenteric Plexus in Chronic Ulcerative Colitis.

Master of Social Work

Robert Grant Bartholow, Wayzata
B.A. '50, University of Minnesota. Field of
Concentration: Social Work.

Gerald William Benson, St. Paul
B.A. '51, University of Minnesota. Field of
Concentration: Social Work.

John VanPelt Davis, St. Paul
B.A. '49, Macalester College. Field of Con-
centration: Social Work.

Phillip Dolinger, Minneapolis
B.A. '49, University of Minnesota. Field of
Concentration: Social Work.

David Fogel, New York, N.Y.
B.A. '49, Brooklyn College. Field of Concen-
tration: Social Work.

Clarence Oscar Hammer, Ishpeming,
Mich.
B.A. '51, Northern Michigan College of Edu-
cation. Field of Concentration: Social Work.

William Hoffman, St. Paul
B.A. '35, University of Minnesota. Field of
Concentration: Social Work.

Johanna Hermans Idenburg, The
Hague, The Netherlands
Graduate '50, School of Social Work at Am-
sterdam. Field of Concentration: Social Work.

Elaine Ruth Jalonen, Ironwood, Mich.
B.A. with honor '51, Michigan State College.
Field of Concentration: Social Work.

Philip Warren Johnson, Jamestown,
N.D.
B.A. '50, Jamestown College. Field of Con-
centration: Social Work.

Harvey Lawrence Kaplan, St. Paul
B.S. with distinction '50, University of Min-
nesota. Field of Concentration: Social Work.

Diana Ming Leong, San Francisco,
Calif.
B.A. '51, University of California. Field of
Concentration: Social Work.

Alfred Martin Loktu, Minneapolis
B.A. '49, Concordia College. Field of Con-
centration: Social Work.

Edward Lawrence MacGaffey, Minne-
apolis
B.S. '36, M.A. '37, University of Wisconsin.
Field of Concentration: Social Work.

James Kendall Merrill, International
Falls
B.A. '51, Gustavus Adolphus College. Field of
Concentration: Social Work.

Bernard Elbert Nash, Minneapolis
B.A. *cum laude* '51, University of Minnesota.
Field of Concentration: Social Work.

Mayo K. Newhouse, Minneapolis
B.A. '48, University of Minnesota. Field of
Concentration: Social Work.

Shirley Wingquist Olseen, St. Paul
B.A. '45, University of Minnesota. Field of
Concentration: Social Work.

Francis John Peirce, Staples
B.A. '51, University of Minnesota. Field of
Concentration: Social Work.

Joanne Lois Peterson, St. Paul
B.A. '51, Hamline University. Field of Con-
centration: Social Work.

Alexandra Pye, Faribault
B.A. '48, Antioch College. Field of Concen-
tration: Social Work.

Ida Geller Rapoport, St. Paul
B.A. *cum laude* '50, University of Minnesota.
Field of Concentration: Social Work.

Robert Ellsworth Tuttle, Waukesha,
Wis.
B.S. '51, Carroll College. Field of Concen-
tration: Social Work.

Esther Howes Van Der Wart, Sche-
nectady, N.Y.
B.A. *cum laude* '50, Syracuse University. Field
of Concentration: Social Work.

Kenneth Roy Young, Minneapolis
B.A. '49, University of Minnesota. Field of
Concentration: Social Work.

Doctor of Philosophy

Donald D. Adee, St. Paul

B.S. '42, Kansas State College of Agriculture and Applied Science; M.Ed. '48, University of Minnesota. Major: Education. Minor: Physiological Hygiene. Thesis: The Effect of Environmental Temperature on Heart Rate, Deep Body Temperature, and Performance in Swimming. Major Adviser: Prof. C. L. Nordly.

John Davies Black, Palo Alto, Calif.

B.S. '41, M.A. '42, Northwestern University. Major: Psychology. Minor: Neuropsychiatry. Thesis: The Interpretation of MMPI Profiles of College Women. Major Adviser: Prof. William Schofield.

Harriet Eleanor Blodgett, Minneapolis

B.S. *magna cum laude* '40, Tufts College; M.A. '43, University of Minnesota. Major: Child Welfare. Minor: Psychology. Thesis: An Experimental Approach to the Measurement of Self-Evaluation Among Adolescent Girls. Major Adviser: Prof. D. B. Harris.

Donald Albert Brobst, Allentown, Pa.

B.A. '47, Muhlenberg College. Major: Geology. Minors: Metallurgy and Petroleum Engineering. Thesis: Geology of the Plumtree Area, Spruce Pine District, North Carolina. Major Adviser: Prof. G. M. Schwartz.

I-Nien Chien, Grosse Ile, Mich.

LL.B. '44, National Southwest Associated University (China); M.B.A. '47, University of Denver. Major: Economics. Minor: Statistics. Thesis: A Study of Tung Oil Price and Its Demand. Major Adviser: Prof. R. S. Vaile.

George Christianson, St. Paul

B.S. '39, South Dakota State College; M.S. '40, University of Tennessee; M.S. '52, University of Minnesota. Major: Agricultural Biochemistry. Minor: Dairy Husbandry. Thesis: Studies of Some Physical and Chemical Changes in Milk in Frozen Storage. Major Advisers: Profs. Robert Jenness and S. T. Coulter.

Rezneat Milton Darnell, Jr.,

Memphis, Tenn.

B.S. with distinction '46, Southwestern at Memphis; M.A. '48, Rice Institute. Major: Zoology. Minor: Botany. Thesis: An Ecological Study of the Rio Sabinas and Related Waters in Southern Tamaulipas, Mexico, with Special Reference to the Fishes. Major Adviser: Prof. Samuel Eddy.

Roger Dan Derby, Minneapolis

B.A. *magna cum laude* '40, University of Minnesota; M.A. '42, Cornell University. Major: History. Minor: Philosophy. Thesis: Some Medieval Religious and Philosophical Survivals in Seventeenth Century France. Major Adviser: Prof. J. B. Wolf.

James Edson DeVay, St. Paul

B.S. with high distinction '49, University of Minnesota. Major: Plant Pathology. Minor: Agricultural Biochemistry. Thesis: Biochemical Studies of Sex and Pathogenicity in *Ustilago zeae* (Beckm.) Ung. Major Adviser: Prof. E. C. Stakman.

Homer David Fausch, Faribault

B.S. with high distinction '47, M.S. '50, University of Minnesota. Major: Animal Husbandry. Minor: Plant Genetics. Thesis: A Study of the Relationship Between Inbreeding and Variability in the Minnesota No. 1 and No. 2 Swine. Major Adviser: Prof. L. M. Winters.

Hazel Arnette Flood, Mankato

B.A. '23, Sioux Falls College; M.A. '43, University of Nebraska. Major: Education. Minor: Educational Psychology. Thesis: Some Factors Involved in Learning Shorthand—Analysis of the Learning Load of Two Systems of Shorthand. Major Adviser: Prof. R. G. Price.

Garabed A. Garabedian, Beirut,

Lebanon

B.A. '46, M.S. '49, American University of Beirut. Major: Bacteriology. Minor: Pathology. Thesis: The Immunological Basis of Recurrent Herpetic Infections. Major Adviser: Dr. J. T. Syverton.

Alvin Charles Gluek, Jr., East Lansing, Mich.

B.A. '44, Dartmouth College; M.A. '48, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Struggle for the British Northwest: A Study in Canadian-American Relations. Major Adviser: Prof. A. L. Burt.

Joan Gordon, Pine Island

B.S. with high distinction '45, M.S. '47, University of Minnesota. Major: Home Economics. Minor: Agricultural Biochemistry. Thesis: Suitability of the 2,4-Dinitrophenylhydrazine Method for Determining the Effect of Cooking on the Ascorbic Acid Content of Cabbage and Asparagus. Major Adviser: Prof. Isabel Noble.

Theda Hagenah, Minneapolis

B.A. '37, George Washington University; M.S. '39, Wellesley College. Major: Educational Psychology. Minor: Education. Thesis: A Normative Study of the Revised Strong Vocational Interest Blank for Men. Major Advisers: Profs. J. G. Darley and Marcia Edwards.

Burrell Fenton Hansen, Idaho Falls, Idaho

B.S. '40, Utah State Agricultural College; M.S. '42, Purdue University. Major: Speech. Minor: Education. Thesis: A Critical Evaluation of a Documentary Series of Radio Programs on Racial and Religious Prejudice. Major Adviser: Prof. Howard Gilkinson.

Godfrey Martin Hochbaum, Washington, D.C.

B.A. '47, The American University; M.A. '49, George Washington University. Major: Psychology. Minor: Sociology. Thesis: Certain Personality Aspects and Pressures to Uniformity in Social Groups: An Investigation of Sources of Resistance to Pressures to Uniformity. Major Adviser: Prof. J. G. Darley.

Sarah Fitch Holbrook, Wauwatosa, Wis.

B.S. '41, University of Wisconsin. Major: Child Welfare. Minor: Psychology. Thesis: A Study of the Development of Motor Abilities Between the Ages of Four and Twelve, Using a Modification of the Oseretsky Scale. Major Adviser: Prof. D. B. Harris.

Tom Hoshiko, Montreal, Quebec, Canada

B.S. *cum laude* '49, Kent State University. Major: Physiology. Minor: Physiological Chemistry. Thesis: A Study of Mesonephric Tubular Transport of Electrolyte. Major Adviser: Dr. M. B. Visscher.

Mahmoud Khairi Issa, Cairo, Egypt

B.Com. (Hons.) '44, Fouad I University; M.A. '49, University of Minnesota. Major: History. Minor: Political Science. Thesis: Trade Between Egypt and the United States. Major Adviser: Prof. Herbert Heaton.

Rue L. Jensen, Fort Collins, Colo.

B.S. '37, M.S. '39, Utah State Agricultural College; D.V.M. '42, Colorado State College of Agriculture and Mechanic Arts. Major: Veterinary Medicine. Minor: Pathology. Thesis: The Pathogenesis of Hepatic Necrobacillosis in Beef Cattle. Major Adviser: Prof. M. H. Roepke.

Herbert Gordon Johnson, Minneapolis

B.S. '39, University of Minnesota. Major: Plant Pathology. Minor: Soils. Thesis: Investigations on the Control of Root Rot of Canning Peas. Major Advisers: Profs. E. C. Stakman and T. H. King.

Sanaa El-Sayed Khalafalla, Helwan, Cairo, Egypt

B.Sc. '44, Fouad I University; M.S. '49, University of Minnesota. Major: Physical Chemistry. Minor: Analytical Chemistry. Thesis: Theory of Polarographic Diffusion—Study of Instantaneous Current-Time Curves at the Dropping Mercury Electrode. Major Adviser: Prof. I. M. Kolthoff.

Jean Harmon Langenheim, Berkeley, Calif.

B.S. '46, University of Tulsa; M.S. '49, University of Minnesota. Major: Botany. Minor: Geology. Thesis: Description of the Plant Communities and Environments of the Crested Butte Area, Gunnison County, Colorado. Major Advisers: Profs. W. S. Cooper and D. B. Lawrence.

James Albert Lyle, Auburn, Ala.

B.S. '40, University of Kentucky; M.S. '44, North Carolina State College. Major: Plant Pathology. Minor: Botany. Thesis: A Study of the Efficacy of Fungicides in Controlling Diseases of Certain Vegetables. Major Adviser: Prof. E. C. Stakman.

William McIntosh, St. Paul

B.A. '42, Rust College; M.A. '48, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Development of Political Democracy in Puerto Rico. Major Advisers: Profs. Werner Levi and L. A. Mills.

Merle E. Michaelson, Hudson, Wis.

B.S. '43, River Falls State Teachers College; M.S. '48, Colorado State College of Agriculture and Mechanic Arts. Major: Plant Pathology. Minor: Botany. Thesis: Factors Affecting Development of Stalk Rot of Corn Caused by *Diplodia zeae* and *Gibberella zeae*. Major Adviser: Prof. J. J. Christensen.

John David Miller, Todd, N.C.

B.S. with high honors '48, M.S. '50, North Carolina State College of Agriculture and Engineering. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Variability and Inheritance of Reaction of Barley to Certain Races of Stem Rust. Major Advisers: Profs. J. W. Lambert and J. J. Christensen.

Lawrence Ingram Miller, Holland, Va.
B.A. '36, Oberlin College; M.S. '38, Virginia Polytechnic Institute. Major: Plant Pathology. Minor: Entomology. Thesis: Studies of the Parasitism of *Cercospora arachidicola* Hori and *Cercospora personata* (B. and C.) Ell. and Ev. Major Adviser: Prof. E. C. Stakman.

Lakshmi Singh Negi, Chini, Simla Hills, India

B.Sc. '36, M.Sc. '38, Punjab University. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Ear Development and Other Characteristics of Selected Strains of Maize as Affected by European Corn Borer. Major Adviser: Prof. E. H. Rinke.

Christer Eric Nordman, Helsinki, Finland

B.S. '49, Helsingfors Institute of Technology. Major: Physical Chemistry. Minor: Physics. Thesis: The Crystal and Molecular Structure of Tetraborane. Major Adviser: Prof. W. N. Lipscomb.

James Marshall Pollock, Helena, Mont.

B.A. '44, Carleton College; M.S. '49, University of Minnesota. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: The Biochemical Functions of Soy Flour in White Bread Production. Major Adviser: Prof. W. F. Geddes.

Paul Henry Ptacek, Minneapolis

B.A. '40, University of Colorado; M.A. '47, University of Denver. Major: Speech Pathology. Minor: Psychology. Thesis: An Investigation of Various Factors Influencing the Selection and Repetition of Words Presented Dichotically at a Supra Threshold Level. Major Adviser: Prof. E. H. Henrikson.

Paul Armand Rebers, Minneapolis

B.Ch.E. with distinction '44, M.S. in Ch.E. '46, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Constitution of Iles Mannan: Part I—The Structure of Iles Mannan; Part II—The Colorimetric Determination of Sugars. Major Adviser: Prof. Fred Smith.

Luis Rivera-Brenes, Santurce, Puerto Rico

B.S. '40, University of Puerto Rico; M.S. '46, University of Minnesota. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: Economic Aspects of Roughage Production and Conservation in Puerto Rico. Major Adviser: Prof. T. W. Gullickson.

Glaydon Donaldson Robbins, Moorhead

B.S. '29, M.A. '37, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: Recommendations Regarding Concept Content and Level of Treatment in Selected Areas of the Undergraduate Professional Education Curriculum for Secondary School Teachers in Minnesota. Major Adviser: Prof. C. W. Boardman.

Maria Ryzen, Minneapolis

B.S. '50, Memphis State College; M.S. '51, University of Tennessee. Major: Anatomy. Minor: Pathology. Thesis: Analysis of the Cerebral Cortex in *Sorex pacificus pacificus*. Major Adviser: Prof. Berry Campbell.

David Wakefield Shepard, St. Paul

B.S. '47, M.A. '49, University of Minnesota. Major: Speech. Minor: English. Thesis: An Experiment in Content Analysis: The Radio Addresses of Henry J. Taylor: 1945-1950. Major Advisers: Profs. D. W. Thompson and W. S. Howell.

Dorothy Frances Snyder, Washington, D.C.

B.A. '44, The American University; M.A. '48, George Washington University. Major: Psychology. Minor: Educational Psychology. Thesis: A Study of Relationships Between Certain Socio-Economic Factors and the Strong Vocational Interest Blank for Women. Major Adviser: Prof. R. F. Berdie.

Vernon Lyle Sorenson, LeRoy

B.S. with distinction '48, M.S. '48, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: A Study of the Nature and Cost of Government Programs Affecting Potatoes and Their Impact on Inter-Market Relationships. Major Adviser: Prof. W. W. Cochran.

Irving Spiegel, Los Angeles, Calif.

B.A. '32, M.A. '33, University of Minnesota. Major: Spanish. Minor: Italian. Thesis: Old Judaeo-Spanish Evidence of Old Spanish Pronunciation. Major Adviser: Prof. R. L. Grismer.

William Charles Stevens, Birmingham, Ala.

B.A. '40, Birmingham-Southern College; M.A. '41, Vanderbilt University. Major: Psychology. Minor: Educational Psychology. Thesis: The Quantification of Personal Data for Use in a Multivariate Statistical Analysis of Differences Between Selected Groups of College Students. Major Advisers: Profs. J. G. Darley and P. O. Johnson.

Donald Martin Stewart, St. Paul

B.S. '31, University of Minnesota. Major: Plant Pathology. Minor: Forestry. Thesis: Factors Affecting Local Control of White Pine Blister Rust. Major Adviser: Prof. E. C. Stakman.

Richard W. Stow, Rochester

B.S. '37, Michigan State College; M.S. '40, Pennsylvania State College. Major: Biophysics. Minors: Physiology and Biochemistry. Thesis: An Infrared Analyzer for Carbon Dioxide and Its Application to Certain Problems in Respiratory Physiology. Major Adviser: Dr. E. J. Baldes.

George Perry Summers, Sr., Lexington, Ky.

B.S. '28, M.S. '32, University of Kentucky. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Study of the Production Control and Price Support Program for Burley Tobacco with Particular Reference to Kentucky. Major Adviser: Prof. O. B. Jesness.

Robert Eugene Swanson, Minneapolis

B.A. *cum laude* '49, University of Minnesota. Major: Physiology. Minor: Physical Chemistry. Thesis: Relative Contribution of the Glomerulus and Renal Tubule to the Urinary Water in the Isolated Doubly-Perfused Bullfrog Kidney. Major Adviser: Dr. M. B. Visscher.

Richard Hanawalt Swigart, Lewis-town, Pa.

B.A. '47, University of North Carolina. Major: Anatomy. Minor: Pathology. Thesis: Normal and Denervated Skeletal Muscle, and Connective Tissue of Mice Studied by Histochemical and Vital Staining Methods. Major Adviser: Prof. W. L. Williams.

Lewis Herbert Thomas, Regina, Saskatchewan, Canada

B.A. with distinction '39, M.A. '41, University of Saskatchewan. Major: History. Minor: Political Science. Thesis: Responsible Government in the Canadian North-West Territories, 1870-1897. Major Adviser: Prof. A. L. Burt.

James LeRoy Threlkeld, St. Paul

B.S. '45, M.S. '47, Iowa State College. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Solar Energy as a Potential Heat Source for the Heat Pump. Major Advisers: Profs. A. B. Algren and R. C. Jordan.

Kenneth Nelson Vines, New Orleans, La.

B.A. *cum laude* '46, Birmingham-Southern College; M.A. '47, University of Kentucky. Major: Political Science. Minor: Sociology. Thesis: The Role of the Federal Council of the Churches of Christ in America in the Formation of American National Policy. Major Adviser: Prof. William Anderson.

Chih-yi Wang, Tientsin, China

B.S. '41, Yenching University; M.A. '48, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: I. Polynomial Approximations to Solutions of Variational Problems in the Complex Domain. II. On the Mean Convergence of the Mapping Functions in Conformal Mapping of Regions Bounded by "Nearly Smooth" Curves. Major Advisers: Profs. P. C. Rosenbloom and S. E. Warschawski.

Malcolm Pickett Weiss, Minneapolis

B.B.A. '47, M.S. '50, University of Minnesota. Major: Geology. Minor: Zoology. Thesis: The Stratigraphy and Stratigraphic Paleontology of the Upper Middle Ordovician Rocks of Fillmore County, Minnesota. Major Adviser: Prof. W. C. Bell.

Quintus Charles Wilson, Salt Lake City, Utah

B.S. '36, M.A. '46, University of Minnesota. Major: History. Minor: Journalism. Thesis: Joseph Albert Wheelock—A Study of His Life and of the Impact of His Editorial Direction in St. Paul, Minnesota and the Northwest. Major Advisers: Profs. T. C. Blegen and R. D. Casey.

Doctor of Philosophy in Cancer Biology

Truman Albert Newberry, St. Paul

B.S. '45, M.D. '48, University of Minnesota. Major: Cancer Biology. Minors: Physiology and Physiological Chemistry. Thesis: The Effects of Graded Caloric Restriction upon Certain Endocrine and Target Organs in Relation to Mouse Mammary Carcinoma. Major Advisers: Drs. M. B. Visscher and J. J. Bittner.

Doctor of Philosophy in Neurology

Ian Alexander Brown, Minneapolis
B.A. '41, Dartmouth College; M.D., C.M. '44,
McGill University. Major: Neurology. Minor:
Pathology. Thesis: Cerebro-Hepatic Relation-
ships. Major Adviser: Dr. A. B. Baker.

Sidney Keith Shapiro, Minneapolis
M.D. '43, University of Western Ontario.
Major: Neurology. Minor: Neuropathology.
Thesis: Parkinsonism. Major Adviser: Dr. A.
B. Baker.

Doctor of Philosophy in Pathology

Maynard Manuel Cohen, Minneapolis
B.A. '41, University of Michigan; M.D. with
distinction '44, Wayne University. Major:
Pathology. Minor: Neurology. Thesis: Phos-
phorous Metabolism of the Brain. Major Ad-
viser: Dr. A. B. Baker.

Doctor of Philosophy in Physiology

Francis John Haddy, Kiester
B.S. '44, M.D. '46, M.S. '49, University of
Minnesota. Major: Physiology. Minor: Medi-
cine. Thesis: Physiological Studies of the
Venous System. Major Adviser: Dr. M. B.
Visscher.

Daniel Harold Simmons, Los Angeles,
Calif.

B.A. with highest honors '41, University of
California at Los Angeles; M.D. '49, Uni-
versity of Southern California. Major: Physi-
ology. Minors: Physical Chemistry and Physiological
Chemistry. Thesis: The Pituitary-Adrenal Fac-
tor in Sodium Homeostasis. Major Adviser:
Dr. M. B. Visscher.

Doctor of Philosophy in Surgery

Thomas Brannon Hubbard, Jr., Mont-
gomery, Ala.
B.A. '38, Princeton University; M.D. '42,
Columbia University. Major: Surgery. Minor:
Pathology. Thesis: Non-Simultaneous Bilateral
Breast Cancer. Major Adviser: Dr. O. H.
Wangensteen.

SUMMARY OF DEGREES CONFERRED BY THE UNIVERSITY DURING THE ACADEMIC YEAR 1952-53

Degrees conferred July, August, and December, 1952; March, 1953	2,176*
Degrees conferred this June commencement, 1953 (subject to completion of requirements)	2,755†
Total degrees conferred during 1952-53	4,931

* Includes 58 conferred at Duluth.

† Includes 165 conferred at Duluth.

CAPS AND GOWNS

AN EXPLANATION

In the medieval city, clothing not unlike that worn by those participating in this commencement was common. The modern academic costume has evolved from the dress of the medieval guilds and their early religious orders.

Today, everyone with a college or university degree may wear the black academic gown. Hoods, which are omitted by seniors who are candidates for degrees, are worn by graduates. At the University of Minnesota, the lining of the hood has a maroon chevron on an old gold ground to represent the University colors. A University faculty member who holds a degree from another college or university wears the colors of his own alma mater.

Distinctions among sleeves indicate the type of degree held by the wearer. A long, pointed sleeve indicates a Bachelor's degree, while a long, closed sleeve with a slit near the upper part of the arm designates a Master's degree. A round, open sleeve marks a Doctor's degree.

The velvet edging on hoods is the color which stands for the field of study of the gown's wearer. It may be white for Arts and Letters, gold-yellow for Science, maize for Agriculture, Forestry, and Home Economics, grey for Veterinary Medicine, or light blue for Education. Orange denotes Technology; dark blue, Philosophy; purple, Law; green, Medicine; and pink, Music. Public Health is shown by salmon pink edging, Dentistry by lilac, Pharmacy by olive, and Commerce and Accounting by drab.

The Doctor's costume also has velvet trimming on the rest of the gown, including crossbars on the sleeves. The trimming may either be black or may match the color of the hood edging.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidate is an honor student.

Caps, or mortarboards, too, have significance. The President of the University is the only one who may wear a velvet cap and a gold tassel.

For the Master's and Doctor's degrees the tassels are always black, but candidates for the Bachelor's degree at this commencement wear tassels which indicate their school or college by color, as follows:

(In the order of march)

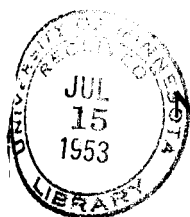
General College.....	crimson and white
College of Science, Literature, and the Arts.....	white
University College.....	old gold and white
Institute of Technology.....	orange
College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture.....	maize
School of Veterinary Medicine of the Institute of Agriculture.....	grey
College of Education.....	light blue
School of Business Administration.....	drab
College of Pharmacy.....	olive
Law School.....	purple
School of Dentistry.....	lilac
College of Medical Sciences.....	green
Graduate School.....	black

THE
UNIVERSITY OF MINNESOTA

Announces Its

July Commencement

1953



ON THE MALL FACING
NORTHROP MEMORIAL AUDITORIUM
THURSDAY EVENING, JULY 16
AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, 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 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 E. E. Novak, New Prague

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 has this year celebrated its one hundred and second 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 doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—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 112,500 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 nearly 19,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, 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, and recreation and health consultants give effective aid and 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 its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, poliomyelitis, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, supersonics and transonics, to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the Minneapolis Symphony, the University Artists Course, radio station KUOM, the University Theatre, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly 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 to be constructed and for the great Mayo Memorial building to be erected over the coming months. Through the American Legion and auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart diseases.

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 University Alumni Association and the Greater University Fund and to return as frequently as possible to visit us here at the University.

Order of Events

INVOCATION: The Reverend Leonard P. Cowley, Member of the Minnesota Council of Religion and Director of the Newman Foundation.

SPEAKING FOR THE UNIVERSITY: Vice President Malcolm M. Willey, Ph.D., Vice President, Academic Administration.

COMMENCEMENT ADDRESS: "The Creative Attitude," Dr. Wilhelmus B. Bryan, L.H.D., Director of the Minneapolis School of Art.

CONFERRING OF COMMISSIONS: Dean Thomas A. H. Teeter, Dean of the Summer Session, will introduce Major Norman L. Widen, USAF, Assistant Professor of Air Science and Tactics, who will present the candidates for commissions in the United States Army and in the United States Air Force. The commissions will be presented by Vice President Willey; the oath of office will be administered by Major Widen.

CONFERRING OF DEGREES: Dean Thomas A. H. Teeter, Summer Session, will introduce the several deans or their representatives, who will present the candidates for degrees in their respective colleges. These, in order of their introduction, are: Professor Cornelia D. Williams, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Associate Dean J. W. Buchta, Ph.D., University College; Professor Henry E. Hartig, Ph.D., Institute of Technology; Assistant Dean Austin A. Dowell, Ph.D., College of Agriculture, Forestry, and Home Economics, Institute of Agriculture; Associate Dean Marcia Edwards, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Acting Assistant Dean William F. Maloney, M.D., College of Medical Sciences; Assistant Dean John G. Darley, Ph.D., Graduate School. All degrees will be conferred by Vice President Willey. Immediately afterwards, certificates and diplomas will be presented by each dean to the graduates of his college.

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: Candidates for this degree will be presented individually by Assistant Dean John G. Darley to Vice President Willey, who will confer the degrees.

"HAIL! MINNESOTA," the University's alma mater song: The audience and Mr. Roy A. 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. Paul O. Manz, organist.

Allegro Vivace - - - - - *Handel*

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 conferred 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, Medical Service Corps

Carl G. Erickson, Lindstrom
Chester F. Karnowski, Carlton

John M. Ness, Minneapolis

DEPARTMENT OF AIR SCIENCE AND TACTICS

Second Lieutenant, USAF Reserve

Robert B. Gile, Jr., Minneapolis
John C. Henry, Hastings

William T. Ryan, Chicago, Ill.

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

Frederich Emil Lange, Jr., Minneapolis
Gerald William Schilling, Minneapolis

Harold Arthur Sheridan, Minneapolis
Robert Eugene Wells, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Mary Ann Corba, Minneapolis
F. Robert DeLange, Minneapolis
Joanne Bjork Klein, St. Paul

Catherine Antoinette Spellacy, Grand Rapids

Bachelor of Arts

- Dwan Peter Basdeka, Minneapolis
Ligita Gina Berzina, Minneapolis
Margaret Alavoisa Blanchard, B.A.,
Minneapolis
Philip Norman Brown, Mandan, N.D.
Charles Edwards Carpenter, Minneapolis
Richard Donald Conner, Lambertton
John Patrick Craven, Williston, N.D.
Francis Richard Dion, St. Paul
Abel Raymond Ellingson, Detroit
Lakes
Ralph Elmer Ermatinger, Valley City,
N.D.
George Bernard Frederickson, Jr.,
Minneapolis, MAGNA CUM LAUDE
John Victor Gronli, Minneapolis
Walter Russell Hall, Laurel, Mont.
Charles Henry Hamp, Jr., Minneapolis
Georgianna Wright Hartzell, Min-
neapolis
John Charles Henry, Hastings
John Henry Hensel, Hopkins
John Edward Hilleren, St. Louis Park
Eivind Omar Hoff, Jr., Brainerd
Joan Mary Jensen, Humboldt, Iowa,
CUM LAUDE
Robert Herman John, St. Paul
Eugene Leroy Knauer, Austin
William Dominic Lanzo, Jr., A.A.,
Minneapolis
- Merle Stanley Mark, Minneapolis
John Walter Mashek, St. Paul
Elaine Mary McNallan, Minneapolis
Joan Irene Merkert, A.A., Minne-
apolis, MAGNA CUM LAUDE
Roger Dell Mielke, Breckenridge
Jerome R. Miller, St. Paul
Joe Walter Murphy, Minneapolis
Muriel Janet Nord, Minneapolis
Kenneth Phillip Noreen, A.L.A.,
Minneapolis
Donald Arthur Opdahl, St. Paul
Warren Oscar Pladsen, St. Paul
Harold O. Reeves, St. Louis Park
John Richard Swann Remsberg, St.
Paul, CUM LAUDE
William George Scordakis, Mankato
Charlotte Severson, A.L.A., Minne-
apolis
Richard Wallace Thoreson, Minne-
apolis
Barbara Jean Vassar, St. Paul
Carol Lynn Vilen, Reserve, Mont.
Marvin Sidney Weiner, Minneapolis
Alfred Everett Wilson, Jr., Minne-
apolis, CUM LAUDE
Margaret Louisa Wright, Excelsior,
MAGNA CUM LAUDE
Patricia Anne Wright, Williston,
N.D.

Bachelor of Science in Library Science

- Barbara Irene Hill, B.A. cum laude,
Minneapolis, MAGNA CUM LAUDE
Clinton Julian Lockert, B.A.,
Hutchinson, CUM LAUDE
Emiko Hirano Nakamae, B.A., Hilo,
Hawaii
- Alice Elizabeth Parker, B.A., M.A.,
Ph.D., Wadena
Shirley A. Simon, B.A., Gleason, Wis.
Florence Marie Strauel, B.S., Min-
neapolis

UNIVERSITY COLLEGE

Bachelor of Arts

- Joan Katherine Flynn, Westbrook
James Anthony Rust, Minneapolis
- Jay Duane Tollefson, A.A., Austin

INSTITUTE OF TECHNOLOGY

Bachelor of Science

George Damstedt, Fairmont

Bachelor of Chemical Engineering

Lyle Anfred Abrahamson, Scandia

Bachelor of Civil Engineering

Rodney Erwin Danielson, Red Wing
Harold Lawerance Reinsma, Slayton

Robert Terrence Tambornino, Mound

Bachelor of Electrical Engineering

Charles William Beebe, Minneapolis
Cyril L. Fernquist, Nevis

Roy Emil Jampsa, Wolf Lake

Bachelor of Industrial Engineering

Robert Beman Gile, Jr., Minneapolis,
WITH DISTINCTION

Roy Thomas Myhr, Hopkins

Bachelor of Mechanical Engineering

George Damstedt, Fairmont

John Andrew Rudberg, St. Paul

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

Bachelor of Science

Janet Meyer Brautigam, Minneapolis,
Home Economics
Geraldine Marion Dion, St. Paul,
Home Economics
Mary Therese Donovan, St. Paul,
Home Economics
Robert Anthony Feilzer, Willmar,
Forestry

Robert Stuart Mann, St. Paul,
Agriculture
Eugene Everett Murphy, A.A.,
Minneapolis, Forestry
William Terrance Ryan, Chicago, Ill.,
Agriculture
William Edward Vogel, St. Paul,
Agriculture

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

Bachelor of Science

Marlys Calhoun Lowe, Minneapolis
Home Economics Education

Betty Jean Teich, Pine City
Home Economics Education

COLLEGE OF EDUCATION

Bachelor of Science

Alice Lukens Bachelder, Hibbing
Helen Elizabeth Bell, Red Wing*
Alyce J. Bjuge, Minneapolis
Donald James Burton, Minneapolis
Elaine Callen, A.A., Twin Falls,

Idaho, WITH DISTINCTION
Clara Sigrid Carter, Hopkins
Russell Robert Christensen, B.A.,
Minneapolis
Helen Ashcroft Dotray, Minneapolis
Alice Merle Evans, Minneapolis
Mabel Gilbertson, Red Wing
Velma Marie Grimes, St. Paul
Joan Margaret Hanifan, Minneapolis
Nellie Violette Johnson, St. Paul*
Peggy Ann Jungberg, Minneapolis
Elizabeth Ann Klinger, Plymouth,
Ind.
Mildred I. Krenke, B.A., St.
Bonifacius

Clara Louise Larson, St. Paul
Olive Lynch, Faribault
Virgie Lenona J. Olson, Harris
Agatha Elizabeth Persoon, Bellflower,
Calif.*

Mayme Meagher Redman, Minne-
apolis
Dominik John Schneider, St. Paul
Violet A. H. Stafford, St. Cloud
Jacqueline Jean Thatcher, Minne-
apolis
Myrtle Celestine Thissen, Blooming
Prairie
Ruby Lucille Thompson, Cyrus
Virginia Ann Westin, St. Paul
Dorothy Marie Williams, Austin*
Mildred McLean Wiste, B.A., Minne-
apolis
Gary Richard Zimmerman, St. Paul

Bachelor of Science in Library Science

Janet Mae Biggs, B.A., Houghton,
Mich.
Minda Nesselth Dockar, B.S.,
Menomonie, Wis.
Estella Hansine Helgeson, B.S.,
Rapid City, S.D.
Myrtle Miller Hoverson, B.S.,
Proctor

Rhoda Naomi Lunder, B.A., Minne-
apolis
Mildred Kavanaugh Lusk, B.A.,
Lubbock, Texas
Alice Helen Serkland, B.S., Rothsay
Margaret Eleanor Doris Toole, B.A.,
Winnipeg, Manitoba, Canada

* Nursing Education Curriculum

Master of Education

Joseph Benjamin Clawson, B.S.,
Windom
Robert Theodore Close, B.S.,
St. Louis Park
Alice Estervog, B.S., Minneapolis
Thomas James Feely, B.S., St. Paul
Thomas Yoshio Honnaka, B.A.,
Honolulu, T.H.

Jean I. Jordan, B.S., Santa Cruz,
Calif.
Jack Clinton King, B.S., Moorhead
Harry Albert Meyer, B.A., Duluth
John Howard Straiton, B.S.,
Minneapolis

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Harlan Hilton Fick, St. Louis Park
James Donald Fisher, Minneapolis
Robert Beman Gile, Jr., Minneapolis
Albert Charles Haik, Minneapolis
Roy Emil Jamps, Wolf Lake
Perry Neil Johnson, Jr., Stillwater
Ronald Charles Kronen, Minneapolis
Donald Wayne Ostlund, Columbia
Heights
Allan Keith Petersen, Rochester

Russell Harold Peterson, Minneapolis
Ronald Lenberg Ress, Minneapolis
Albert Rubin, St. Paul
*Elwyn Harry Sanos, St. Paul, WITH
DISTINCTION*
Richard Henry Shadrack, Jr., Min-
neapolis
Richard Raymond Williams, St. Paul
Jerome Winter, Minneapolis

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Lloyd Benjamin Backus, B.A., Min-
neapolis, Medicine
Bruce Oscar Berg, B.A., St. Paul,
Medicine
Ligita Gina Berzina, Minneapolis,
Medicine
Donald Arthur Bolt, B.A., Monte-
video, Medicine
John Brimhall Brainard, B.C.E., B.A.,
St. Paul, Medicine
Robert A. Callewart, Revere,
Medicine
John Patrick Delaney, St. Paul,
Medicine
Francis Richard Dion, St. Paul,
Medicine
Garth Walfred Englund, B.A., St.
Paul, Medicine

Gerald Howard Fink, B.A., Minne-
apolis, Medicine
George Herbert Fish, B.A., Minne-
apolis, Medicine
Stanley Arnold Fruchtman, B.A.,
Minneapolis, Medicine
Leland James Green, B.A., Minne-
apolis, Medicine
Robert Warner Gustafson, Mound,
Medicine
John Joseph Hall, Minneapolis,
Medicine
Donald Willard Herrick, North St.
Paul, Medicine
William Ralph Hilgedick, B.A., St.
Paul, Medicine
Owen W. Holm, Hibbing, Medicine
Narah Thellis Jackson, Okolona,
Miss., Public Health Nursing

- Ronald Gregory Jaspersen, B.A., Minneapolis, Medicine
- Louis John Karish, Biwabik, Medicine
- Arne Leonard Klepp, B.A., Sola, Norway, Medicine
- Harris Willard Knudson, Minneapolis, Medicine
- Kenneth Roger Knutson, B.A., Minneapolis, Medicine
- Severin Herman Koop, Jr., Richmond, Medicine
- Richard Allen Kunin, Minneapolis, Medicine
- Arnold Shey Leonard, B.A., Minneapolis, Medicine
- Stanley Alan Leonard, B.A., Minneapolis, Medicine
- Gerald Roger Marschke, St. Paul, Medicine
- Donald Campbell Martin, Bovey, Medicine
- Phillip Henry Meyers, B.A., Minneapolis, Medicine
- Robert Jean Murtaugh, Winona, Medicine
- Milton Gardner Mutch, Jr., B.A., Minneapolis, Medicine
- Norbert John O'Keefe, Minneapolis, Medicine
- Kenneth Arvid Osterberg, B.A., Minneapolis, Medicine
- Frank Joseph Owens, Hibbing, Medicine
- Karl Arthur Palmer, B.A., St. Cloud, Medicine
- Raymond Dale August Peterson, B.A., Minneapolis, Medicine
- John Richard Swann Remsberg, St. Paul, Medicine
- Samuel Rotenberg, B.A., Minneapolis, Medicine
- Robert Earl T. Rydell, B.A., Minneapolis, Medicine
- Burton Charles Sandberg, Aurora, Medicine
- Richard Shepard, B.A., Minneapolis, Medicine
- Marshall Hillery Short, B.A., St. Paul, Medicine
- Stephen Edward Silvis, St. Paul, Medicine
- Alan Garrigoes Smith, B.A., Minneapolis, Medicine
- Paul Orlady Sorkness, B.A., Jamestown, N.D., Medicine
- Claire John Albert Strobel, Mankato, Medicine
- Neil Roger Thomford, Minneapolis, Medicine
- Edward Stanley Truppman, B.A., Minneapolis, Medicine
- Thomas Earl Vanderpool, B.A., Minneapolis, Medicine
- Carol Lynn Vilen, Reserve, Mont., Medicine
- James George White, B.S., Minneapolis, Medicine
- Robert LaMotte Witter, B.A., Minneapolis, Medicine
- Bertram Ford Woolfrey, B.A., Crosby, N.D., Medicine
- Alvin Sheldon Zelickson, B.A., Minneapolis, Medicine

GRADUATE SCHOOL

Master of Arts

- Robert William Aamoth, St. Paul
B.A. '48, St. Olaf College. Field of Concentration: Statistics.
- Florence Margaret Aitchison, Pierre, S.D.
B.A. '41, Dakota Wesleyan University. Field of Concentration: Social Work.
- Yasien Abdul Kareem AlAbbas, Tela-far, Iraq
Graduate '41, Baghdad Higher Teachers Training College. Field of Concentration: History.
- Ruth Altmann, Minneapolis
B.A. *summa cum laude* '50, University of Minnesota. Major: English. Minor: Philosophy. Thesis: Idea as Form in the Novels of Virginia Woolf.

Roland Behrendt, Collegetown

Graduate *cum laude* '30, University of Leipzig. Major: German. Minor: French. Thesis: Joseph von Eichendorff's Romantic Concept of History and the Restoration of Marienburg Castle.

Lawrence Ivan Berkove, Chicago, Ill.

B.A. '51, University of Illinois. Field of Concentration: English.

Mary Ann Chase, Chillicothe, Mo.

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

Raymond Donald Chisholm, Minneapolis

B.S. '42, University of Minnesota. Field of Concentration: Physical Education.

Robert Jay Dasset, Jr., Minneapolis

B.A. '39, B.S. '42, University of Minnesota. Field of Concentration: Spanish.

Harland Millard DeBoer, St. Paul

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

Vallabha Dhebpunya, Bangkok, Thailand

B.Com. '46, Chulalongkorn University. Field of Concentration: Economics.

Owen Warner Dukelow, Minneapolis

B.A. '47, University of Minnesota. Field of Concentration: History.

Frances J. Eischens, New Prague

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

Rachel Katherine Ellis, Fairfield, Me.

B.A. '47, Boston University. Field of Concentration: Psychology.

Enid Robinson Erickson, Madison, Wis.

B.S. '47, University of Wisconsin. Field of Concentration: Educational Psychology.

Corinne Ernestine Forster, Ashland, Wis.

B.S. '42, University of Wisconsin. Field of Concentration: Education.

Calvin William Gage, Minneapolis

B.A. '51, Cornell University. Field of Concentration: American Studies.

John Williams Geist, Menomonie, Wis.

B.S. '48, University of Minnesota. Field of Concentration: Educational Psychology.

Douglas Roland George, St. Paul

B.A. '50, University of Minnesota. Field of Concentration: American Studies.

Russell Arthur Gilhoi, Stewart

B.A. '51, St. Olaf College. Field of Concentration: Economics.

Glen Lester Gilpin, Newton, Iowa

B.S. '48, St. Cloud State Teachers College. Field of Concentration: Industrial Education.

Richard Stearns Hatch, St. Paul

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

Shirley LeRoy Held, Grove City

B.A. '40, Macalester College. Field of Concentration: Educational Administration.

Richard Curtis Johnson, Bismarck, N.D.

B.A. '51, University of Minnesota. Field of Concentration: Speech.

Verna Mae Johnson, Mellen, Wis.

B.E. '40, Whitewater State Teachers College. Field of Concentration: Education.

Brother Lewis Vincent Joseph, Minneapolis

B.S. '44, St. Mary's College. Field of Concentration: Educational Psychology.

John Hofstad Kelson, Minneapolis

B.A. '49, Cornell College. Major: English. Minor: Philosophy. Thesis: Disputatious Birds in Early English Débat.

Paul Douglas Kinney, Osakis

B.A. *summa cum laude* '49, Gustavus Adolphus College. Field of Concentration: Educational Administration.

Radovan Korach, Minneapolis

Graduate '49, University of Innsbruck. Major: Political Science. Minor: Economics. Thesis: Yugoslavia and Political Questions Before the United Nations.

Donald William Lavine, Pueblo, Colo.

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

Alice Dorothy Lockwood, Cranford,
N.J.

B.A. '44, Wheaton College. Major: Anthropology. Minor: Child Welfare. Thesis: Surgery in the Primitive World: An Analysis of Trephination.

Arthur Clinton MacKinney, Jr., Lexington, Mo.

B.A. '51, William Jewell College. Field of Concentration: Psychology.

Kaye Kazuyuki Matsumoto, Sacramento, Calif.

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

Margaret Irene McConachie, Sparta, Ill.

B.S. '44, Southern Illinois University. Field of Concentration: Curriculum and Instruction.

Reece Jerome McGee, St. Paul

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

Eugene Clyde Miller, Pepin, Wis.

B.S. '47, Stout Institute. Field of Concentration: Industrial Education.

Dorothy M. Nakashima, Honolulu, T.H.

B.S. '50, University of Wisconsin. Field of Concentration: Area Studies: East and South Asia.

Laura Angeline Neff, Minneapolis

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

Clarence Emil Olander, St. Louis Park

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

Lee Howard Pennington, Tallahassee, Fla.

B.A. '47, Fisk University. Field of Concentration: Statistics.

Erwin Byron Peterson, Madison, Wis.

B.A. *magna cum laude* '48, University of Minnesota. Field of Concentration: French.

Oscar Laurits Peterson, Stanton, N.D.

B.S. with special honors '49, Dickinson State Teachers College. Field of Concentration: Educational Administration.

Wayne Turner Peterson, Albert Lea

B.A. *cum laude* '51, University of Minnesota. Major: Music. Minor: Philosophy. Thesis: String Quartet No. 2.

Selma W. Petrich, Duluth

B.S. with distinction '34, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Margaret Ruth Pitts, Des Moines, Iowa

B.A. with high distinction '51, State University of Iowa. Field of Concentration: Psychology.

Valentine Jerome Poska, Minneapolis

B.A. '40, St. Mary's College. Field of Concentration: Speech.

Sarah Palmer Rowe, Minneapolis

B.A. *cum laude* '36, Coe College. Field of Concentration: Social Work.

Dean Arthur Schmidt, St. Paul

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

Donald Herbert Schuster, Bellevue, Ohio

B.S. with high honor '49, Ohio University. Field of Concentration: Psychology.

Lois Cornell Selberg, Moorhead

B.S. '47, Moorhead State Teachers College. Field of Concentration: Educational Psychology.

Sister Mary Joyce Rowland, Rochester

B.A. '49, College of St. Teresa. Field of Concentration: Curriculum and Instruction.

Arthur Gerald Spiro, Minneapolis

B.A. '51, University of Minnesota. Major: Music. Minor: English. Thesis: The Role of the Timpani in Modern Orchestral Literature.

Martha Alona Steele, Houston

B.S. '43, Winona State Teachers College. Field of Concentration: Curriculum and Instruction.

Amy Emiko Takase, Tokyo, Japan

Graduate '48, Tsuda College. Field of Concentration: Curriculum and Instruction.

James Marsh Thomson, Jr., Minneapolis

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

Lawrence William Werner, Delavan

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

Clifford Peter Wolfsehr, Portland,
Ore.

B.A. '43, Linfield College; M.A. '47, State College of Washington. Field of Concentration: Library Science.

Delford Benjamin Zachor, LeCenter
B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Master of Arts in Public Administration

Dean Eugene Clabaugh, Charlotte,
N.C.

B.A. with high honors '52, University of Illinois. Field of Concentration: Public Administration.

Judith Marie Edes, Hopkins

B.A. *cum laude* '50, University of Minnesota. Field of Concentration: Public Administration.

Master of Business Administration

Bruce Benjamin Burnes, Minneapolis

B.B.A. with distinction '50, University of Minnesota. Field of Concentration: Business Administration.

Master of Forestry

Charles Elmer Olson, Jr., Minneapolis

B.S.F. '52, University of Michigan. Field of Concentration: Forestry.

Master of Science

Emmett Norlin Bergman, Fulda

B.S. with high distinction '50, University of Minnesota. Major: Veterinary Medicine. Minor: Pharmacology. Thesis: Studies on Some Biochemical, Regulatory and Toxic Effects of Calcium, Potassium, and Magnesium in Dairy Calves.

Winfield Jack Carr, St. Paul

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

Truman Benton Clark, Jr., St. Paul

B.A. '51, University of Minnesota. Major: Zoology. Minor: Entomology. Thesis: Studies on the Life Cycle of *Trypanosoma iowensis*.

Anthony Demetriades, Athens,
Greece

B.A. with high honors '51, Colgate University. Major: Physics. Minor: Aeronautical Engineering. Thesis: A Radio-frequency Positive Ion Source.

Clarence Woodrow Dowling, St. Peter
B.S. '43, University of Minnesota. Field of Concentration: Agricultural Education.

Walter Gordon Enstrom, Chicago, Ill.
B.S. '52, University of Illinois. Field of Concentration: Agronomy.

Keith Douglas Graham, Canistota,
S.D.

B.S. '51, South Dakota School of Mines and Technology. Field of Concentration: Mathematics.

Francis Graves, Foxwarren, Manitoba,
Canada

B.Sc. '49, University of Manitoba. Field of Concentration: Animal Husbandry.

William Ashton Harris, Jr., Talladega,
Ala.

B.A. '51, Talladega College. Field of Concentration: Mathematics and Mechanics.

Elwood Louis Horstman, Manitowoc,
Wis.

B.S. *cum laude* '51, Lawrence College. Major: Geology. Minor: Analytical Chemistry. Thesis: Distribution of Lithium in Volcanic Rocks of West Texas.

Arlene Mae Johnson, St. Paul
B.F.A. '51, The Art Institute of Chicago. Field
of Concentration: Speech Pathology.

Joseph Andrew Keplinger, Jr.,
Monkton, Md.
B.S. '49, University of Maryland. Field of Con-
centration: Plant Pathology.

Lies Nijssen, Amsterdam, The
Netherlands
B.Chem. with distinction '52, University of
Minnesota. Major: Physical Chemistry. Minor:
Inorganic Chemistry. Thesis: X-Ray Studies on
Ammonium Mercury Compounds—The Struc-
tures of $HgNH_2Br$ and Hg_2NBr .

Stanley David Sahlstrom, Onamia
B.S. with distinction '42, University of Minne-
sota. Field of Concentration: Agricultural Edu-
cation.

Helen Hatsuko Sakanashi, Honolulu,
T.H.
B.S. '50, University of Hawaii. Major: Agricul-
tural Biochemistry. Minor: Organic Chemistry.
Thesis: Studies on the Proteolytic Degradation
of Aldolase.

William Albert Schneider, Jr.,
Kankakee, Ill.
B.A. '39, Carleton College; M.A. '43, Harvard
University. Major: Analytical Chemistry.
Minor: Physical Chemistry. Thesis: Determina-
tion of Germanium with Phenylfluorone Fol-
lowing Carbon Tetrachloride Extraction of
Germanium Tetrachloride.

Roland Ernst Schoenike, Winona
B.S. with high distinction '51, University of
Minnesota. Major: Forestry. Minor: Botany.
Thesis: Some Aspects of Reproduction in Cer-
tain Uncut Black Spruce Swamp Stands of
Northern Minnesota.

Josephine Daubney Smith, St. Paul
B.Ch.E. '48, B.B.A. '48, University of Minne-
sota. Major: Bacteriology. Minor: Agricultural
Biochemistry. Thesis: The Effect of Various
Factors on the Aspartic Acid Deaminase Act-
ivity of Bacteria.

Herman Hal Stein, Chicago, Ill.
B.S. with highest honors '51, University of
Illinois. Major: Analytical Chemistry. Minor:
Physical Chemistry. Thesis: The Spectropho-
tometric Determination of Rhodium.

Horatio Serafino Stillo, Chicago, Ill.
B.S. '50, University of Illinois. Major: Physical
Chemistry. Minor: Analytical Chemistry.
Thesis: A Study of an Exchange Reaction
Between Free Carbonate and Carbonatobis
(Ethylenediamine) Cobaltic Ion with C^{14}
as the Tracer Element.

Ruth Nomura Tanbara, St. Paul
B.S. '30, Oregon State College. Major: Home
Economics Education. Minor: Social Work.
Thesis: The Development of a Plan for Instruc-
tion in Foods and Nutrition Appropriate for
Adult Groups and College Students Interested
in Personal and Family Living.

Master of Science in Aeronautical Engineering

Paul Ludwig André, Miami, Fla.
B.S. in Aero.E. '52, U.S. Naval Postgraduate
School. Major: Aeronautical Engineering (Pro-
pulsion Aerodynamics). Minor: Aeronautical
Engineering (Structures Aerodynamics). The-
sis: A Study of the Effect of Air Distribution
on the Combustion Process in a Simulated
Turbo-Jet Combustion Chamber.

Master of Science in Chemical Engineering

Antonio Jose Roxane Cruz, Coimbra,
Portugal
B.S. cum laude '50, Dana College. Major:
Chemical Engineering. Minor: Public Health.
Thesis: Critical Discharges of Steam-water
Mixtures.

Master of Science in Civil Engineering

Carlos Borge, San Jose, Costa Rica
C.E. '47, University of Costa Rica. Field of
Concentration: Civil Engineering.

Morris Waldt Self, White Bear Lake
B.C.E. with distinction '50, University of Min-
nesota. Major: Civil Engineering (Structures).
Minor: Civil Engineering (Hydraulics). Thesis:
Nomographic Charts for Continuous Frame
Analysis.

Master of Science in Dermatology and Syphilology

Joseph George Brennan, Rochester
M.D. '47, University of Bologna. Major: Der-
matology and Syphilology. Minor: Histopathol-
ogy. Thesis: Contribution to the Study of
Pemphigus: Cytology of the Spontaneous Bulla
—Special Emphasis on Pemphigus Vulgaris.

Master of Science in Mechanical Engineering

Joseph Leroy McGillicuddy, Owa-
tonna
B.Mech.E. with distinction '49, University of
Minnesota. Major: Mechanical Engineering.
Minor: Mathematics. Thesis: Design and Test
of a Flight Recording Instrument.

Master of Science in Medicine

Richard W. P. Achor, Portland, Ore.
B.A. '42, Willamette College; M.D. '45, Uni-
versity of Oregon. Major: Medicine. Minor:
Pathologic Anatomy. Thesis: The Fate of Pa-
tients Who Have Survived Acute Myocardial
Infarction.

James Curtis Broadbent, Rochester
B.A. '44, M.D. '46, Stanford University. Major:
Medicine. Minor: Physiology. Thesis: A Study
of Acyanotic Congenital Heart Disease Using
Dye Injection and Cardiac Catheterization
Technics.

Benjamin Harrison Saunders, Jr.,
Findlay, Ohio

B.S. '43, M.D. '46, Harvard College. Major:
Medicine. Minor: Experimental Medicine.
Thesis: Streptomycin and Old Tuberculin in
the Treatment of Experimental Tuberculosis
in Guinea Pigs: A Histopathological Study.

Mary Elizabeth Van Vleet, Milwau-
kee, Wis.

B.A. '40, Milwaukee-Downer College; M.D.
'50, Northwestern University. Major: Medicine.
Minor: Pathologic Anatomy. Thesis: Histology
of Intrapulmonary Vessels Involved and Un-
involved Lung in Pulmonary Tuberculosis.

Master of Science in Neurosurgery

Jack William Barrett, Miami, Fla.
B.A. '43, University of Miami; M.D. '46, St.
Louis University. Major: Neurosurgery. Minor:
Neuropathology. Thesis: "Malignant" Pituitary
Adenomas.

Master of Science in Obstetrics and Gynecology

Richard E. Symmonds, Memphis, Mo.
B.A. '43, Central College; M.D. '46, Duke University. Major: Obstetrics and Gynecology. Minor: Surgical Pathology. Thesis: Mesodermal Mixed Tumors and Allied Sarcomas of the Endometrium (Fibromyxosarcoma, Carcinosarcoma): A Clinical and Pathologic Study.

Master of Science in Orthopedic Surgery

Perren Laurence Baker, Edmonton,
Alberta, Canada

B.Sc. '43, M.D. '48, University of Alberta. Major: Orthopedic Surgery. Minor: Surgical Pathology. Thesis: Epithelioma (Adamantinoma Type) Affecting Long Bones.

Master of Science in Pediatrics

John Thomas Olive, Jr., Leavenworth,
Kan.

B.S. '46, University of Notre Dame; M.D. '48, St. Louis University. Major: Pediatrics. Minor: Physiology. Thesis: The Excretion of Dextran, and the Dilution of Plasma by Dextran.

Master of Science in Proctology

William John Hawkins, Altadena,
Calif.

B.S. '37, Creighton University; M.D. '39, Rush Medical College. Major: Proctology. Minor: Surgical Pathology. Thesis: Developmental Cysts as a Source of Perianal Abscesses, Sinuses and Fistulae.

Master of Science in Radiology

Andre Johannes Bruwer, Rochester
M.B.,Ch.B. '42, University of Capetown. Major: Radiology. Minor: Pathology. Thesis: Anomalous Arteries to the Lung Associated with a Congenital Pulmonary Abnormality.

Colin B. Holman, Rochester
B.A. '39, Dartmouth College; M.D. '43, University of Pennsylvania. Major: Radiology. Minor: Surgical Pathology. Thesis: Roentgenological Manifestations of Vitamin D Intoxication.

Master of Science in Surgery

William Minster Kunkel, Jr., Harris-
burg, Pa.
B.S. '43, Franklin and Marshall College; M.D. '46, Johns Hopkins University. Major: Surgery. Minor: Surgical Pathology. Thesis: North American Blastomycosis or Gilchrist's Disease: A Clinicopathologic Study of 103 Cases.

Howard Wayne Owen, Rochester
M.D. '46, University of Chicago. Major: Surgery. Minor: Surgical Pathology. Thesis: Occult Carcinoma of the Breast.

Erich Alfred Quer, Mineola, N.Y.
B.S. *cum laude* '43, Roanoke College; M.D. '46, Albany Medical College. Major: Surgery. Minor: Surgical Pathology. Thesis: Retrograde Intramural Spread of Carcinoma of the Rectum and Rectosigmoid.

Antony Ralling, Montreal, Quebec, Canada

B.A. '44, Stanford University; M.D.C.M. '48, McGill University. Major: Surgery. Minor: Surgical Pathology. Thesis: A Pathological Study of Carcinoma of the Stomach in the Presence of Normal or Increased Acidity and in Achlorhydria.

Master of Science in Urology

Wilbur A. Armstrong, Billings, Mont.
B.S. '38, M.D. '42, State University of Iowa. Major: Urology. Minor: Surgical Pathology. Thesis: Glandular Metaplasia of the Renal Pelvis. A Study of Pyelitis Glandularis, Pyelitis Cystica and Mucus-producing Adenocarcinoma of the Renal Pelvis.

Master of Social Work

Marilyn Elizabeth Frykdahl, Duluth
B.A. *magna cum laude* '51, University of Minnesota. Field of Concentration: Social Work.

William F. Griffin, Decatur, Ill.
B.S. '51, George Williams College. Field of Concentration: Social Work.

Margaret Elaine Simmons, Fargo, N.D.

B.A. '44, Concordia College. Field of Concentration: Social Work.

Glen Robbins Thompson, Stanton
B.A. '51, Carleton College. Field of Concentration: Social Work.

Augusta Louise Francesca Van Wassenauer, Wassenaar, The Netherlands
Graduate '48, School of Social Work at Amsterdam. Field of Concentration: Social Work.

Doctor of Philosophy

George Watkins Anderson, Jr., Minneapolis

B.A. *magna cum laude* '48, M.S. '50, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Time and Directional Dependence of the Flux of Primary Heavy Nuclei. Major Adviser: Prof. C. L. Critchfield.

Edward Arnold Andrews, Lansing, Mich.

B.A. '32, University of Wisconsin; M.S. '43, University of Minnesota. Major: Plant Pathology. Minor: Forestry. Thesis: Root Rots and Seedling Blight of Forage Grasses in Minnesota. Major Adviser: Prof. J. J. Christensen.

Ernest Allen Baillif, St. Paul

B.Mech.E. with distinction '48, B.Aero.E. with distinction '48, M.S. in M.E. '50, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics and Mechanics. Thesis: An Investigation of Methods of Predicting the Performance of Automatic Controls. Major Advisers: Profs. E. N. Kemler and M. H. LaJoy.

Leslie Allen Beldo, Sebeka

B.B.A. with distinction '48, M.A. '50, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: A Multiple Classification Study of Phrasing Attitude Statements. Major Advisers: Profs. H. P. Longstaff and R. L. Jones.

Richard Charles Bowers, Bellevue,
Mich.

B.S. '48, University of Michigan. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Aging of Colloidal and Flocculated Silver Bromide. Major Adviser: Prof. I. M. Kolthoff.

Robert James Sidford Brown, Lawn-
dale, Calif.

B.S. '48, California Institute of Technology; M.S. '51, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Experimental Determination of Differential Cross Section for the Elastic Scattering of Deuterons by Helium-Three as a Function of Scattering Angle and Incident Deuteron Energy. Major Advisers: Profs. J. H. Williams and G. D. Freier.

Harry Delavan Crawford, Minneapolis
B.Phys. '44, M.A. '47, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Microwave Spectroscopy in the X band Region (The X band Microwave Spectrum of Heavy Water). Major Adviser: Prof. A. Van der Ziel.

Lee Monroe Day, Madison, Wis.

B.S. '47, M.S. '48, Iowa State College. Major: Agricultural Economics. Minor: Economics. Thesis: Comparative Efficiency of Farm Operations Under Alternative Leasing Systems. Major Adviser: Prof. G. A. Pond.

Howard Lyman Ellinwood, Davenport,
Iowa

B.A. *magna cum laude* '49, University of Minnesota. Major: Geology. Minors: Petroleum Engineering and Geology. Thesis: Late Upper Cambrian and Lower Ordovician Faunas of the Wilberns Formation in Central Texas. Major Adviser: Prof. W. C. Bell.

Paul Julian Germann, St. Paul

B.S. '37, St. Mary's College; M.S. '42, De Paul University. Major: Botany. Minor: Zoology. Thesis: Circuit and Longitudinal Uniformity of Growth Layers in a Ponderosa Pine. Major Advisers: Profs. D. B. Lawrence and W. S. Glock.

Shosuke Goto, Tooele, Utah

B.Sc. '41, M.Sc. '43, University of Alberta. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Leaf Diseases of Oats. Major Adviser: Prof. E. C. Stakman.

Robert Latane Hall, Pleasant Valley,
Conn.

B.A. '47, Yale University; M.A. '50, University of Minnesota. Major: Sociology. Minor: Area Studies: Scandinavia. Thesis: Social Influence on the Role Behavior of a Designated Leader: A Study of Aircraft Commanders and Bomber Crews. Major Adviser: Prof. A. M. Rose.

Richard James Howe, Minneapolis

B.S. with distinction '50, M.S. in Mech.E. '51, University of Minnesota. Major: Mechanical Engineering. Minor: Petroleum Engineering. Thesis: An Investigation of Methods for Determining the Behavior of Sucker Rod Oil Well Pumping Systems. Major Adviser: Prof. E. N. Kemler.

Peter Alexander Kondra, Winnipeg,
Manitoba, Canada

B.S.A. '34, M.Sc. '43, University of Manitoba. Major: Poultry Husbandry. Minor: Animal Husbandry. Thesis: Inheritance Studies in Turkeys. Major Adviser: Prof. R. N. Shoffner.

David Laurence Levine, Minneapolis

B.S. with honors '41, College of the City of New York; M.S.W. '43, University of Pennsylvania. Major: Social Work. Minor: Sociology. Thesis: Prediction of the Adjustment of Children in Guardianship Care: An Application of Statistical Methodology to Social Work Data. Major Adviser: Prof. J. C. Kidneigh.

Ellis Noel Livingston, Duluth

B.A. *magna cum laude* '42, Knox College. Major: History. Minor: Political Science. Thesis: Senate Investigating Committees, 1900-1938. Major Adviser: Prof. W. D. Beatty.

Floyd M. Martinson, St. Peter

B.A. '42, Concordia College; M.A. '47, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: Some Personality Adjustment Differences of Rural Nonmigrants and Migrants. Major Adviser: Prof. Lowry Nelson.

Francis Harrison McNeal, Bozeman,
Mont.

B.S. '43, M.S. '48, Oregon State College. Major: Plant Genetics. Minors: Botany and Agronomy. Thesis: Inheritance of Stem Solidness in a Thatcher by Rescue Wheat Cross. Major Adviser: Prof. E. R. Ausemus.

Jack Edward Moulton, Davis, Calif.

B.S. '47, D.V.M. '49, The State College of Washington. Major: Pathology. Minor: Veterinary Medicine. Thesis: The Negri Bodies of Rabies: Histochemical and Isolation Studies. Major Adviser: Dr. J. R. Dawson, Jr.

Ryoji Namba, Honolulu, T.H.

B.S. '48, M.S. '50, Michigan State College. Major: Entomology. Minor: Plant Pathology. Thesis: A Revision of the Genus *Rivellia* (Otitidae, Diptera) of North America North of Mexico and the External Anatomy of *Rivellia winifredae* Namba. Major Adviser: Prof. C. E. Mickel.

Charles William Nash, Winnipeg, Manitoba, Canada

B.Sc. '42, University of Manitoba; M.S. '47, University of Minnesota. Major: Pharmacology. Minor: Physiological Chemistry. Thesis: Pharmacological Studies of Peripheral Resistance Changes under the Influence of Epinephrine, Norepinephrine and Serotonin. Major Adviser: Prof. H. N. Wright.

Leonard Nelson, Lincoln, Neb.

B.A. '42, University of Pennsylvania; M.A. '50, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: Distribution of Enzymes in Head, Tail and Midpiece Fragments of Bull Spermatozoa. Major Adviser: Prof. H. B. Steinbach.

Robert Arthur Patnode, Decatur, Ga.

B.A. '44, M.S. '46, University of Minnesota. Major: Bacteriology. Minor: Physiological Chemistry. Thesis: A Study of Host Tissue Factors and Their Relationship to Resistance in Tuberculosis. Major Adviser: Prof. D. W. Watson.

Walter Henry Pierce, Raleigh, N.C.

B.S. with honors '36, North Carolina State College of Agriculture and Engineering; M.S. '48, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: Opportunities for Economic Adjustments in Farming Systems, Central Coastal Plain, North Carolina, with Particular Reference to Small Tobacco Farms, Wilson County. Major Adviser: Prof. G. A. Pond.

James Samuel Plaxico, Blacksburg, Va.

B.S. '45, M.S. '48, Clemson Agricultural College. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Intensive Forage Systems. Major Adviser: Prof. S. A. Engene.

William Roy Pritchard, St. Paul

D.V.M. '46, Kansas State College of Agriculture and Applied Science. Major: Veterinary Medicine. Minor: Pharmacology. Thesis: Trichloroethylene-Extracted Soybean Oil Meal (Teesom) Poisoning in Animals. Major Adviser: Prof. M. H. Roepke.

Charles Raymond Rohde, Pendleton, Ore.

B.S. with honors '47, Montana State College. Major: Plant Genetics. Minor: Plant Pathology. Thesis: A Study of the Inheritance of the Reaction to Leaf Rust and Other Characters in Triangular Wheat Crosses. Major Adviser: Prof. E. R. Ausemus.

John Harris Schwab, Minneapolis

B.A. '49, M.S. '50, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Parasite and Host Factors in Experimental Group A Streptococcal Infections. Major Adviser: Prof. D. W. Watson.

Howard Henry Shear, St. Paul

B.A. '49, M.S. '52, University of Minnesota. Major: Bacteriology. Minor: Cancer Biology. Thesis: Studies Concerning the Properties of an Accelerant Factor for Transplantable Mouse Mammary Cancer. Major Adviser: Dr. J. T. Syverton.

Kalmer Elief Stordahl, McIntosh

B.S. '47, Bemidji State Teachers College; M.A. '50, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Stability of Strong Vocational Interest Blank Patterns for Pre-college Males. Major Adviser: Prof. W. E. Dugan.

Robert Junior Swan, Madison, Wis.

B.A. '46, University of Michigan; M.A. in Public Administration '48, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Application of a Couple Analysis Approach to the Minnesota Multiphasic Personality Inventory in Marriage Counseling. Major Advisers: Profs. C. G. Wrenn and W. E. Dugan.

John Emmanuel Tsouderos, Minneapolis

B.A. '48, M.A. '50, University of Minnesota. Major: Sociology. Minor: Economics. Thesis: The Formalization Process of the Social Structure in Voluntary Associations. Major Adviser: Prof. F. S. Chapin.

John William Ward, Princeton, N.J.

B.A. *cum laude* '45, Harvard College; M.A. '50, University of Minnesota. Major: American Studies. Thesis: Andrew Jackson: Symbol for an Age (1815-1845). Major Adviser: Prof. H. N. Smith.

Charles Dunton Watland, Minneapolis

B.A. '34, Swarthmore College; M.A. '37, University of Minnesota. Major: Spanish. Minor: French. Thesis: The Literary Education of Rubén Darío. Major Adviser: Prof. R. L. Grismer.

Allen Franklin Wiese, Rochester

B.S. with high distinction '49, M.S. '51, University of Minnesota. Major: Agronomy. Minor: Soils. Thesis: The Phytotoxicity of Isopropyl N-Phenyl Carbamate and Related Compounds on Wild Oats (*Avena fatua*) and Their Selective Action on Several Crop Plants. Major Adviser: Prof. R. S. Dunham.

John Ferdinand Wilhelm, Minneapolis

B.S. '43, M.A. '44, Northwestern University. Major: American Studies. Thesis: The Cultural Image of the Salesman in Four Leading American Periodicals: 1898 to 1914. Major Adviser: Prof. H. N. Smith.

George Gordon Windell, Newark, Del.

B.A. with honor '40, University of Tulsa; M.A. '41, University of Missouri. Major: History. Minor: Political Science. Thesis: Catholic Opposition to the Unification of Germany, 1866-71. Major Adviser: Prof. L. D. Steefel.

Ray Roberts Woodward, Miles City, Mont.

B.S. '39, M.S. '47, Montana State College. Major: Animal Husbandry. Minor: Plant Genetics. Thesis: An Analysis of the Relationships Between Pre-Slaughter and Post-Slaughter Evaluations of Beef Cattle. Major Adviser: Prof. L. M. Winters.

Keshao Shrawan Yawalkar, Warud, India

B.Sc. '47, Nagpur University. Major: Agronomy. Minor: Soils. Thesis: Performance of Birdsfoot Trefoil Alone and in Competition with Other Species in Pastures. Major Adviser: Prof. A. R. Schmid.

Doctor of Philosophy in Medicine

Russell Howard Wilson, St. Paul

B.S. '38, M.D. '40, University of Oklahoma; M.S. in Med. '49, University of Minnesota. Major: Medicine. Minor: Pathology. Thesis: Pathologic-Physiology of Chronic Diffuse Pulmonary Emphysema. Major Adviser: Dr. R. V. Ebert.

Doctor of Philosophy in Surgery

Frederick Samuel Cross, Minneapolis

B.A. '42, Oberlin College; M.D. '45, Western Reserve University. Major: Surgery. Minor: Pathology. Thesis: The Effect of Increased Atmospheric Pressures and the Inhalation of 95 Percent Oxygen and Helium-Oxygen Mixtures on the Viability of the Bowel Wall and the Absorption of Gas in Closed Loop Obstructions. Major Adviser: Dr. O. H. Wangensteen.

Bernard Zimmermann, St. Paul

M.D. '45, Harvard University. Major: Surgery. Minor: Physiology. Thesis: A Study of Endocrine Factors Related to Electrolyte Balance in the Postoperative Surgical Patient. Major Adviser: Dr. O. H. Wangensteen.

CAPS AND GOWNS

AN EXPLANATION

In the medieval city, clothing not unlike that worn by those participating in this commencement was common. The modern academic costume has evolved from the dress of the medieval guilds and their early religious orders.

Today, everyone with a college or university degree may wear the black academic gown. Hoods, which are omitted by seniors who are candidates for degrees, are worn by graduates. At the University of Minnesota, the lining of the hood has a maroon chevron on an old gold ground to represent the University colors. A University faculty member who holds a degree from another college or university wears the colors of his own alma mater.

Distinctions among sleeves indicate the type of degree held by the wearer. A long, pointed sleeve indicates a Bachelor's degree, while a long, closed sleeve with a slit near the upper part of the arm designates a Master's degree. A round, open sleeve marks a Doctor's degree.

The velvet edging on hoods is the color which stands for the field of study of the gown's wearer. It may be white for Arts and Letters, gold-yellow for Science, maize for Agriculture, Forestry, and Home Economics, grey for Veterinary Medicine, or light blue for Education. Orange denotes Technology; dark blue, Philosophy; purple, Law; green, Medicine; and pink, Music. Public Health is shown by salmon pink edging, Dentistry by lilac, Pharmacy by olive, and Commerce and Accounting by drab.

The Doctor's costume also has velvet trimming on the rest of the gown, including crossbars on the sleeves. The trimming may either be black or may match the color of the hood edging.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidate is an honor student.

Caps, or mortarboards, too, have significance. The President of the University is the only one who may wear a velvet cap and a gold tassel.

For the Master's and Doctor's degrees the tassels are always black, but candidates for the Bachelor's degree at this commencement wear tassels which indicate their school or college 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 of the Institute of Agriculture.....	maize
College of Education.....	light blue
School of Business Administration.....	drab
College of Medical Sciences.....	green
Graduate School.....	black

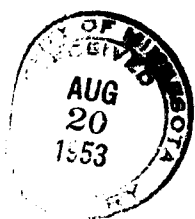


UNIVERSITY OF MINNESOTA

Senior Reception

July 1953

- The members of the Senior Class, their relatives and friends are invited by President and Mrs. 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. Dr. Malcolm M. Willey, Vice President, Academic Administration, will represent President Morrill, who is abroad at this time.
- Assisting in the Reception are members of the All-University Congress; Grey Friars and Iron Wedge, senior honorary organizations for men; Mortar Board, senior honorary organization for women; Chimes, junior honorary organization for women; and Phoenix and Silver Spur, junior honorary organizations for men. These students have maroon and gold identifications.
- Those in the receiving line will be Vice President Malcolm M. Willey, Dean Thomas A. H. Teeter, Dean of the Summer Session, and Mrs. Teeter, and Miss June Carlson, Senior Coordinator, All-University Congress.
- All guests are urged to register at the appropriate tables presided over by members of Phoenix and Silver Spur. The signed pages will be bound and preserved by the class of 1953.
- Punch will be served. The young ladies presiding at the punch tables are members of Chimes.



THE
UNIVERSITY OF MINNESOTA

Announces Its

August Commencement

1953

ON THE MALL FACING
NORTHROP MEMORIAL AUDITORIUM
THURSDAY EVENING, AUGUST 20
AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, 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 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 E. E. Novak, New Prague

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 has this year celebrated its one hundred and second 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 doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—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 112,500 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 nearly 19,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, 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, and recreation and health consultants give effective aid and 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 its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, poliomyelitis, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, supersonics and transonics, to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the Minneapolis Symphony, the University Artists Course, radio station KUOM, the University Theatre, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly 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 to be constructed and for the great Mayo Memorial building to be erected over the coming months. Through the American Legion and auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart diseases.

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 University Alumni Association and the Greater University Fund and to return as frequently as possible to visit us here at the University.

Order of Events

THE NATIONAL ANTHEM (first stanza only): The entire audience and Mr. Roy A. Schuessler, M.A., Associate Professor of Music, soloist.

INVOCATION: The Reverend Edwin C. Johnson, Director of the Congregational-Presbyterian Fellowship, St. Paul campus.

SPEAKING FOR THE UNIVERSITY: President James Lewis Morrill, LL.D., President of the University.

COMMENCEMENT ADDRESS: "Limit: Twenty Minutes," Mr. Ralph W. Keller, Manager, Minnesota Editorial Association.

CONFERRING OF DEGREES: Dean Thomas A. H. Teeter, Summer Session, will introduce the several deans or their representatives, who will present the candidates for degrees in their respective colleges. These, in order of their introduction are: Assistant Dean Huntington Miller, LL.B., University Extension; Dean Horace T. Morse, Ph.D., General College; Assistant Dean Roger B. Page, Ph.D., College of Science, Literature, and the Arts; Assistant Dean Elmer W. Johnson, E.E., M.E., Institute of Technology; Assistant Dean Austin A. Dowell, Ph.D., College of Agriculture, Forestry, and Home Economics, Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Assistant Dean Richard K. Gaumnitz, Ph.D., School of Business Administration; Professor Earl B. Fischer, Ph.D., College of Pharmacy; Acting Assistant Dean William F. Maloney, M.D., College of Medical Sciences; Associate Dean John G. Darley, Ph.D., Graduate School. All degrees will be conferred by President Morrill. Immediately afterwards, certificates and diplomas will be presented by each dean to the graduates of his college.

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

"HAIL! MINNESOTA," the University's alma mater song: The audience and Mr. Roy A. 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. Paul O. Manz, organist.

Psalm XIX - - - - - Marcello

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 conferred as indicated on those listed below and upon such others as may meet the requirements for Reserve Officers in the Armed Services.

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Allan C. Feller, Winona

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 EXTENSION DIVISION

Business Certificate

Edwin R. Erikson, Minneapolis

Abraham Singer, St. Paul

GENERAL COLLEGE

Associate in Arts

James V. Mattson, Minneapolis

Frank Delon Pickard, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Muriel Elaine Gustafson, Minneapolis

Robert C. Schmitt, Minneapolis

Norman John Viken, Jr., Minneapolis
Eileen Marie Wenzl, Owatonna

Bachelor of Arts

- Maxwell Eugene Alvord, Minneapolis,
CUM LAUDE
Roger Norman Amdall, Minneapolis
Barbara Mae Anderson, Minneapolis,
CUM LAUDE
Everett William Berg, Red Wing
John Alexander Berman, A.A., Sacra-
mento, Calif.
Dean Walter Boggs, Minneapolis,
CUM LAUDE
Robert Douglas Brandsberg, Belle
Fourche, S.D.
Maryann Celestine Cadwell, Fort
Dodge, Iowa
Beverly Carlene Canfield, Minne-
apolis
John G. Engberg, Minneapolis
Allan C. Feller, Winona
Betty Marie Finegold, Winona
Frima Blume Gordon, St. Paul
Mathew John Granlund, Virginia
Irona Mae Grimes, Minneapolis
Barbara Nichols Hansen, Minneapolis
Kenneth James Hansen, St. Paul
Charles Nelson Haugen, Minneapolis
Beverly Joan Hudy, Minneapolis
Frederick William Jensen, Jr., Duluth,
CUM LAUDE
Peggy Anne Keith, A.A., Chester,
Mont.
John Howard Kendall, Sioux City,
Iowa
Alan Lee Kilimann, Duluth
Carolyn McComas Kimme, Minne-
apolis, MAGNA CUM LAUDE
Constance Marie King, Minneapolis
James Willard Lange, Minneapolis
Karl Arthur Lepping, Minneapolis
Paul Francis Mattheisen, St. Louis
Park, CUM LAUDE
Joseph Leo Melzarek, St. Paul
Doris Mae Nelson, Minneapolis
Miles Ashby Nelson, Minneapolis
Norman Ellsworth Nissen, A.A.,
Fergus Falls
Ralph Frank Norvitch, Hibbing
Allan T. Quello, Minneapolis
Allen Morton Schumeister, St. Paul
Nancy Smith Scott, A.L.A., Minne-
apolis
Wesley Paul Simons, Bemidji
Howard How Wong, Minneapolis
Robert M. Wright, Minneapolis,
MAGNA CUM LAUDE
Ruth F. Zink, Minneapolis

Bachelor of Science in Library Science

- Jacqueline Anderson, B.A., M.A.,
St. Paul
Eva Ballin Ansell, B.A., Minneapolis

INSTITUTE OF TECHNOLOGY

Bachelor of Science

John Barkley Schroeder, Duluth

Bachelor of Civil Engineering

Bernard William Quinlan, Minneapolis

Bachelor of Mechanical Engineering

Kenneth Pehr Olson, Minneapolis

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

Bachelor of Science

Roy Belmont Anderson, Cloquet,
Agriculture
Kenneth Eugene Avery, Brainerd,
Agriculture
Winna Fae Serene Ingebrigtsen,
Minneapolis, Home Economics

Roger Gayle Lambert, Minneapolis,
Science Specialization
Jacqueline Loos Oliver, Minneapolis,
Home Economics

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

Bachelor of Science

Charles Dalton Carpenter, Hibbing,
Agricultural Education
David Wesley Gustafson, Minne-
apolis, Agricultural Education
Margaret B. Johnson, Hutchinson,
Home Economics Education

Dennis Irving Lehto, Eveleth, Agri-
cultural Education, WITH DISTINC-
TION

Doreen Nelson Murray, Webster,
Wis., Home Economics Education

COLLEGE OF EDUCATION

Bachelor of Science

Mary Anne Casserly, Groton, Conn.,
WITH DISTINCTION*
Mildred Irene Clark, Clarkton, N.C.,
WITH DISTINCTION*
Helen Evohn Cumming, Granite
Falls*
Alice DeWispelaere, Ivanhoe
Patricia Ann Dwyer, Minneapolis,
WITH DISTINCTION
Martha Jane Gates, Albert Lea
Sigrid Groven, Bagley, WITH DISTINC-
TION
Richard William Halverson, Granite
Falls
Teresa Jane Heffron, New Richmond,
Wis.*

Theron Hegg, Minneapolis, WITH DIS-
TINCTION

Gordon Bernard Johnson, Minne-
apolis

Geraldine Rose Koch, Minneapolis,
WITH DISTINCTION

Marguerite Gerdes Krause, B.S.,
Minneapolis

Mildred I. Krenke, B.A., St. Boni-
facius

Arlene Sophia Krieger, Watervliet,
Mich.*

Viola Marie Lux, Minneapolis
Ernestine Winston Marshall, Minne-
apolis

Mary Ellen Maute, Cecelia

* Nursing Education Curriculum.

Pauline Eleanor Maxwell, Pittsfield,
Mass., WITH HIGH DISTINCTION*

E. Bernice McCourt, Winona
David Christopher Melby, Akeley
Joan Theresa O'Neill, St. Paul
Katherine Rae Onsgard, Duluth
Geraldine Elizabeth Pearson, St. Paul
Don Carl Perrine, Blue Earth

James Clifford Pollard, Minneapolis,
WITH DISTINCTION

Mickey Jolene Preston, Minneapolis,
WITH DISTINCTION

Orvetta Howard Riley, Minneapolis
Howard Clemens Rosenwinkel, B.A.,
St. Paul

Douglas Elton Sautbine, St. Paul,
WITH DISTINCTION

Beverly Lou Ann Schwen, Blue Earth
Barbara Dixon Starn, Minneapolis
Mary Louise Stein, Minneapolis
Carol Carlson Sterling, Minneapolis,
WITH DISTINCTION

Harold Alan Strobel, Minneapolis
Robert Dale Svitak, Minneapolis
Irma Updegraff, Good Thunder
Marie Louise Wagner, Minneapolis
Mary Claire Weber, Mankato
Walter Whitney West, B.S., Park
Falls, Wis.

Gloria Ann Witt, B.A., Rochester,
WITH DISTINCTION

Bachelor of Science in Library Science

Mildred Aarvig Green, B.A., Moorhead

Master of Education

Harold Ervin Ahlbom, B.A., Detroit
Lakes

Duane Lester Boelter, B.A., Preston
Nancy Edes, B.S., Hopkins

Thomas James Feely, B.S., St. Paul
Jerome Edward Gates, B.S., Minne-
apolis

Bernard Alfred Grady, B.S., Hamilton,
Ontario, Canada

Winnifred Alice Hoch, B.A., Minne-
apolis

Donald Robert Kvam, B.A., St. Paul

Rueben Gustav Lieske, B.A., Chaska
James Allan McDonell, B.S., Duluth

Albert Leroy Meuli, B.A., Minne-
apolis

Harry Albert Meyer, B.A., Duluth
Kathleen Ann Pull, B.S., St. Cloud

Genevieve Ann Schweizer, B.S.,
St. Paul

Kenneth Sherman, B.S., Hibbing
Arthur Carl Sloth, B.A., Chicago, Ill.

Constance Eve Zierden, B.S.,
St. Cloud

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Clifford Eugene Alexander, Minne-
apolis

Allan Eugene Bergstrom, Adams
Norman Edwin Davis, St. Paul

Edward Jennings Doyle, Jr., St. Paul
Nyles Warren Ellefson, Ridgeland,
Wis.

Donald Ray Flessner, Fonda, Iowa
Jerold Arthur Harlow, Minneapolis

Donald Robert Hasselberg, Minne-
apolis

Walter F. Lehmann, Minneapolis
Gerald Mason Loomis, Minneapolis

Gerald Stanley Pettersen, Winona
Julin Arthur Rydell, Minneapolis

Earl Stanley Sanford, Norfolk, Neb.
Paul Arnold Simonett, Minneapolis

Walter Ludwig Teeuwen, Minne-
apolis

Edward Joseph Whelan, Albert Lea

* Nursing Education Curriculum.

Bachelor of Science in Economics

David Bryce Ekberg, Edina

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

John Raymond Dearman, Winona
Joseph Milton Liss, Minneapolis

Albert Edward Rysavy, Blooming
Prairie
Robert Milton Thurn, Minneapolis

LAW SCHOOL

Bachelor of Science in Law

Richard Arthur Burkhardt, Plainview

Master of Laws

Wilbur Fee Bowker, B.A., LL.B., Edmonton, Alberta, Canada

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Professional Nursing**

Jo Ann Cash, Des Moines, Iowa
Margaret Carolyn Gunn, St. James,
WITH DISTINCTION
Beverly Lorraine Hagen, Montevideo
Marilyn Ruth Hamre, Minneapolis,
WITH HIGH DISTINCTION
Barbara Ruth Johnson, Oakley, Kan.,
WITH HIGH DISTINCTION
Gladys Lucille Johnson, Rose Creek

Jean Grace Lundahl, Hopkins
Marlys Marie Robertson, Jamestown,
N.D.
Jane Hage Runquist, Madelia
Bennie Gordon Strom, St. Paul
Karen Thune Sturgeon, Sheridan,
Wyo., WITH DISTINCTION
Pauline Elizabeth Thurston, B.A.,
St. Paul

Bachelor of Science

Doris Genevieve Durkee, Fitchburg,
Mass., Public Health Nursing,
WITH HIGH DISTINCTION
John Willard Horns, St. Paul, Medi-
cine
Gertrude Isaacs, R.N., Winnipeg,
Manitoba, Canada, Public Health
Nursing, WITH DISTINCTION

Dorothy Fisher Luthringer, R.N.,
Monticello, Ind., Public Health
Nursing
Kenneth Fred Swaiman, B.A., St.
Louis Park, Medicine

** These degrees are conferred subject to the satisfactory completion of nursing practice prior to December 17, 1953.

Master of Nursing Administration

Theresa Sarah LaPlante, B.S.,
Newburyport, Mass.

Almira Hoppe Ockerman, B.S.,
Minneapolis
Irene Ann Sobotka, B.S., Minneapolis

GRADUATE SCHOOL

Master of Arts

Donald Norris Anderson, Zumbrota
B.S. '40, Mankato State Teachers College.
Field of Concentration: Industrial Education.

Lilly Augusta Anderson, Minneapolis
B.S. '42, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Carlos Arthur Avery, Glenwood
B.A. '30, University of Minnesota; B.S. '49,
St. Cloud State Teachers College. Field of
Concentration: Educational Administration.

Arthur John Barsness, Hutchinson
B.S. '43, St. Cloud State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Norman Edwin Barth, White Bear
Lake
B.A. '50, Luther College. Field of Concen-
tration: History.

John A. Beaumont, Springfield, Ill.
B.A. '26, Union College. Field of Concen-
tration: Curriculum and Instruction.

Robert Andrew Bennett, Albert Lea
B.A. '49, University of California at Los
Angeles; B.S. '51, University of Minnesota.
Field of Concentration: Educational Psy-
chology.

Eugene Arthur Berg, Duluth
B.A. '41, Carleton College. Field of Concen-
tration: Curriculum and Instruction.

Nathan Bindler, Duluth
B.A. *cum laude* '52, University of Minnesota.
Field of Concentration: Curriculum and In-
struction.

Alice Lorraine Binger, Renville
B.S. '44, St. Cloud State Teachers College.
Field of Concentration: Speech.

Ruth Miller Boehme, Duluth
B.S. '48, Moorhead State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Charmion Jeannine Bolles, Janesville,
Wis.
B.A. '50, University of Wisconsin. Field of
Concentration: Educational Psychology.

Norman Richard Braton, Barnesville
B.S. '46, St. Cloud State Teachers College.
Field of Concentration: Industrial Education.

Charles Richard Bruning, Solen, N.D.
B.S. '49, University of Minnesota. Field of
Concentration: Educational Administration.

William Zoltan Brust, St. Paul
B.A. *cum laude* '44, University of Minnesota.
Major: German. Minor: French. Thesis: Hugo
von Hofmannsthal's "Elektra" and Jean-Paul
Sartre's "Les Mouches."

Loyal William Burneister, Northfield
B.S. '42, St. Cloud State Teachers College.
Field of Concentration: Curriculum and In-
struction.

George Franklin Cashman, Minne-
apolis
B.A. '48, St. John's University. Field of Con-
centration: English.

Dante Peter Ciochetto, Chisholm
B.S. '47, St. Cloud State Teachers College.
Field of Concentration: English.

John Frank Clay, Lewiston
B.S. '47, University of Minnesota; B.S. '48,
Winona State Teachers College. Field of
Concentration: Educational Administration.

Margaret Irene Conway, Minneapolis
B.A. '22, University of Wisconsin; M.A. '30,
Ph.D. '39, University of Minnesota. Field of
Concentration: Educational Psychology.

John Quentin Cook, Hot Springs, S.D.
B.A. *summa cum laude* '52, Hamline Univer-
sity. Field of Concentration: History.

William Oliver Cook, Superior, Wis.
B.S. '49, University of Minnesota. Field of
Concentration: Industrial Education.

- Lyman D. Coombs, St. Paul
B.A. *cum laude* '51, University of Minnesota.
Field of Concentration: Political Science.
- Martha Lucille Dean, Arlington, Va.
B.S. '52, Alabama Polytechnic Institute. Field
of Concentration: Child Welfare.
- Richard Alan DeGuise, Minneapolis
B.S. with distinction '52, University of Minne-
sota. Field of Concentration: Education.
- Margaret Peterson Doren, St. Paul
B.S. with distinction '35, University of Minne-
sota. Field of Concentration: Educational Psy-
chology.
- Marian Gertrude Drake, Blue Earth
B.A. '19, University of Minnesota. Field of
Concentration: Curriculum and Instruction.
- Harold Bruce Dreyer, Bemidji
B.S. '52, Bemidji State Teachers College. Field
of Concentration: Curriculum and Instruction.
- William John Ellena, Duluth
B.S. '51, University of Minnesota. Field of
Concentration: Curriculum and Instruction.
- Frank F. Engdahl, Minneapolis
B.S. '49, University of Minnesota. Field of
Concentration: Curriculum and Instruction.
- Eleanore Myrtle Ferguson, Minne-
apolis
B.S. with distinction '45, University of Minne-
sota. Field of Concentration: Curriculum and
Instruction.
- Robert Lewis Field, Winona
B.S. '48, Winona State Teachers College.
Field of Concentration: Educational Admin-
istration.
- Richard Carlton Fosse, Minneapolis
B.A. '49, University of Minnesota. Major:
Music. Minor: Art History. Thesis: *The Life
and Works of Nicolaus Bruhns, 1665-1697.*
- Robert Melvin Franken, Schaller,
Iowa
B.A. '48, Morningside College. Field of Con-
centration: Education.
- Joan Louise Fritzingler, Slatington, Pa.
B.A. '52, University of Minnesota. Field of
Concentration: English.
- Russell Gettinger, River Falls, Wis.
B.S. '38, River Falls State Teachers College.
Field of Concentration: Educational Psy-
chology.
- Donald Werner Gieschen, St. Paul
B.S. '50, Northwestern University. Major:
Philosophy. Minor: Psychology. Thesis: *C. D.
Broad's Treatment of Causality.*
- Stanley Wynne Gilbertson, Minne-
apolis
B.S. '50, University of Minnesota. Field of
Concentration: Curriculum and Instruction.
- Rosemary Gilmore, Minneapolis
B.S. '36, University of Minnesota. Field of
Concentration: Curriculum and Instruction.
- Robert Lee Granger, West Union,
Iowa
B.A. '46, Iowa State Teachers College; M.M.
'49, The New England Conservatory of Music.
Field of Concentration: Educational Admin-
istration.
- Melvin Maurice Grimstad, Minne-
apolis
B.S. '49, University of Minnesota. Field of
Concentration: Curriculum and Instruction.
- Lauren Hagge, Rochester
B.A. '46, Iowa State Teachers College. Field
of Concentration: Physical Education.
- Marguerite Elna Hallquist, Amery,
Wis.
B.A. *cum laude* '47, Macalester College. Field
of Concentration: American Studies.
- Paul Leo Halverson, Stillwater
B.E. '34, LaCrosse State Teachers College.
Field of Concentration: Educational Admin-
istration.
- Ruth A. Hanson, Fargo, N.D.
B.S. '40, Moorhead State Teachers College.
Field of Concentration: Curriculum and In-
struction.
- Elsie Katherine Holt, Minneapolis
B.S. with distinction '43, University of Minne-
sota. Field of Concentration: Curriculum and
Instruction.
- Donald Ellsworth Holycross, Marshall
B.S. '48, Bemidji State Teachers College.
Field of Concentration: Educational Adminis-
tration.
- Lester Ross Horn, New Auburn, Wis.
B.S. '49, River Falls State Teachers College.
Field of Concentration: Educational Psy-
chology.
- Bernard Owen Hughes, Menomonie,
Wis.
B.S. '48, The Stout Institute. Field of Con-
centration: Industrial Education.

Warren Henry Hutchens, St. Cloud
B.A. '42, Iowa State Teachers College. Field
of Concentration: Curriculum and Instruction.

Melvyn Richard Johnson, Minne-
apolis
B.S. '50, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Frank Anthony Kadlec, Minneapolis
B.S. '52, Eau Claire State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Sirkka T. Kamu, Helsinki, Finland
B.A. '46, University of Helsinki. Field of
Concentration: Educational Psychology.

Elmer August Kastner, Lamberton
B.A. '38, Wartburg College. Field of Con-
centration: Educational Administration.

Zarm Clarine Keljik, St. Paul
B.S. '48, University of Minnesota. Field of
Concentration: American Studies.

Evelyn Bernice Kittlesby, Calmar,
Iowa
B.A. '32, State University of Iowa. Field of
Concentration: Educational Psychology.

Charles Knickrehm, Kenosha, Wis.
B.A. '48, DePauw University. Field of Con-
centration: English.

Richard Bradley Kozelka, Cannon
Falls
B.A. *summa cum laude* '46, University of
Minnesota. Major: Philosophy. Minor: English.
Thesis: Some Epistemological Problems in
Karl Barth's Philosophy.

Kenneth Christian Kragh, Hendricks
B.S. '49, South Dakota State College of
Agriculture and Mechanic Arts. Field of Con-
centration: Curriculum and Instruction.

Richard Henry Laube, St. Peter
B.A. '40, Valparaiso University. Field of Con-
centration: Business Administration.

Floyd Wayne Lekvold, Naples, S.D.
B.S. '41, South Dakota State College of Agri-
culture and Mechanic Arts. Field of Concen-
tration: Curriculum and Instruction.

Harry Monfoon Leong, San Diego,
Calif.
B.A. '52, Stanford University. Field of Con-
centration: American Studies.

George Lewis Levine, Bronx, N.Y.
B.A. '52, New York University. Field of Con-
centration: English.

Beverly Jean Lewis, St. Paul
B.A. '50, Bethel College; B.S. '51, University
of Minnesota. Field of Concentration: Child
Welfare.

Marland LeRoy Madson, Butterfield
B.A. '52, St. Olaf College. Field of Concen-
tration: Curriculum and Instruction.

William Eugene Magajna, Mountain
Iron
B.A. '50, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

William Peter Mancina, Duluth
B.S. '48, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

James Oliver Mauseth, St. Paul
B.A. '52, Macalester College. Field of Con-
centration: Library Science.

Charles Burton McNeil, Duluth
B.A. '51, University of Minnesota. Field of
Concentration: Psychology.

Mervin Dale Meyer, Lake Crystal
B.A. '51, St. Olaf College. Field of Concen-
tration: German.

Raimonds Reinis Miesnieks, Riga,
Latvia
B.A. '51, Concordia College. Field of Con-
centration: German.

Francis William Miller, Faribault
B.A. '48, St. John's University. Field of Con-
centration: Economics.

Rowe Burrell Million, Red Wing
B.A. '35, Macalester College. Field of Con-
centration: Speech

Richard Peter Moll, Williamson, N.Y.
B.A. '51, Brown University. Field of Concen-
tration: Psychology.

John Maurice Moriarity, Duluth
B.E. '31, Winona State Teachers College.
Field of Concentration: Educational Admin-
istration.

Hermann S. Muenster, Munich, Ger-
many
B.S. '50, Die Technische Hochschule. Major:
Sociology. Minor: Agricultural Economics.
Thesis: Outlook for the Hired Farm Labor
Force in Western Germany.

Esther May Neller, Brainerd
B.S. '14, Macalester College. Field of Con-
centration: Curriculum and Instruction.

- Edwin Leonard Nelson, Sioux City,
Iowa
B.S. '49, University of Minnesota. Field of
Concentration: Curriculum and Instruction.
- George Henry Nielsen, Stillwater
B.A. '35, Augustana College. Field of Con-
centration: Educational Administration.
- Dorothy Schoen Nudell, Minneapolis
B.A. *magna cum laude* '47, University of
Minnesota. Field of Concentration: Psy-
chology.
- Kenneth Efford Olson, Argyle
B.S. '48, Bemidji State Teachers College.
Field of Concentration: Industrial Education.
- Eli Orlich, Duluth
B.S. '40, University of Minnesota. Field of
Concentration: Curriculum and Instruction.
- Kenneth Gerald Parker, Kimball
B.S. '38, Moorhead State Teachers College.
Field of Concentration: Educational Admin-
istration.
- Frederick Leonard Phillips, Jr.,
Livingston, Mont.
B.A. *cum laude* '46, College of St. Thomas.
Field of Concentration: Educational Admin-
istration.
- Scott Todd Pike, Boston, Mass.
B.A. '48, Middlebury College. Field of Con-
centration: American Studies.
- Norman Dale Pippin, St. Paul
B.A. '49, Macalester College; B.S. '51, Uni-
versity of Minnesota. Field of Concentration:
Curriculum and Instruction.
- Alphonse Dante Pontrelli, Glendive,
Mont.
B.S. '47, St. John's University. Field of Con-
centration: Educational Administration.
- Frank Francis Rukavina, Virginia
B.A. *cum laude* '47, Hamline University. Field
of Concentration: Educational Administration.
- Orwin Alexander Rustad, Northfield
B.A. '42, St. Olaf College. Field of Concen-
tration: Education.
- Lillian Astrid Ryberg, Minneapolis
B.S. '48, University of Minnesota. Field of
Concentration: Spanish.
- Edward Bernhard Savage, Prescott,
Wis.
B.A. '48, Hamline University. Major: English.
Minor: Speech. Thesis: The Conflict of So-
cialism and Middle Class Values in the Plays
of Harley Granville-Barker.
- Mabel Dorothy Schauland, Barnum
B.S. '49, University of Minnesota. Field of
Concentration: Curriculum and Instruction.
- Erhart Alfred Schinske, St. Peter
B.A. '40, Hamline University. Field of Con-
centration: Speech.
- Betty Ann Sigan, Gladstone, Mich.
B.A. '51, Michigan State College. Field of
Concentration: Education.
- Sister Mary St. Jude Haywood, Min-
neapolis
B.A. '42, State University of Iowa. Field of
Concentration: Curriculum and Instruction.
- Louis George Skubic, Sault Ste. Marie,
Mich.
B.S. '47, University of Minnesota. Field of
Concentration: Industrial Education.
- Worthington LeHuray Smith, St.
Paul
B.A. '50, Yale University. Field of Concen-
tration: American Studies.
- Edwin Lester Stull, St. Paul
B.S. '41, Winona State Teachers College.
Field of Concentration: Educational Psy-
chology.
- John Carl Sundberg, Fairmont
B.S. '40, St. Cloud State Teachers College.
Field of Concentration: Educational Admin-
istration.
- Dirk Pieter Ten Brinke, Minneapolis
B.S. with high distinction '43, University of
Minnesota. Major: Educational Psychology.
Minor: Zoology. Thesis: Science Teaching in
London Secondary Schools.
- Mollie Jackie Thissen, Ellendale
B.S. '52, Mankato State Teachers College.
Field of Concentration: Curriculum and In-
struction.
- James Emmett Tollefson, Lamberton
B.S. '42, Mankato State Teachers College.
Field of Concentration: Educational Admin-
istration.
- E. Margaret S. Trautwein, Minne-
apolis
B.A. '37, Augsburg College. Field of Concen-
tration: English.

Robert Greenwood Tuttle, White
Bear Lake
B.S. '47, St. Cloud State Teachers College.
Field of Concentration: Speech.

Shirley Ann Verstegen, Sioux City,
Iowa
B.A. '47, MacMurray College. Field of Con-
centration: Curriculum and Instruction.

Ramona Korb Volkmann, Forest
Lake
B.E. '35, Oshkosh State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Lawrence Andrew Wahoski, St. Paul
B.A. '52, University of Minnesota. Field of
Concentration: Journalism.

Ward Brisbine Wheeler, Jr., Willmar
B.S. '43, University of Minnesota. Field of
Concentration: Industrial Education.

Howard O. Wickler, Blooming
Prairie
B.S. '49, Mankato State Teachers College.
Field of Concentration: Industrial Education.

Richard Arnold Wiederanders,
Waverly, Iowa
B.A. '49, Wartburg College. Field of Con-
centration: Educational Administration.

Winton Thomas Williams, Pembroke
East, Bermuda
B.S. '49, Tuskegee Institute. Field of Con-
centration: Curriculum and Instruction.

Master of Arts in Public Administration

Raymond Tyre Olsen, Bemidji
B.A. '51, Bemidji State Teachers College.
Field of Concentration: Public Administration.

Master of Business Administration

Robert Davis Anderson, Duluth
B.B.A. with distinction '52, University of
Minnesota. Field of Concentration: Business
Administration.

Robert Eugene Harris, Granite Falls
B.B.A. '52, University of Minnesota. Field
of Concentration: Business Administration.

Quentin Frederick Wessman, Dassel
B.B.A. with distinction '52, University of
Minnesota. Field of Concentration: Economics.

Master of Science

Gregorio Weber Amunátegui, Santi-
ago, Chile
Graduate '51, Catholic University of Chile.
Field of Concentration: Agricultural Eco-
nomics.

Dennis Henry Cox, St. Paul
B.S. '50, University of Minnesota. Major:
Dairy Husbandry. Minor: Agricultural Bio-
chemistry. Thesis: The Use of Nordihydro-
guaiaretic Acid to Stabilize Added Vitamin A
in Fluid and Dry Milks.

Robert Frederick Drescher, Hibbing
B.A. '50, University of Minnesota. Major:
Plant Pathology. Minor: Agricultural Bio-
chemistry. Thesis: Experimental Plugging of
Felts Used in the Paper Industry.

Walter Gordon Enstrom, Chicago, Ill.
B.S. '52, University of Illinois. Field of Con-
centration: Agronomy.

Donald Anthony Leister, Pittsburgh,
Pa.
B.S. '51, Carnegie Institute of Technology.
Major: Organic Chemistry. Minor: Physical
Chemistry. Thesis: Competitive Deuteration
of Aromatic Hydrocarbons.

Abdel-Aziz Mostafa Omar, Cairo,
Egypt
B.Sc. '34, Fouad I University; Dipl. Agric.
'39, Cambridge University. Field of Con-
centration: Plant Genetics.

Roger Noel Pederson, Minneapolis
B.S. with distinction '52, University of Minnesota. Major: Mathematics and Mechanics. Minor: Physics. Thesis: The Asymptotic Evaluation of an Integral Involving Two Large Parameters.

Maddury Venkata Ramarao, Cocanada, India

B.Sc. (Hons.) '47, M.Sc. '48, Andhra University. Field of Concentration: Pharmaceutical Chemistry.

Patricia June Rand, St. Paul

B.S. '47, University of Minnesota. Major: Botany. Minor: Zoology. Thesis: The Plant Communities and History of the Carlos Avery Game Refuge, Anoka County, Minnesota.

Leonard Rosenthal, Montreal, Quebec, Canada

B.Sc. '49, McGill University. Major: Biophysics. Minor: Biostatistics. Thesis: A Study of the Effects of X-ray Quality on Bone Growth and Bone Damage.

Frank Sauer, Toronto, Ontario, Canada

D.V.M. '51, Ontario Veterinary College. Major: Pathology. Minor: Veterinary Medicine. Thesis: A Study of the Pathology Caused by the Feeding of Trichloroethylene-Extracted Soybean Oil Meal to Guinea Pigs.

C. S. Venkataram, Bangalore, India
B.Sc. '46, Presidency College; M.S. '49, Madras University. Field of Concentration: Plant Pathology.

Carol Helen Webb, St. Louis Park
B.S. '23, University of Minnesota. Field of Concentration: Botany.

Henry Woodrow Wilson, Bismarck, N.D.

B.A. '40, Jamestown College. Field of Concentration: Zoology.

Master of Science in Aeronautical Engineering

Alfred Robert Deptula, Cleveland, Ohio

B.S.E. '43, Fenn College. Field of Concentration: Aeronautical Engineering

Master of Science in Civil Engineering

Hans Cora Blauwkuip, Amsterdam, The Netherlands

Graduate '52, Delft Institute of Technology. Major: Civil Engineering (Hydromechanics). Minor: Civil Engineering (Soils Mechanics). Thesis: The Effect of Sills upon the Water-surface Elevation.

Master of Science in Dental Surgery

George Charles Gamboa, Temple City

D.D.S. '46, College of Physicians and Surgeons. Major: Dental Surgery. Minor: Anatomy. Thesis: A Study of Peripheral Giant Cell Tumors of the Gingivae: Clinical and Pathologic.

Master of Science in Dentistry

Robert Earl Sausen, St. Paul

D.D.S. '51, University of Minnesota. Major: Dentistry. Minor: Physiological Chemistry. Thesis: Electrophoresis in Dentine with Radioactive Isotope Calcium 45.

Master of Science in Dermatology and Syphilology

Harold Otto Perry, Rochester

B.S. '44, M.D. '46, University of Minnesota. Major: Dermatology and Syphilology. Minor: Histopathology. Thesis: Laboratory Studies on Endomycin with Special Reference to Its Antifungal Effect Against *Candida Albicans*.

Millard Andrew Troxell, Minneapolis

Met.E. '39, University of Minnesota; M.D. '44, State University of Iowa. Major: Dermatology and Syphilology. Minor: Pathology. Thesis: Melanoplakia.

Master of Science in Electrical Engineering

Viktor Met, Vienna, Austria

Graduate '52, University of Technology in Vienna. Major: Electrical Engineering. Minor: Mathematics and Mechanics. Thesis: Development of an Electrolytic Tank for Network Problems.

Master of Science in Mechanical Engineering

Dilip Kumar Goswami, Sibsagar,
Assam, India

B.Sc. in Ag.Eng. '47, University of Allahabad; M.S. in Ag.Eng. '52, University of Minnesota. Major: Mechanical Engineering (Internal Combustion Engines). Minor: Mechanical Engineering (Machine Design). Thesis: A Study of Mixture Variation from Cycle to Cycle in a Four Stroke Gasoline Engine.

Eino Kenneth Latvala, Sebeka

B.Mech.E. '48, University of Minnesota. Field of Concentration: Mechanical Engineering.

Richard Keith Nelson, Minneapolis

B.S. with distinction '52, University of Minnesota. Field of Concentration: Mechanical Engineering.

Erwin Wedel, San Jose, Costa Rica

B.S. in Ch.E. '50, B.S. in Mech.E. '51, Tulane University. Field of Concentration: Mechanical Engineering.

Master of Science in Medicine

James K. McCorkle, St. Petersburg,
Fla.

B.A. '34, University of California; M.D., C.M. '40, McGill University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Myasthenia Gravis and Exophthalmic Goiter.

Master of Science in Orthopedic Surgery

Harry Walter Stuermer, Minneapolis
B.A. '42, B.S. '43, M.D. '44, University of
Illinois. Major: Orthopedic Surgery. Minors:
Anatomy and Pathology. Thesis: Study of Leg
Length Measuring.

Master of Science in Radiology

Norman Zheutlin, Pelham, N.Y.
M.D. '48, Albany Medical College. Major:
Radiology. Minor: Pathology. Thesis: The
Effect of Barium in the Peritoneal Cavity Fol-
lowing Rupture of the Colon.

Master of Social Work

Dolores Bernath, St. Paul
B.A. '51, University of Minnesota. Field of
Concentration: Social Work.

Paul Harold Engstrom, Minneapolis
B.A. '38, University of Minnesota. Field of
Concentration: Social Work.

Margaret Winnifred Fannin, Keokuk,
Iowa
B.A. '33, Culver-Stockton College. Field of
Concentration: Social Work.

Gretchen Hilgeman, Minneapolis
B.A. '38, Jamestown College. Field of Con-
centration: Social Work.

Colina Levina Jordan, Utrecht, The
Netherlands
Graduate '50, School of Social Work in Am-
sterdam. Field of Concentration: Social Work.

Wilmette Anne Rachac, St. Paul
B.A. '50, Hamline University. Field of Con-
centration: Social Work.

Doctor of Philosophy

Mohamed Bahij Al-Hakim, Aleppo,
Syria
Diplome d'Ingenieur Civil '44, Ecole Fran-
caise de Ingenieurs (Syria); M.S. in C.E. '47,
University of Minnesota. Major: Civil Engi-
neering. Minors: Mathematics and Organic
Chemistry. Thesis: Conglomeration and Dis-
persion Effects of Ultrasonic Vibrations as
Applied to Some Sanitary Engineering Prob-
lems. Major Adviser: Prof. G. J. Schroepfer.

Stuart Robinson Andrews, Albuquer-
que, N.M.
B.S. '33, M.F. '35, Yale University. Major:
Plant Pathology. Minor: Forestry. Thesis:
Western Red Rot of Ponderosa Pine. Major
Adviser: Prof. C. M. Christensen.

Hector Roque Anton, Los Angeles,
Calif.
B.S. with honors '42, M.B.A. '47, University
of California at Los Angeles. Major: Eco-
nomics. Minor: Law. Thesis: A Critical
Evaluation of Techniques of Analysis of the
Flow of Business Funds. Major Adviser: Prof.
E. A. Heilman.

Robert Martin Appel, Minneapolis
B.S. in Pharm. '50, University of Minnesota.
Major: Pharmaceutical Chemistry. Minors:
Pharmacology and Organic Chemistry. Thesis:
A Phytochemical Investigation of Digitalis
Ferruginea. Major Adviser: Prof. Ole Gisvold.

Robert Frederick Biehler, Summit,
N.J.
B.A. magna cum laude '50, Syracuse Univer-
sity; M.A. '51, University of Minnesota.
Major: Child Welfare. Minor: Psychology.
Thesis: An Analysis of Free Painting Pro-
cedures as Used with Preschool Children.
Major Adviser: Prof. D. B. Harris.

Robert LeRoy Boblitt, Springfield,
Ohio
B.S. in Pharm. '48, Ohio Northern University.
Major: Pharmaceutical Chemistry. Minor: Or-
ganic Chemistry. Thesis: The Synthesis of
Some Esters of Some New N-Alkyl p-Carboxy-
benzamidines. Major Adviser: Prof Ole Gis-
vold.

Daniel Vance Bryan, Minneapolis

B.A. '40, M.A. '42, State University of Iowa. Major: English. Minor: Philosophy. Thesis: Samuel Butler: Creative Evolution in Literature. Major Adviser: Prof. W. V. O'Connor.

Carl Raymond Carlson, Minneapolis

B.S. magna cum laude '42, Hamline University; M.A. '49, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Study of the Relative Effectiveness of Lecture and Directed Discussion Methods of Teaching Tests and Measurements to Prospective Air Force Instructors. Major Adviser: Prof. C. W. Boardman.

Samuel Owen Cornwell, Minneapolis

B.S. '44, M.S. '48, University of North Carolina. Major: Anatomy. Minor: Pathology. Thesis: Studies on Reticuloendothelial Function with Colloidal Gold. Major Adviser: Prof. W. L. Williams.

Stanley Lawrence Curtis, Truro, Nova Scotia, Canada

B.S.A. '45, University of Toronto; M.S. '51, University of Massachusetts. Major: Animal Husbandry. Minor: Plant Genetics. Thesis: The Comparative Value of Selecting Swine Before and After Progeny Testing. Major Adviser: Prof. J. N. Cummings.

Forrest Leroy Erlandson, Minneapolis

B.A. cum laude '48, M.A. '52, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Socio-Economic Factors Related to Vocational Interests as Measured by the Strong Vocational Interest Blank for Men. Major Adviser: Prof. R. F. Berdic.

Henry Edward Fritz, Superior, Wis.

B.S. '47, M.S. '47, University of Illinois. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Dienone-Phenol Rearrangement. Major Adviser: Prof. S. W. Fenton.

Thomas Frank Gossett, Dallas, Texas

B.A. '46, M.A. '48, Southern Methodist University. Major: American Studies. Thesis: The Idea of Anglo-Saxon Superiority in American Thought, 1865-1915. Major Adviser: Prof. M. Q. Sibley.

David Henry Gregg, Minneapolis

B.S. '49, University of Minnesota. Major: Pharmaceutical Chemistry. Minors: Pharmacology and Organic Chemistry. Thesis: A Preliminary Phytochemical Investigation of *Digitalis Orientalis*. Major Adviser: Prof. Ole Gisvold.

Mearl Raymond Guthrie, Jr., Cincinnati, Ohio

B.S. '48, M.A. '49, Ball State Teachers College. Major: Education. Minor: Educational Psychology. Thesis: The Measurement of Personal Factors Related to Success of Office Workers. Major Adviser: Prof. R. G. Price.

William Robert Hasek, Pittsburgh, Pa.

B.S. '49, Carnegie Institute of Technology. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Part I: Reactions of Nitroolefins with Diazocompounds; Part II: Reactions of Benzo-1, 4-Dithiadene. Major Adviser: Prof. W. E. Parham.

Eldon Glen Hill, Loveland, Colo.

B.S. '40, Colorado State College of Agriculture and Mechanic Arts; M.S. '50, University of Minnesota. Major: Poultry Husbandry. Minor: Agricultural Biochemistry. Thesis: Purified Diet and Unidentified Growth Factor Studies in the Nutrition of the Chick. Major Adviser: Prof. H. J. Sloan.

Leroy Henry Holt, Kasson

B.S. '42, Iowa State College; M.S. '48, South Dakota State College of Agriculture and Mechanic Arts. Major: Animal Husbandry. Minor: Plant Genetics. Thesis: An Appraisal of Crossbreeding in Farm Animals. Major Adviser: Prof. L. M. Winters.

Warren Edward Ibele, Minneapolis

B.M.E. '44, Tulane University; M.S. in M.E. '47, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: An Extension of the Law of Corresponding States. Major Adviser: Prof. N. A. Hall.

Jack Indritz, Minneapolis

M.S. '40, University of Chicago. Major: Mathematics. Minor: Physics. Thesis: Applications of the Rayleigh-Ritz Method to the Solutions of Partial Differential Equations. Major Adviser: Prof. S. E. Warschawski.

Dennis James Kane, St. Paul

B.A. '40, St. Bonaventure College. Major: Anatomy. Minor: Pathology. Thesis: Histopathology of the Renal Lesion in the Generalized Schwartzman Phenomenon. Major Adviser: Prof. W. L. Williams.

Hsin-Kuan Liu, Honan, China

B.S. '43, National Northwestern College of Engineering; M.S. '49, State University of Iowa. Major: Civil Engineering. Minor: Mathematics and Mechanics. Thesis: Ripple Formation and Its Relation to Bed-Load Movement. Major Adviser: Prof. L. G. Straub.

William Brydon Fraser Mackay, Winnipeg, Manitoba, Canada

B.E.E. '38, University of Manitoba; B.Met.E. '40, M.S. '47, University of Minnesota. Major: Metallography. Minor: Industrial Engineering. Thesis: High Strength Wrought Aluminum Alloys Based upon the Ternary System Aluminum-Zinc-Magnesium. Major Adviser: Prof. R. L. Dowdell.

Ernest Leland McCollum, Denver, Colo.

B.S. with high distinction '47, M.A. '49, Arizona State College. Major: Psychology. Minor: Education. Thesis: A Study of the Vocational Interest Profiles of USAF Personnel Officers With and Without Formal Personnel Training. Major Adviser: Prof. D. G. Paterson.

Gabriel Georges Nahas, Toulouse, France

B.A. '37, M.D. '44, University of Toulouse; M.S. '49, University of Rochester. Major: Physiology. Minor: Experimental Physiology. Thesis: Some Studies on the Effects of Hypoxia upon the Respiration and Circulation of Non-Narcotized Dogs. Major Adviser: Dr. M. B. Visscher.

Kaworu Carl Nomura, Minneapolis

B.Phys. with distinction '48, M.S., '49, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Influence of Excess Oxygen on the Secondary Electron Emitting Properties of MgO Single Crystals. Major Adviser: Prof. W. G. Shepherd.

Antonio Hadad Obaid, Northfield

B.A. '41, Carleton College; M.A. '42, University of Nebraska. Major: Spanish. Minor: French. Thesis: El Quijote en los Episodios Nacionales de Pérez Galdós. Major Adviser: Prof. W. T. Pattison.

Otto Paul Charles Press, Minneapolis

B. J. '48, University of Missouri; M.A. '51, University of Minnesota. Major: Political Science. Minor: Sociology. Thesis: Administration Losses in Midterm Elections. Major Advisers: Profs. A. N. Christensen and Herbert McClosky.

Wilmoth Christian Price, Crosby

B.S. '50, St. Cloud State Teachers College; M.A. '51, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Status of Consumer Education Courses in Colleges and Universities. Major Adviser: Prof. R. G. Price.

David Lawson Russell, Truro, Mass.

B.A. with honors '42, Wesleyan University. Major: Psychology. Minor: Educational Psychology. Thesis: A Comparison of Rating, Test, and Sociometric Methods of Personality Measurement. Major Adviser: Prof. J. G. Darley.

Kenneth Francis Schenkel, Jacksonville, Fla.

B.S. '47, University of Florida; M.A. '50, The American University. Major: Psychology. Minor: Economics. Thesis: Tabulator Operator Selection, Emphasizing Relationships Among Aptitudes, Interests, Proficiency, Job, and Vocational-Satisfaction. Major Adviser: Prof. D. G. Paterson.

Harlie Lawrence Smith, Jr., Indianapolis, Ind.

B.A. '48, Westminster College; M.A. '51, University of Minnesota. Major: Linguistics and Comparative Philology. Minor: Semitics. Thesis: The Phonology of Arabic Loan-Words in Old Spanish. Major Adviser: Prof. T. B. Irving.

Kalmer Elief Stordahl, McIntosh

B.S. '47, Bemidji State Teachers College; M.A. '50, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Stability of Strong Vocational Interest Blank Patterns for Pre-college Males. Major Adviser: Prof. W. E. Dugan.

Walter Eugene Strimling, Minneapolis

B.Phys. with high distinction '45, M.A. '45, University of Minnesota. Major: Mathematics. Minors: Chemistry and Electrical Engineering. Thesis: Solution of a Linear, Second Order, Partial Differential Equation in Three Variables by Weiner Integration. Major Adviser: Prof. R. H. Cameron.

Donald Wayne Sydow, Fairmont

B.S. '42, Hamline University. Major: Psychology. Minor: Neuropsychiatry. Thesis: A Psychometric Differentiation Between Functional Psychotics and Non-Psychotics with Organic Brain Damage. Major Adviser: Prof. William Schofield.

Verne Howard Townley, Sioux City, Iowa

B.S. '48, Iowa State College; M.S. '50, University of Minnesota. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: The Use of a Venturi Atomizer in Spray Drier Design. Major Adviser: Prof. S. T. Coulter.

Robert Edwin Zink, Minneapolis

B.A. magna cum laude '49, M.A. '51, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Direct Unions of Measure Spaces. Major Adviser: Prof. B. R. Gelbaum.

CAPS AND GOWNS

AN EXPLANATION

In the medieval city, clothing not unlike that worn by those participating in this commencement was common. The modern academic costume has evolved from the dress of the medieval guilds and their early religious orders.

Today, everyone with a college or university degree may wear the black academic gown. Hoods, which are omitted by seniors who are candidates for degrees, are worn by graduates. At the University of Minnesota, the lining of the hood has a maroon chevron on an old gold ground to represent the University colors. A University faculty member who holds a degree from another college or university wears the colors of his own alma mater.

Distinctions among sleeves indicate the type of degree held by the wearer. A long, pointed sleeve indicates a Bachelor's degree, while a long, closed sleeve with a slit near the upper part of the arm designates a Master's degree. A round, open sleeve marks a Doctor's degree.

The velvet edging on hoods is the color which stands for the field of study of the gown's wearer. It may be white for Arts and Letters, gold-yellow for Science, maize for Agriculture, Forestry, and Home Economics, grey for Veterinary Medicine, or light blue for Education. Orange denotes Technology; dark blue, Philosophy; purple, Law; green, Medicine; and pink, Music. Public Health is shown by salmon pink edging, Dentistry by lilac, Pharmacy by olive, and Commerce and Accounting by drab.

The Doctor's costume also has velvet trimming on the rest of the gown, including crossbars on the sleeves. The trimming may either be black or may match the color of the hood edging.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidate is an honor student.

Caps, or mortarboards, too, have significance. The President of the University is the only one who may wear a velvet cap and a gold tassel.

For the Master's and Doctor's degrees the tassels are always black, but candidates for the Bachelor's degree at this commencement wear tassels which indicate their school or college 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 of the Institute of Agriculture	maize
College of Education.....	light blue
School of Business Administration.....	drab
Pharmacy	olive
Law	purple
College of Medical Sciences.....	green
Graduate School	black



UNIVERSITY OF MINNESOTA

Senior Reception

August 1953

- The members of the Senior Class, their relatives and friends are invited by President and Mrs. Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held on the terrace of the Coffman Memorial Union.
- Assisting in the Reception are members of the All-University Congress; Grey Friars and Iron Wedge, senior honorary organizations for men; Mortar Board, senior honorary organization for women; Chimes, junior honorary organization for women; and Phoenix and Silver Spur, junior honorary organizations for men. These students have maroon and gold identifications.
- Among those in the receiving line will be President and Mrs. J. L. Morrill, Dean Thomas A. H. Teeter, Summer Session, and Mrs. Teeter, and Miss June Carlson, Senior Coordinator, All-University Congress.
- All guests are urged to register at the appropriate tables presided over by members of Phoenix and Silver Spur. The signed pages will be bound and preserved by the class of 1953.
- Punch will be served. The young ladies presiding at the punch tables are members of Chimes.



THE
UNIVERSITY OF MINNESOTA

Announces Its

December Commencement

1953

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, DECEMBER 17

AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, 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 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 E. E. Novak, New Prague

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.

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota has this year celebrated its one hundred and second 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 doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—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 112,500 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 nearly 19,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, 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, and recreation and health consultants give effective aid and 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 its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, poliomyelitis, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, supersonics and transonics, to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the Minneapolis Symphony, the University Artists Course, radio station KUOM, the University Theatre, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly 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 to be constructed and for the great Mayo Memorial building to be erected over the coming months. Through the American Legion and auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart diseases.

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 University Alumni Association and the Greater University Fund and to return as frequently as possible to visit us here at the University.

Order of Events

Maloney, Acting Assistant Dean, College of Medical Sciences; Mr. Blake Stern, Assistant Professor of Music; Dr. Richard K. Gaumnitz, Assistant Dean of the School of Business Administration, Marshal.

PRESENTATION OF COLORS: As the color guard, made up of University Army ROTC and Air ROTC Cadets, and Naval ROTC Midshipmen, enters the Auditorium, the audience will rise.

THE NATIONAL ANTHEM (first stanza only): The entire audience and Mr. Blake Stern, Assistant Professor of Music, soloist.

INVOCATION: The Reverend Lambert Mehl, Pastor and Director, Lutheran Student Foundation at the University.

SPEAKING FOR THE UNIVERSITY: President James Lewis Morrill, LL.D., President of the University.

COMMENCEMENT ADDRESS: "Television—Extension School of a Democracy," Mr. J. L. Van Volkenburg, President, CBS Television, New York, New York.

CONFERRING OF COMMISSIONS: Dr. Malcolm M. Willey, Vice President, Academic Administration, will introduce Lieutenant Colonel Jerome K. Hostetler, USA, Assistant Professor of Military Science and Tactics; Lieutenant Colonel Waite W. Worden, USMC, Associate Professor of Naval Science; Lieutenant Colonel Clarke W. Henkle, USAF, Assistant Professor of Air Science and Tactics, who will present the candidates for commissions in their respective branches of the Armed Services. The commissions will be presented by President Morrill; the oath of office will be administered by Lieutenant Colonel Worden.

CONFERRING OF DEGREES: Vice President Willey will introduce the several deans or their representatives who will present the candidates for certificates and degrees in their respective colleges. These, in order of their introduction are: Assistant Dean Huntington Miller, LL.B., University Extension; Dean Horace T. Morse, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Assistant Dean Austin A. Dowell, Ph.D., College of Agriculture, Forestry, and Home Economics, Institute of Agriculture; Associate Dean Marcia Edwards, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Acting Assistant Dean William F. Maloney, M.D., College of Medical Sciences; Dean Theodore C. Blegen, Ph.D., Dean of the Graduate School. All degrees will be conferred by President Morrill.

PRESENTATION OF DIPLOMAS: With Dean of Students E. G. Williamson, Ph.D., presiding, all members of the December graduating class will pass across the stage to receive their certificates and diplomas.

Order of Events

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

“HAIL! MINNESOTA,” the University’s alma mater song: The audience and Mr. Blake Stern, 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. Arthur B. Jennings, University Organist

Psalm XIX - - - - - *Marcello*

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

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, Coast Artillery Corps

Quentin T. Quirk, St. Paul

Second Lieutenant, Transportation Corps

Robert K. Langford, St. Paul

Donald H. Long, Milwaukee, Wis.

DEPARTMENT OF NAVAL SCIENCE

Ensign, SC, USN

Lane Arthur Kispert, Nerstrand

DEPARTMENT OF AIR SCIENCE AND TACTICS

Second Lieutenant, USAF Reserve

James C. Andersen, Minneapolis
James C. Borgstrom, St. Paul
George L. Glotzbach, St. Paul
Duane W. Grande, Ulen

Allen R. Oppegard, St. Paul
Gayle N. Schonning, Farmington
Robert L. Van Meter, Owatonna
Charles S. Wilson, Minneapolis

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 Certificate

James F. Canniff, St. Paul
Richard C. Hessburg, Minneapolis

Harold R. Hubert, St. Paul

Engineering Certificate

Robert R. Braeden, Minneapolis

Industrial Engineering Certificate

Donald A. Peterson, Minneapolis

Louis Finley Keller, Jr., St. Paul

GENERAL COLLEGE

Associate in Arts

Jane Isabelle Batdorf, St. Paul
Russell Irving Berge, Minneapolis
Joan Lappen Bowen, Minneapolis
Jack Clair Buck, St. Paul
Margaret Anne Cauldwell, St. Paul
Grant Reynolds Christenson, Minneapolis
Bergit Joanne Clemmer, Minneapolis
Gerald Anthony Coffel, Columbia Heights
James Prestidge Corriveau, Minneapolis
Barbara Lynn Corwine, Minneapolis
Richard James Daly, Minneapolis
Thomas Martin Decker, St. Paul
John Peter Devins, Minneapolis
Arnold Norman Endresen, Mound
Gloria Mae Feldman, St. Paul
John Nelson Hastings, Minneapolis

Raymond Louis Hinze, Spring Valley
Richard Clifford Howard, St. Paul
Suzanne Alice Jamgotch, Minneapolis
Albert Jerome Kamps, Minneapolis
Frederick Joseph Kardell, St. Louis Park
Bette Ann Lowe, South St. Paul
Ronald I. Miller, St. Paul
John William Morgan, Jr., St. Paul
Sheila Marie Nelson, Minneapolis
George Christ Pamel, St. Paul
Richard Ames Proulx, St. Paul
Richard Victor Punchard, Minneapolis
John Hoeller Stocking, Minneapolis
George Thomas Sutcliffe, Minneapolis
Rolland Gordon Thompson, Wayzata
Charles Louis Traxler, Le Center
Elizabeth Von der Weyer, St. Paul
Richard Elmer Wangen, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

William Quinn Burrs, St. Paul
Lorraine Theodora Dahlgren,
Shakopee
Roslyn Joan Fryer, Minneapolis
Richard Jerome Gapinski, Foley
William Sheakley Graves, Duluth
Jean Ann Hinman, Minneapolis
Arlene Horwitz, St. Paul
Phyllis Marilyn Keller, Minneapolis

Charlene Belle Lenske, Minneapolis
Muriel Joyce Levin, Minneapolis
Earl Owen Lindquist, Minneapolis
Agnes Victoria Moen, Minneapolis
Harmony Ethelyn Rivkin, Minne-
apolis
Richard Leo Schroer, St. Paul
Mary Ellen H. Schuck, Minneapolis
Gerald Eugene Stallman, Minneapolis

Bachelor of Arts

James Curtiss Andersen, Minneapolis
Marilyn Coleman Anderson, St. Paul
Otto Theodore Bang, Jr., Mayville,
N.D.

William Adolph Bartsch, St. Paul
Gerald Bernard Berman, Minneapolis
James Theodore Bjornson, Minne-
apolis

Dona Elizabeth Angeline Boor, Min-
neapolis

Paul Robert Christy, Wayzata
Nancy Deal Curriden, Minneapolis,
MAGNA CUM LAUDE

Anthony Angelo Danna, St. Paul
Roy Edwin Dean, St. Peter

William Merritt Drum, St. Paul
James John Dzandzara, Minneapolis

Eric Alexander Erickson, Jr., Minne-
apolis

Madge Waswo Olson Ertel, Jackson,
MAGNA CUM LAUDE

George Laurence Fischer, Jr., St. Paul
Eugene Urban Frey, St. Paul

Fred G. Gordon, Minneapolis
Stephen Graves Granger, St. Paul,
CUM LAUDE

Grady Etheredge Graves, A.A., Hance-
ville, Ala.

Ann Marie Gronvold, Mandan, N.D.
Jerry A. Guffan, Los Angeles, Calif.,
CUM LAUDE

Richard John Haggstrom, Richville
Marguerite Kathleen Hamm, Hastings

Richard Emmet Humphrey, Minne-
apolis

Leonard William Johnson, Minne-
apolis

Jerry Yale Kahn, Minneapolis
Lambert Charles King, Duluth

Warren John Kliever, Mountain Lake,
MAGNA CUM LAUDE

Wayne Fred Krantz, Minneapolis,
CUM LAUDE

Leo Daniel Kuechenmeister, St. Paul
Lonnie Louis Lasman, St. Paul

Walter O. Lower, Jr., Moose Lake
Arturo Donaldlo Melo, Panama City,
Panama

Joseph Rollin Miller, Jr., Minneapolis,
CUM LAUDE

Walter Peter Miller, Dickinson, N.D.,
MAGNA CUM LAUDE

Barbara Schell Fritsche Olmanson,
New Ulm

Allen Richard Opegard, St. Paul
Thomas Fowler Overend, Minneapolis

Harue Oyama, Tokyo, Japan
John Peter Pahl, Minneapolis

John Wilton Pulver, Duluth
Hugh Dyer Putnam, Carrington, N.D.

Quentin Thomas Quirk, St. Paul
Frederick Alexander Ramlall, Berbice,
British Guiana

Robert Upton Reid, Minneapolis,
CUM LAUDE

Margareta Rempel, Minneapolis, CUM
LAUDE

Edward Joseph Richer, Mason City,
Iowa, CUM LAUDE

Paul Herman Richter, Robbinsdale

Nancy James Rosso, Janesville, Wis.,
CUM LAUDE
Donald Cochran Royal, Minneapolis,
CUM LAUDE
Harold Allen Schofield, Minneapolis,
CUM LAUDE
Gaylon Norval Schonning, Farmington
Bernard George Schwartzbauer,
St. Paul
Kenneth Hustad Shore, Worthington
Milton Sidley, St. Paul
Elaine Hoff Sorensen, Minneapolis,
SUMMA CUM LAUDE
Jane Marianne Sundgaard, St. Paul,
MAGNA CUM LAUDE

James Otto Tillman, Minneapolis
Haig Karekin Tufenk, A.A., St. Paul
Robert Lee Van Meter, Owatonna
Richard John Wagner, New Ulm,
CUM LAUDE
Robert Gerard Warnken, Richfield
Leonard Seamer Warren, St. Paul
Gordon Franklin White, Minneapolis
Gene Paul Wicklund, Hopkins
James Raymond Wilcox, St. Paul
James Edmund Williams, Minneapolis
Charles Stuart Wilson, A.L.A., Minneapolis
Leo Herman Wolf, Hopkins
John Phillip Woltman, Rochester
Roger Lun Woo, Minneapolis

Bachelor of Science in Library Science

Merilyn Ann Culver, B.A., St. Louis
Park

Paul Volodymyr Hrycak, M.A., Minneapolis

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Gerald Edward Anderson, Eveleth,
WITH DISTINCTION

Denis Robert Brasket, Tracy, WITH
DISTINCTION

Bachelor of Architecture

Robert Traynham Coles, B.A., Buffalo,
N.Y.
Harry Derderian, New York, N.Y.

Duane Wallace Grande, Ulen, WITH
DISTINCTION
Orville Raymond Nelson, Minneapolis
Theodore H. Virnig II, Minneapolis

Bachelor of Chemical Engineering

Peter George Andrews, Duluth
Kenneth Wilbur Olson, Minneapolis
Albert Lenard Pooler, St. Louis Park

Festus Patrick Tierney, Jr., Minneapolis

Bachelor of Chemistry

Warren Fisher Davis, B.A., Minneapolis

Bachelor of Civil Engineering

John Westlake Ekman, Minneapolis

Willard Fredrick Frantz, Jr., St. Paul

Bachelor of Electrical Engineering

Richard Todd Martin, Minneapolis

Bachelor of Industrial Engineering

Richard Raymond Carlson, Nashwauk
William John Jaksa, B.B.A., Virginia

Rodney Leonard Oberg, B.B.A., St. Paul

Bachelor of Mechanical Engineering

Richard Bryce Archie, Hopkins
Curtis Leon Austin, B.S., M.A.,
Duluth
Lowell David Beaverson, Minneapolis
James Clifford Borgstrom, St. Paul,
WITH DISTINCTION
Maynard Zacharias Boyce, Minne-
apolis

Richard Joseph Coleman, Rochester
Robert Anthony Hill, Shakopee
Richard Glen Lundgren, St. Paul
Melvin Charles Wetterlin, St. Paul
Felix Hans Wolf, Minneapolis
James Arthur Zdrzil, Hopkins

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

Bachelor of Science

George Keith Battles, Hutchinson,
Agriculture
Karilyn Joanne Bom, Carver, Home
Economics
William Herbert Carlson, Minneap-
olis, Fishery and Wildlife Manage-
ment
Richard R. Dedolph, St. Paul, Science
Specialization, WITH DISTINCTION
Russell Warren Fallstad, Elgin, Ill.,
Fishery and Wildlife Management
Allan Stephen Haff, St. Paul, Forestry
Dean Pickett Hartle, Owatonna, Agri-
culture
Ann Brooke Holt, Minneapolis, Agri-
culture
Joan Frances Horton, Minneapolis,
Home Economics
Joseph Erwin Jenc, Benson, Agricul-
ture

Harriet Shirley Kahn, Minneapolis,
Home Economics
Charles Dean Korinta, Detroit Lakes,
Agriculture
Gordon Thomas La Flash, Kettle
River, Agriculture
Richard Charles Larson, St. Peter,
Agriculture
James Iver Mortensen, St. Paul,
Forestry
Lyle Lester Nelsen, Farmington,
Agriculture
John Frederick Nepp, Albert Lea,
Forestry
Thomas Howard Peterson, St. Paul,
Agriculture
Irene Deloris Skoglund, Parkers
Prairie, Home Economics
Roger Eldon Sorenson, Louisburg,
Agriculture

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

Bachelor of Science

Beverly Jean Adolphson, Grand Rapids, Home Economics Education	Elton Alois Kuderer, Wilton, Wis., Agricultural Education
Robert Warren Anderson, St. Paul, Agricultural Education	Elizabeth Ann McHardy, Hibbing, Home Economics Education
Wayne Virgil Broecker, Lindstrom, Agricultural Education	John Dennis Nalewaja, Browerville, Agricultural Education, WITH DISTINCTION
Paul Miller Day, Northfield, Agricultural Education	Willard Dale Philipson, Sleepy Eye, Agricultural Education
Albert Harlan Ellingboe, Lakeville, Agricultural Education	John F. Polley, Fosston, Agricultural Education
Elvera Beverly Ellingson, Minneapolis, Home Economics Education	Arnold David Regier, Mountain Lake, Agricultural Education, WITH DISTINCTION
Esko Lee Eskola, Angora, Agricultural Education	Nola-June Stangler, Coleraine, Home Economics Education
Bertram Hiram Fuller, St. Charles, Agricultural Education	George Richard Tesch, Watertown, Agricultural Education
James P. Gillach, Aurora, Agricultural Education	
Jeanne Delores Knutson, Graceton, Home Economics Education	

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

Bachelor of Agricultural Business Administration

Roland Lawrence Anderson, Verndale

COLLEGE OF EDUCATION

Bachelor of Science

Yvonne Marie Amlie, Minneapolis, WITH DISTINCTION	Thomas Ripley Buran, Roseau
Luella Josephine Anderson, Zimmerman	Elaine Callen, A.A., Twin Falls, Idaho, WITH DISTINCTION
Elaine Marian Beske, Minnesota Lake, WITH HIGH DISTINCTION*	Barbara Joyce Eisenbarth, Algona, Iowa*

* Nursing Education Curriculum.

*Jolanda Lynn Folson, Bemidji, WITH
DISTINCTION*

Susan Ann Ford, Milwaukee, Wis.

Bonnie Elizabeth Goodwin, Flint,
Mich.*

Roger Alan Hansen, Mound

John Edwin Hawkinson, Jr., A.A.,
Pine City

Emmett Anderson Heiberg, Fergus
Falls

Harriet Warner Hupp, B.A., Minne-
apolis

Marion Elizabeth Johnson, Balaton*

Theodore William Kotsonas, Minne-
apolis

Joyce Eloise Kurth, Blue Earth

Jemima Jean Madsen-Hill, Minne-
apolis

Mary Ann Nelson, Hutchinson
Geraldine A. Phelps Pardee, A.A.,
Pasadena, Calif.*

Fern Geraldine Peterson, R.N.,
Cambridge*

Elmina Palon Price, Sturgeon Lake*

Sue Evelyn Schwartz, St. Paul

Owen Barnett Shirley, A.A., Colon,
Panama

Raymond Harold Slater, St. Paul

Audrey Ann Swedberg, Minneapolis,
WITH DISTINCTION

Richard Franklin Weatherman, B.S.,
Minneapolis

Mary Claire Weber, Mankato

Patricia Jean Williams, Pipestone

Master of Education

Adeline Trenna Bell, B.S., El Reno,
Okla.

Gaius Edward Harmon, Jr., B.S.,
St. Paul

Arden John Johnson, A.L.A., B.S.,
Vernon Center

Rachel Smith, B.S., Madison, S.D.

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Gordon Magnus Anderson, St. Paul

Robert Merton Blatt, Clayton, Mo.

James Clifford Borgstrom, St. Paul

Russell Francis Boyd, A.A., Minne-
apolis

*James Harvey Clark, North St. Paul,
WITH DISTINCTION*

*William Donald Cummings, Roches-
ter, WITH DISTINCTION*

Richard Orville Ellsworth, St. Paul

Richard Curtis Eye, Minneapolis

Robert Austin Gillespie, St. Paul

Glenwood William Gilson II,
Wayzata

George Linus Glotzbach, St. Paul

Leonard W. Grannes, B.S.L., LL.B.,
Minneapolis

Sylvester Jolly Haycraft, Wayzata

Mervin Duane Henning, Orlando, Fla.

Eugene Wallace Hogle, A.L.A.,
Minneapolis

James Fredrick Horning, Minneapolis

Charles Eldo Johnson, St. Paul

*Kermit Lars Kalleberg, Minneapolis,
WITH DISTINCTION*

John William Lacina, Jr., Omaha,
Neb.

Robert Knebel Langford, St. Paul

John Thomas Lundegard, Minneapolis

Lovell Hamilton May, Jr., St. Paul

Dean Berlin McKinney, Minneapolis

*Gordon Gerdes Miller, Minneapolis,
WITH DISTINCTION*

Robert Lawrence Misgen, Faribault

Lloyd Warren Ostebee, Minneapolis

Robert Louis Palmer, Minneapolis

Melvin Peter Pederson, Jr., Echo

* Nursing Education Curriculum.

Willard Carl Peterson, Jr., Minneapolis
Thomas Scott Quinn, St. Paul
Winthrop Lyon Saville, Alameda, Calif.
John Edward Schwarz, B.A., Minneapolis
Elliott Martin Sellner, Faribault

Robert Clinton Sullivan, Minneapolis
Myrtle Elizabeth Swanson, A.L.A., Paynesville
Edward Craig Von Sien, Minneapolis
Kenneth Bror Wahlborg, South St. Paul
Ralph John Willard, Minneapolis
Leland John Windahl, Minneapolis

Bachelor of Science in Economics

Jean W. Foster, Minneapolis

LAW SCHOOL

Bachelor of Science in Law

Paul Roger Buhl, B.B.A., St. James*
David Don Christenson, Winona
Beverly Corinne Durkee, B.A., Minneapolis

Alf Robert Lee, B.A., St. Paul*
Douglas Nelmar Odgaard, B.B.A., Minneapolis
Roger Alan Peterson, Minneapolis**

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Rosemary Benster, North St. Paul, Medical Technology***
Irene Louise Bryant, Maple Plain, Public Health Nursing
Melba Earlene Carson, A.A., Chariton, Iowa, Public Health Nursing, WITH DISTINCTION
Arlene Florence Coleman, G.N., R.N., Stanchfield, Public Health Nursing
Alvin James Dobis, Minneapolis, Medical Technology***
Alice Marna Fulton, Minneapolis, Occupational Therapy
Theresa Mary Kern, Faribault, Public Health Nursing

Susan Carolynne Kerseg, Ogden Dunes, Ind., Occupational Therapy
Dona Mae Laker, Minneapolis, Medical Technology***
Jean Lewis, Delhi, N.Y., Public Health Nursing
Margaret Gordon Lobner, Boulder Creek, Calif., Public Health Nursing, WITH HIGH DISTINCTION
Paul Fredrick Noble, B.A., Backus, Medical Technology***
Marion Elizabeth Weden, Costa Mesa, Calif., Public Health Nursing
Elizabeth Virginia Wimpenny, Philadelphia, Pa., Public Health Nursing

* Degree conferred as of August 20, 1953.

** Degree conferred as of June 13, 1953.

*** These degrees are conferred subject to satisfactory completion of required practical work prior to March 18, 1954.

GRADUATE SCHOOL

Master of Arts

William Hugh Apitz, Rockford, Ill.

B.A. '52, Monmouth College. Field of Concentration: History.

Selwyn William Becker, Salem, Mass.

B.A. '52, University of Rochester. Field of Concentration: Psychology.

Goberdhan Bhagat, Karharia, India

B.A. '48, Teh Narayan Jubilee College; M.A. '50, University of Patna. Field of Concentration: Economics.

Charmion Jeannine Bolles, Janesville, Wis.

B.A. '50, University of Wisconsin. Field of Concentration: Educational Psychology.

Albert Butcher, Colorado Springs, Colo.

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

John Robert Carter, Wichita, Kan.

B.S. '28, Kansas State Teachers College. Field of Concentration: Educational Administration.

Robert Hayden Donahugh, St. Paul

B.A. '52, College of St. Thomas. Field of Concentration: Library Science.

Joanne Ruth Drumb, St. Paul

B.A. '52, Hamline University. Field of Concentration: Library Science.

David Crocker Duddles, Excelsior

B.A. '51, Bob Jones University. Field of Concentration: Educational Administration.

Frank F. Engdahl, Minneapolis

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

Bruce Michael Erickson, River Falls, Wis.

B.S. '39, River Falls State Teachers College. Field of Concentration: Educational Administration.

Mabel May Erlandson, Franklin

B.S. '43, University of Minnesota. Field of Concentration: Curriculum and Instruction.

William Francis Ferguson, Minneapolis

B.A. *cum laude* '47, University of Minnesota. Major: Child Welfare. Minor: Psychology. Thesis: A Follow-up Study of Pupils Selected by Teachers as Best Adjusted or Most Maladjusted.

Virginia Lee Fly, Evansville, Ind.

B.S. '44, Lindenwood College. Field of Concentration: Educational Psychology.

Ann E. Gabrielsen, Minneapolis

B.A. *cum laude* '46, Brooklyn College. Field of Concentration: Psychology.

Albert Leroy Gallop

B.A. '48, Augsburg College. Field of Concentration: Educational Administration.

Norman Gregor, Albuquerque, N.M.

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

Isaiah Guttman, Minneapolis

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

John Victor Halvorson, St. Paul

B.A. '43, Luther College. Field of Concentration: History.

Henry Martin Hambrecht, Jr., Princeton

B.S. '47, St. Cloud State Teachers College. Field of Concentration: Physical Education.

John Krogness Hansen, Pembina,

N.D.

B.S. '46, B.S. '48, University of Minnesota. Field of Concentration: Educational Administration.

Reinald Christian Heise, Emmetsburg, Iowa

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

Mary Ann Herman, Boone, Iowa

B.A. '50, State University of Iowa. Field of Concentration: American Studies.

LeRoy Alburn Hewitt, Portland, Ore.

B.S. '48, University of Oregon. Field of Concentration: Business Administration.

Ruth Sachiko Ide, Hilo, Hawaii

B.S. '53, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction.

Doris M. M. Ikenaga, Honolulu, Hawaii

B.A. '52, University of Hawaii. Field of Concentration: Psychology.

Thomas Henry Kingsley, Minneapolis
B.A. '47, St. John's University. Major: Curriculum and Instruction. Minor: Philosophy. Thesis: The Necessity for Public Supervision in Dairy Products Processing and Its Relation to Consumer Protection.

Freeman George Koberstein, Oberlin, Ohio

B.A. *magna cum laude* '39, University of Minnesota. Major: Music. Minor: English. Thesis: A Study of the Ormentation of *The Well-Tempered Clavier* of J. S. Bach.

Thelma Ann Kunde, Darwin

B.A. *magna cum laude* '50, University of Minnesota. Field of Concentration: Psychology.

Jack Lyle Larsen, Racine, Wis.

B.A. '47, Iowa State Teachers College. Field of Concentration: American Studies.

Louis Kenneth Larson, Moose Lake

B.E. '36, Duluth State Teachers College. Field of Concentration: Educational Administration.

George Emil Lillquist, Minneapolis

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

Dale Eugene Linebarger, Seattle, Wash.

B.A. '47, University of Washington. Field of Concentration: American Studies.

Chin-Sui Liu, Taipeh, Formosa

B.A. '48, National Taiwan University. Major: Political Science. Minor: History. Thesis: The International Tendency of the Post-War Constitutions.

Otto Paul Majewski, International Falls

B.A. *cum laude* '52, University of Minnesota. Major: Geology. Minor: Petroleum Engineering. Thesis: The Platteville Formation.

Frank Tibor Manheim, Kansas City, Mo.

B.A. *cum laude* '51, Harvard College. Major: Geology. Minor: Geophysics. Thesis: Variations in Oxidation-Reduction Potential in the Jurassic of Morehouse Parish, Louisiana.

Joan Alice Markley, Minneapolis

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

Eugene Franklin McKibbin, Arcadia, Calif.

B.S. with highest honors '49, Mankato State Teachers College. Field of Concentration: Economics.

Harold O. Melby, Wayzata

B.S. '46, Bemidji State Teachers College. Field of Concentration: Educational Administration.

Peter Merkl, Munich, Germany

Graduate '52, University of Munich. Major: International Relations. Thesis: The Reservation of Domestic Jurisdiction.

Donald Anson Murphy, Long Beach, Calif.

B.S. '50, Stanford University. Field of Concentration: Physics.

Ernest Burt Nelson, Superior, Wis.

B.S. '38, University of Minnesota. Field of Concentration: Industrial Education.

Edward Hegbom Ness, Duluth

B.A. '41, St. Olaf College. Field of Concentration: Curriculum and Instruction.

Gordon Willis Olson, St. Paul

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

Allan Donald Orman, Minneapolis

B.A. *cum laude* '52, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: Factors Related to Rural Migration in Minnesota, 1940-50.

James Whigam Piety, Oak Park, Ill.

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

Martin Rabunsky, Wilmington, N.C.

B.S. '52, East Carolina College. Field of Concentration: Educational Administration.

Dorothy Marie Rasmussen, Hutchinson

B.A. '49, Gustavus Adolphus College. Field of Concentration: Library Science.

Bernard Henry Schepers, Hutchinson

B.S. '46, St. Cloud State Teachers College. Field of Concentration: Education.

Frank Anthony Sis, St. Cloud

B.A. *cum laude* '51, St. John's University. Field of Concentration: International Relations.

Ralph Howard Sorenson, St. Cloud

B.S. '26, M.A. '39, University of Minnesota. Field of Concentration: Educational Psychology.

Arthur Dodge Spoolman, Hayward, Wis.

Ph.B. '42, Northland College. Field of Concentration: Curriculum and Instruction.

G. Alex Stach, Letcher, S.D.
Cand. Phil. '50, Charles University in Prague.
Major: Political Science. Minor: Sociology.
Thesis: Pacifism and Revolution: Great Britain
and India (1914-1950).

Jack Erwin Tohtz, St. Louis, Mo.
B.A. '50, Washington University. Field of
Concentration: English.

Mary Rachel Towey, Minneapolis
B.S. '40, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Zoe Leighton Wilkerson, St. Paul
B.A. *summa cum laude* '52, University of Min-
nesota. Field of Concentration: Library Science.

Master of Arts in Public Administration

Maung Hla Aung, Rangoon, Burma
B.A. '50, LL.B. '52, University of Rangoon.
Major: Public Administration. Thesis: Recruit-
ment of Civil Service Personnel in Minnesota
State Government.

Stanley Burton Kronstedt, Minne-
apolis
B.A. *cum laude* '52, University of Minnesota.
Field of Concentration: Public Administration.

Kenneth Coutts Tollenaar, Portland,
Ore.

B.A. '50, Reed College. Major: Public Admin-
istration. Thesis: Employee Attitudes Toward
Position Classification in the Public Service.

Master of Business Administration

Keith Lightfoot Thomas, Minneapolis
B.A. '50, St. Cloud State Teachers College.
Field of Concentration: Business Administra-
tion.

Master of Fine Arts

Bruce Raymond Shobaken, Minne-
apolis
B.A. '50, University of Minnesota. Major: Art.
Minor: Humanities. Thesis: Abstract Expres-
sionism (New York School).

Master of Science

Jean Thornton DeBell, East
Chatham, N.Y.
B.S. '48, University of Connecticut. Field of
Concentration: Zoology.

Herman Delancy, Cartersville, Ga.
M.D. '46, Medical College of Georgia. Major:
Surgery. Minor: Pathology. Thesis: The Effect
of Surgery on the Extra-cellular Water and
Electrolytes.

Gertrude M. Vanderwal Glaman,
Minneapolis
B.A. *cum laude* '47, Central College. Major:
Agricultural Biochemistry. Minor: Organic
Chemistry. Thesis: Preparation of 2,4-Dinitro-
phenolphosphate and the Action of Phospha-
tase on Various Phenol and Alkyl Phosphates.

James David Groves, Bremerton,
Wash.
B.S. with honors '51, The State College of
Washington. Field of Concentration: Organic
Chemistry.

Paul Arthur Hedin, Maple Plain
B.A. '48, B.S. '50, University of Minnesota.
Major: Agricultural Biochemistry. Minor: Or-
ganic Chemistry. Thesis: Studies on the Lipid
Content of the Liver of New Born Rats as
Affected by the Maternal Diet.

Oleg Jardetzky, Minneapolis
B.A. '50, Macalester College. Major: Physiol-
ogy. Minor: Physiological Chemistry. Thesis:
Convulsions in C_3H Male Mice in Relation to
Dietary Fat.

Marguerite C. Keller, Omaha, Neb.
B.A. '43, University of Omaha. Major: Physiology. Minor: Physiological Chemistry. Thesis: The Inhibitory Effect of Constant Light on the Eosinophil Rhythm of ABC Male Mice.

Riley Donald Konerza, Silver Lake
B.S. '49, University of Minnesota. Field of Concentration: Plant Pathology.

Robert Karl Lindorfer, St. Paul
B.S. '47, College of St. Thomas. Major: Bacteriology. Minor: Physiological Chemistry. Thesis: The Characterization of an Unidentified Virus Found in Association with Line 1 Leukemia.

Jerome Benedict Malerich, Minneapolis
B.S. '52, University of Minnesota. Major: Metallurgy. Minor: Physics. Thesis: Investigation of the Critical Size Theory of Temper Brittleness in SAE 3312 Steel.

William Matalamaki, Grand Rapids
B.S. '42, University of Minnesota. Field of Concentration: Agricultural Education.

Jurij Melnykowycz, St. Paul
Graduate '49, University of Munich. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: A Study on Amine Formation by Intestinal Bacteria of the Rat and the Influence of Chlortetracycline Thereon.

John Francis Mulvehill, St. Peter
B.S. '52, University of Minnesota. Major: Soils. Minor: Agronomy. Thesis: The Effect of Boron Applications on the Yield and the Boron Content of Oats and Alfalfa.

Donald Morris Nelson, Tyler
B.S. with distinction '47, University of Minnesota. Field of Concentration: Agricultural Education.

Donald Gene Ramras, St. Paul
B.A. *cum laude* '50, University of Minnesota. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: A Comparison of Some of the Properties of Mitochondria and Microsomes as Isolated in Alkaline Saline and 0.88M Sucrose.

David Blair Roberts, Britton, S.D.
B.A. '52, University of Minnesota. Major: Geology. Minor: Petroleum Engineering. Thesis: Relationships Between Lithology and Microfossils in the Lower Tertiary of Northwestern Utah.

Herschel Clayton Self, Minneapolis
B.A. '50, University of California. Field of Concentration: Psychology.

A. Leslie Smith, Brainerd
B.A. '31, Southwestern University. Field of Concentration: Agricultural Education.

Jerome Sutin, Albany, N.Y.
B.S. '51, Siena College. Major: Anatomy. Minor: Neurophysiology. Thesis: The Cerebral Cortical Response to Topical Strychninization and Afferent Stimulation.

John Francis Tuite, New York, N.Y.
B.A. '51, Hunter College. Major: Plant Pathology. Minor: Botany. Thesis: The Mold Flora of Barley Seed in Relation to the Deterioration of Stored Barley.

Master of Science in Chemical Engineering

Howard Albert McLain, East Detroit,
Mich.

B.S. in Ch.E. with distinction '50, Wayne University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Transient Analysis of Some Fluid Flow Problems.

Master of Science in Civil Engineering

Manuel Serafin Pereira Carrera, Salvador, Brazil, S.A.
C.E. '45, University of Bahia. Field of Concentration: Civil Engineering.

John James Casey, Minneapolis
B.C.E. '50, University of Minnesota. Major: Civil Engineering. Minor: Mathematics and Mechanics. Thesis: Study of a Perforated Plate-Type Entrance to a Flow-Through Sedimentation Basin.

Richard Dobrovolny, Ross, N.D.
B.S. in C.E. '52, University of North Dakota. Field of Concentration: Civil Engineering.

Athanasios Komninou, Athens, Greece
Graduate '44, Technical University of Athens. Field of Concentration: Civil Engineering.

Master of Science in Dental Surgery

Everett Ellison Stewart, Pittsburgh,
Pa.

D.D.S. '50, University of Pittsburgh. Major:
Dental Surgery. Minor: Anatomy. Thesis:
Involvement of the Dental Pulp by Malignant
Tumors of the Oral Cavity.

Master of Science in Dentistry

Joseph Wilson Janda, Minneapolis

D.D.S. '51, University of Minnesota. Major:
Dentistry. Minor: Anatomy. Thesis: Serial
Study of Dental Eruption During Later Child-
hood.

Master of Science in Electrical Engineering

Herbert James Hannam, Minneapolis
B.S. with distinction '51, University of Minne-
sota. Major: Electrical Engineering. Minor:
Mathematics. Thesis: The Flicker Noise Due
to a High Resistance Interface Layer.

Otto Sauseng, Salzburg, Austria
Graduate '52, University of Vienna. Major:
Electrical Engineering. Minor: Mathematics
and Mechanics. Thesis: Induced Grid Noise.

Master of Science in Mechanical Engineering

Merton Lee Bartsch, Rapidan

B.S. with distinction '52, University of Minne-
sota. Major: Mechanical Engineering (Mate-
rial Processing). Minor: Mechanical Engineer-
ing (Heat Power). Thesis: Effect of Varying
Silicon Content on the Thermal Conductivity
of Nodular Cast Iron.

Richard Carl Brown, Minneapolis

B.M.E. '50, University of Minnesota; M.B.A.
'52, University of Pennsylvania. Field of Con-
centration: Mechanical Engineering.

Master of Science in Medicine

Earl Francis Beard, Peoria, Ill.

M.D. '48, Northwestern University. Major:
Medicine. Minor: Physiology. Thesis: A Study
of Hemodynamics in Coarctation of the Aorta
(Before and After Surgical Repair) Using Dye
Injection and Direct Arterial Pressure Record-
ing Methods.

Fred Z. Havens, Jr., Rochester

B.S. '42, M.D. '45, University of Minnesota.
Major: Medicine. Minor: Hematology. Thesis:
A Study of the Peripheral Blood in Patients
with Malignant Tumors With and Without
Metastasis to the Bone Marrow.

Alexander Mackey Minno, Pittsburgh,
Pa.

B.S. '43, M.D. '47, University of Pittsburgh.
Major: Medicine. Minor: Pathologic Anatomy.
Thesis: Pheochromocytoma of the Adrenal
Gland: A Pathologic Study.

Waldemar Norman Person, Bismarck,
N.D.

M.D. '46, Loyola University. Major: Medicine.
Minor: Pathologic Anatomy. Thesis: The In-
cidence of Pancreatic Lesions in Biliary Tract
Disease.

John Douglas Ruff, Ridgeway, S.C.

B.S. '43, Clemson College; M.D. '46, South
Carolina State Medical College. Major: Medi-
cine. Minor: Hematology. Thesis: Anemia in
Persons with Renal Azotemia.

Robert George Tompkins, Tacoma,
Wash.

M.D. '47, Northwestern University. Major:
Medicine. Minor: Physiology. Thesis: Hemo-
dynamic Studies in Mitral Stenosis Before and
After Mitral Commissurotomy.

Master of Science in Neurology

Charles Van Buskirk, Minneapolis
B.A. '39, Westminster College; M.S. '41, St. Louis University; Ph.D. '43, University of Minnesota; M.D. '47, Albany Medical College.
Major: Neurology. Minor: Neuropathology.
Thesis: Some Aspects of the Rehabilitation of the Hemiplegic Patient.

Master of Science in Ophthalmology

Gilbert A. Reese, San Mateo, Calif.
B.A. '46, Stanford University; B.S. '47, M.D. '49, University of Wisconsin. Major: Ophthalmology. Minor: Surgical Pathology. Thesis: An Ophthalmic Evaluation of the Orbital Decompression Operation for Progressive Exophthalmos.

Master of Science in Orthopedic Surgery

John Roland Barber, Windsor,
Ontario, Canada
M.D. '47, University of Western Ontario.
Major: Orthopedic Surgery. Minor: Surgical Pathology. Thesis: The Lymphatic Spread of Soft Tissue Sarcomas of the Extremities with Special Reference to Neural and Perineural Involvement.

Master of Science in Pediatrics

Eran Omer Burgert, Jr., Colorado
Springs, Colo.
M.D. '47, University of Oklahoma. Major: Pediatrics. Minor: Hematology. Thesis: Study of Recurrent Anemias in Children with Special Regard to Congenital Hypoplastic Anemia.

Master of Science in Plastic Surgery

Milton E. Kurth, Chicago, Ill.
B.S. '35, M.D. '36, University of Illinois.
Major: Plastic Surgery. Minor: Surgical Pathology. Thesis: Histologic Types of Basal Cell Carcinoma: A Clinico-Pathologic Study of 1,000 Surgically Treated Cases (1941-50).

Master of Science in Radiology

Charles F. Smith, Kokomo, Ind.
B.A. '44, M.D. '46, Indiana University. Major: Radiology. Minor: Surgical Pathology. Thesis: Physiologic Vertebral Ligamentous Calcification: An Aging Process.

Master of Science in Surgery

James Bruce Johnston, Aberdeen,
Scotland

M.B., Ch.B. '47, University of Aberdeen. Major: Surgery. Minor: Surgical Pathology. Thesis: Smooth Muscle Tumors of the Oesophagus—A Clinico-Pathological Study.

John Henry Linner, Minneapolis

B.A. *magna cum laude* '39, Gustavus Adolphus College; M.D. '43, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: A Study of the Effect of Para-Amino Salicylic Acid on Blood Coagulation and Prothrombin Concentration in Patients with Tuberculosis.

Mitchell Stanley Madison, Rochester,
N.Y.

B.A. '42, Amherst College; M.D. '46, University of Rochester. Major: Surgery. Minor: Surgical Pathology. Thesis: Carcinoma of Rectum and Rectosigmoid Invading Veins, as Evidenced by Venous Radiography.

J D Mortensen, Tempe, Ariz.

B.A. '42, Arizona State College; M.D. '46, University of Southern California. Major: Surgery. Minor: Pathologic Anatomy. Thesis: Nephrocalcinosis: A Collective Clinico-Pathologic Study.

Harold Wilfred Neuman, Kingston,
Ontario, Canada

M.D., C.M. '46, Queen's University. Major: Surgery. Minor: Surgical Pathology. Thesis: Regional (Segmental) Colitis—A Clinical and Pathologic Study.

Donald Norman Vivian, Schenectady,
N.Y.

M.D. '46, Boston University. Major: Surgery. Minor: Surgical Pathology. Thesis: Histoplasmosis: A Clinical Pathological Study.

Doctor of Philosophy

Orville Bendolph Aftreth, Robbinsdale

B.S. '36, M.A. '47, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Effect of the Systematic Analysis of Errors on Achievement in the Study of Fractions at the Sixth Grade Level. Major Adviser: Prof. L. J. Brueckner.

Aryadasa Amarasinghe, Colombo,
Ceylon

Graduate '39, Bengal Veterinary College; M.P.H. '52, M.S. '53, University of Minnesota. Major: Veterinary Medicine. Minor: Public Health. Thesis: New Procedures for Differentiating Specific from Non-Specific Agglutination in Brucellosis Serum and Milk Tests. Major Adviser: Prof. M. H. Roepke.

Victor Elving Anderson, St. Paul

B.A. *magna cum laude* '45, M.S. '49, University of Minnesota. Major: Zoology. Minor: Physiology. Thesis: A Genetical Study of Human Breast Cancer. Major Adviser: Prof. S. C. Reed.

Joseph Andriola, San Bernardino,
Calif.

B.A. '38, M.S.W. '42, University of Michigan. Major: Social Work. Minor: Sociology. Thesis: A Comparative Study of Non-Truant and Truant Children. Major Adviser: Prof. J. C. Kidneigh.

Louis William Balcziaik, Duluth

B.S. '40, Duluth State Teachers College; M.A. '49, University of Minnesota. Major: Education. Minor: Inorganic Chemistry. Thesis: The Role of the Laboratory and Demonstration in College Physical Science in Achieving the Objectives of General Education. Major Adviser: Prof. P. O. Johnson.

Arthur Harold Ballet, Hibbing

B.S. with high distinction '47, M.A. '49, University of Minnesota. Major: Speech. Minor: Education. Thesis: An Analysis of Value Judgments in Selected Secondary School Plays. Major Adviser: Prof. D. W. Thompson.

Julius John Brezinski, Chicago, Ill.

B.S. with highest honors '49, University of Illinois. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Use of the Internal Michael Reaction in the Synthesis of Morphine Analogues. Major Adviser: Prof. C. F. Koelsch.

Nicolas Brodoway, Vancouver, British
Columbia, Canada

B.S.P. '49, University of British Columbia. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Rearrangements of Allyl Ethers of Some Hydroxymethylene Compounds. Major Adviser: Prof. W. M. Lauer.

Harold Brody, Grand Forks, N.D.

B.S. '47, Western Reserve University. Major: Anatomy. Minor: Pathology. Thesis: Age Changes in the Cerebral Cortex. Major Adviser: Prof. Berry Campbell.

Nathaniel Avrom Buchwald, Minneapolis

B.S. '46, University of Miami. Major: Anatomy. Minor: Physiology. Thesis: Studies on the Electroarchitectonics of the Cerebral Cortex. Major Adviser: Prof. Berry Campbell.

Morton John Cronin, Minneapolis

B.A. with distinction '44, M.A. '45, Wayne University. Major: American Studies. Thesis: Four American Columnists—A Study in the Partisan Anatomy of David Lawrence, Walter Lippmann, Drew Pearson, George Sokolsky. Major Adviser: Prof. M. Q. Sibley.

Richard Milton Curtis, Oakland, Calif.

B.S. '48, University of California. Major: Physical Chemistry. Minor: Mathematics. Thesis: An X-ray Spectrometer Study of Elemadienolic Acid. Major Adviser: Prof. W. N. Lipscomb.

Brinton Marlo Dirks, St. Paul

B.S. with high honors '48, M.S. '48, Kansas State College. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: The Properties of Some Fungal Lipases and Their Role in Grain Deterioration. Major Advisers: Profs. P. D. Boyer and W. F. Geddes.

Abbas Ekrami, Tehran, Iran

Graduate '39, Tehran University. Major: Education. Minor: Educational Psychology. Thesis: A Program for the Improvement of Elementary Education in Iran. Major Adviser: Prof. M. G. Neale.

Robert Ernest Fagen, Minneapolis

B.A. *magna cum laude* '49, M.A. '50, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Certain Probability Limit Theorems and Transformations of Stochastic Processes. Major Adviser: Prof. M. D. Donsker.

Ronald Chester Fraser, St. Paul

B.S. with high distinction '50, M.S. '52, University of Minnesota. Major: Zoology. Minor: Agricultural Biochemistry. Thesis: Studies on Morphogenesis in the Early Chick Embryo Cultured *in vitro*. Major Adviser: Prof. N. T. Spratt, Jr.

Francis Clifford Gamelin, Robbinsdale

B.A. *magna cum laude* '38, Gustavus Adolphus College; M.A. '46, University of Minnesota. Major: Psychology. Minor: Child Welfare. Thesis: Intercollege Comparisons of Student Satisfaction with College Life. Major Adviser: Prof. D. G. Paterson.

James Devine Geerdes, Davenport, N.D.

B.S. '49, M.S. '50, North Dakota Agricultural College. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Constitution of Flax Straw Hemicellulose. Major Adviser: Prof. Fred Smith.

Harold Orbeck Goodman, Minneapolis

B.A. '48, M.A. '50, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: Incidence of Breast Cancer in the Daughters of Patients Who Had Breast Cancer a Generation Ago. Major Adviser: Prof. S. C. Reed.

James Guthrie Hamilton, Jr., Clebit, Okla.

B.S. '48, M.S. '50, Oklahoma A. & M. College. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Displacement Separation of Lipids. Major Adviser: Dr. W. D. Armstrong.

Earl Gullette Hammond, Terrell, Texas

B.S. with honors '48, M.A. '50, University of Texas. Major: Agricultural Biochemistry. Minor: Physiology. Thesis: The Chemistry and Metabolism of Highly Unsaturated Fatty Acids. Major Adviser: Prof. W. O. Lundberg.

Joseph Thomas Hanson, Los Angeles, Calif.

B.S. '27, M.A. '39, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Responsibilities, Professional Characteristics, and Training Recommendations of Counselors in Public Junior Colleges of California. Major Advisers: Profs. R. J. Keller and R. E. Eckert.

Howard Levi Hartman, Minneapolis

B.S. '46, M.S. '47, The Pennsylvania State College. Major: Mining Engineering. Minor: Geology. Thesis: Dry Control of Dust Formed During Percussion Drilling. Major Adviser: Prof. T. L. Joseph.

Marvin James Herbert, Olivet, Mich.

B.A. '41, Olivet College; M.A. '42, University of Nebraska. Major: Psychology. Minor: Neurophysiology. Thesis: The Generation of the Fractionated Goal Response by Differential Effector Activity at the Goal Box. Major Adviser: Prof. W. T. Heron.

Fred Hall Higginson, Manhattan, Kan.

B.A. *cum laude* '42, M.A. '48, University of Wichita. Major: English. Minor: Linguistics. Thesis: James Joyce's Revisions of *Finnegans Wake*: A Study of the Published Versions. Major Adviser: Prof. L. H. Unger.

Earl Douglas Holly, Medina, Ohio

B.S. with distinction '49, University of Michigan. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Cyclopropanes IX: A Review of the Work of Kohler and Williams—An Attempt to Prepare an Allenic Ketone. Major Adviser: Prof. L. I. Smith.

John Baskerville Hyde, Morgantown, W.Va.

B.S. '44, University of South Dakota. Major: Anatomy. Minor: Bacteriology. Thesis: The Fifth Nerve of the Shrew. Major Adviser: Prof. Berry Campbell.

Ivar Vidrik Ivask, Estonia

Graduate '49, Philipps University; M.A. '50, University of Minnesota. Major: German. Minors: Linguistics and Art. Thesis: Hofmannsthal als Kritiker der Deutschen Literatur. Major Adviser: Prof. F. H. Wood.

Arthur LaVerne Johnson, St. Paul

B.A. cum laude '41, Gustavus Adolphus College. Major: Sociology. Minor: Economics. Thesis: A Study of the Applicability of Selected Marital Success Criteria in Certain Population Groups. Major Adviser: Prof. F. S. Chapin.

Roberta A. E. Johnson, Minneapolis

B.S. '47, M.A. '48, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Relationship Between Reading Ability and the Use of Communication Media by Adolescents. Major Adviser: Prof. G. L. Bond.

James Alexander Johnston, Houston, Texas

B.A. '48, University of Texas; M.S. '51, University of Minnesota. Major: Botany. Minor: Agricultural Biochemistry. Thesis: Studies on Some Light Activated Processes in *Rhodospirillum rubrum*. Major Adviser: Prof. A. W. Frenkel.

John Donald Jones, Corona, Calif.

B.S. '49, University of Wisconsin. Major: Organic Chemistry. Minor: Agricultural Biochemistry. Thesis: Benzo-1,4-Oxathiadiene. Major Adviser: Prof. W. E. Parham.

LaVerne Frank Knappe, Caledonia

B.M.E. '44, M.S. in M.E. '47, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics and Mechanics. Thesis: A Theoretical and Experimental Investigation of Factors Influencing Instrument Gear Accuracy. Major Adviser: Prof. E. N. Kemler.

Frederick Karl Kristjansson, Winnipeg, Manitoba, Canada

B.S.A. '47, University of Manitoba; M.S. '48, University of Minnesota. Major: Animal Husbandry. Minor: Plant Genetics. Thesis: A Study of Corrections for Factors Influencing Feed Requirements of Swine in the Minnesota Swine Breeding Project. Major Adviser: Prof. L. M. Winters.

Louis Richard Lavine, Trenton, N.J.

B.S. with distinction '48, M.S. '49, University of Michigan. Major: Physical Chemistry. Minor: Mathematics. Thesis: The Crystal and Molecular Structure of B_5H_{11} . Major Adviser: Prof. W. N. Lipscomb.

Jui Shuan Lee, China

B.S. '36, National Tsing Hua University; M.S. '50, University of Minnesota. Major: Physiology. Minor: Physiological Chemistry. Thesis: Studies on the Absorption of Water from the Intestine. Major Adviser: Dr. M. B. Visscher.

Robert Meyer Leonard, Pocatello, Idaho

B.S. '44, University of Idaho. Major: Pharmacognosy. Minor: Pharmacology. Thesis: A Pharmacognostical Investigation of *Chenopodium Botrys* L. and Related Species. Major Adviser: Prof. E. B. Fischer.

Robert Greening Lockwood, Faribault

B.A. '49, Carleton College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Studies in the Rearrangement of Allylic Imido Ethers. Major Adviser: Prof. W. M. Lauer.

William Harrison Lucow, Winnipeg, Manitoba, Canada

B.A. '46, B.Ed. '48, M.Ed. '51, University of Manitoba; M.A. '50, University of Ottawa. Major: Educational Psychology. Minor: Psychology. Thesis: The Use of Analysis of Variance in Estimating the Components of Variation in an Experimental Study of Learning. Major Adviser: Prof. P. O. Johnson.

John Alfred Maxwell, Hamilton, Ontario, Canada

B.Sc. '49, M.Sc. '50, McMaster University. Major: Geology. Minor: Analytical Chemistry. Thesis: Geochemical Study of Chert and Related Deposits. Major Advisers: Profs. S. S. Goldich and E. B. Sandell.

Warren Francis McGuckin, Rochester
B.S. '47, M.S. '50, Iowa State College. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: The Partial Synthesis and Physiologic Study of Some Analogs of Adrenal Hormones. Major Advisers: Drs. H. L. Mason and W. D. Armstrong.

Herbert Merzbach, Minneapolis

Graduate '33, University of Rostock. Major: Linguistics. Minor: Classics. Thesis: The Phonological Theory of the School of Prague: An Exposition and Revision. Major Adviser: Prof. R. F. Spencer.

**Krishna Prasad Misra, Lucknow,
India**

B.Sc. '44, M.Sc. '47, Lucknow University. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the Existence and Nature of Combined Ascorbic Acid in Plant and Animal Materials. Major Adviser: Prof. M. O. Schultz.

Daryl Gordon Mitton, Minneapolis

B.Ch.E. with distinction '44, M.B.A. '48, University of Minnesota. Major: Business Administration. Minors: Industrial Engineering and Psychology. Thesis: Effects of Decentralized Management in Selected Industries. Major Adviser: Prof. George Filippetti.

**Raghunath Ganpatrao Mokadam,
Wardha (M.P.), India**

B.Sc. '46, Benares Hindu University; M.M.E. '49, University of Louisville. Major: Mechanical Engineering. Minor: Electrical Engineering. Thesis: Irreversible Thermodynamics of Vapor Transmission Through Porous Media. Major Adviser: Prof. N. A. Hall.

John Earl Naugle, Belle Fourche, S.D.
B.Phys. with distinction '49, M.S. '50, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: High Energy Phenomena in Nuclear Emulsions. Major Adviser: Prof. E. P. Ney.

Som Nath Nayyar, India

B.S. '43, M.S. '44, University of Punjab. Major: Physiological Chemistry. Minor: Physical Chemistry. Thesis: Quantitative Histological Distribution of B-Glucuronidase in the Adrenal Gland in Various Physiological States. Major Adviser: Prof. David Glick.

Arnold Gerhard Nelson, Stillwater

B.A. '41, Hamline University; M.A. '48, University of Minnesota. Major: American Studies. Thesis: Class and Status in the American Novel, 1789-1850. Major Adviser: Prof. Tremaine McDowell.

Michael Joseph Pallansch, St. Cloud

B.A. '48, St. John's University. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the Interaction of Synthetic Detergents with Proteins in Solution. Major Adviser: Prof. D. R. Briggs.

Dallis Kay Perry, Anacortes, Wash.

B.S. *cum laude* '50, University of Washington; M.A. '51, University of Minnesota. Major: Psychology. Minor: Economics. Thesis: Forced Choice versus L-I-D Response Items in Vocational Interest Measurement. Major Advisers: Profs. D. G. Paterson and K. E. Clark.

Chiung Y. Puh-Lee, China

B.S. '39, National Central University; M.S. '51, University of Minnesota. Major: Physiology. Minor: Physiological Chemistry. Thesis: Some Effects of Specific Dietary Alterations Upon the Life Span and the Causes of Death in C₃H Male Mice. Major Adviser: Dr. J. T. King.

Arthur Lachlan Reed, Wayzata

B.A. '39, M.A. '42, Yale University. Major: English. Minor: Philosophy. Thesis: Asa Greene, New England Publisher, New York Editor and Humorist, 1789-1838. Major Adviser: Prof. Theodore Hornberger.

Harold Jesse Rhodes, St. Paul

B.S. '49, University of Minnesota. Major: Pharmaceutical Chemistry. Minors: Organic Chemistry and Pharmacology. Thesis: The Synthesis of 2-Hydroxyoctahydroquinolizine and Some of Its Esters. Major Adviser: Prof. T. O. Soine.

Mary Lund Rice, Minneapolis

B.A. *magna cum laude* '38, M.A. '41, University of Minnesota. Major: English. Minor: Philosophy. Thesis: The Moral Conservatism of Edith Wharton. Major Adviser: Prof. W. V. O'Connor.

**Curtis Woodard Roane, Blacksburg,
Va.**

B.S. '43, M.S. '44, Virginia Polytechnic Institute. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Genetic Variation and Cytology of *Helminthosporium carbonum* Ullstrup and the Importance of the Pathogen in the Development of Disease-Resistant Maize. Major Advisers: Profs. C. J. Eide and J. J. Christensen.

Hugh Elburn Robertson, St. Paul

B.A. '38, M.A. '43, University of Saskatchewan. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: The Mechanisms of Enzymic Reactions of Phosphate as Studied with Sodium Azide, 2,4-Dinitrophenol and Compounds of Tervalent Phosphorus. Major Adviser: Prof. P. D. Boyer.

Arthur Joseph Robins, Schenectady, N.Y.

B.S. '43, College of the City of New York; M.S.W. '48, Carnegie Institute of Technology. Major: Social Work. Minor: Sociology. Thesis: Prediction of Success or Failure of Patients on Convalescent Leave from a State Mental Hospital. Major Adviser: Prof. J. C. Kidneigh.

Franklin Ernest Roth, Newark, N.Y.

B.A. '47, Antioch College. Major: Pharmacology. Minor: Physiology. Thesis: The Effects of Hypoxia and Certain Drugs Upon the Experimental Production of Bacterial Endocarditis in Rats. Major Adviser: Dr. R. N. Bieter.

Donald Richard Shea, Milwaukee, Wis.

B.A. *magna cum laude* '47, M.A. '49, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Calvo Clause. Major Adviser: Prof. C. H. McLaughlin.

Malcolm C. Shurtleff, Jr., Kingston, R.I.

B.S. '43, Rhode Island State College; M.S. '50, University of Minnesota. Major: Plant Pathology. Minor: Agricultural Biochemistry. Thesis: Brown Patch of Turf Caused by *Rhizoctonia solani*. Major Adviser: Prof. Helen Hart.

Sahaja Nand Singh, Ballia, U.P., India

G.B.V.C. '46, Behar Veterinary College; M.S. '50, Michigan State College. Major: Animal Husbandry. Minors: Zoology and Statistics. Thesis: The Estimates of Repeatability and Heritability of Milk, Total Butterfat and Percentage of Butterfat and Their Inter-relationships in Indian Dairy Cattle. Major Adviser: Prof. L. M. Winters.

Edgar Josef Smutny, New York, N.Y.

B.A. *cum laude* '48, University of Colorado. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Chemistry of 10-Phenylphenanthrol-9, Particularly Electrophilic and Nucleophilic Substitution. Major Adviser: Prof. C. F. Koelsch.

Edward Orley Swanson, Pelican Rapids

B.A. *summa cum laude* '48, M.A. '49, University of Minnesota. Major: Psychology. Minor: Education. Thesis: A Follow-up Study of College Trained vs. Non-college Trained High School Graduates of High Ability. Major Adviser: Prof. D. G. Paterson.

Richard Charles Toole, Detroit, Mich.

B.S. '48, University of Michigan. Major: Inorganic Chemistry. Minor: Analytical Chemistry. Thesis: Metal Complexes with Optically Active Diamines. Major Adviser: Prof. T. D. O'Brien.

Lowell R. Tozer, Chicago, Ill.

B.A. '47, University of Chicago; M.A. '49, DePaul University. Major: American Studies. Thesis: American Attitudes Toward Machine Technology, 1893-1933. Major Adviser: Prof. Leo Marx.

Eugene Victor Walter, Eau Claire, Wis.

B.A. '47, University of Miami; M.A. '49, Duke University. Major: Political Science. Minor: Philosophy. Thesis: The Idea of Justice in Sociological Jurisprudence. Major Adviser: Prof. M. Q. Sibley.

Helen Lucille Wardeberg, Barnesville

B.S. '45, Moorhead State Teachers College; M.A. '48, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Relationship of Reading Ability to the Newspaper Reading Done by Adolescents. Major Adviser: Prof. G. L. Bond.

Mary Watkins, Minneapolis

B.S. *cum laude* '46, Butler University; M.A. '47, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparison of the Reading Proficiencies of Normal-Progress and Reading Disability Cases of the Same I.Q. and Reading Level. Major Adviser: Prof. G. L. Bond.

Edward Lockwood Wheeler, Mystic, Conn.

B.S. *cum laude* '49, Brown University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Studies in a Synthesis of Dehydroabietic Acid. Major Adviser: Prof. W. E. Parham.

Robert Gordon Zumwinkle, St. Cloud

B.A. '43, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: Factors Associated with the Compatibility of Roommates: A Test of the Birds-of-a-Feather Hypothesis. Major Adviser: Prof. W. W. Cook.

Earl Theodore Zwetschke, Long Beach, Calif.

B.S. '46, Washington University; M.P.S. '47, University of Colorado. Major: Educational Psychology. Minor: Psychology. Thesis: The Function of the MMPI in Determining Fitness for Student Teaching at the Nursery School, Kindergarten, and Primary School Level. Major Adviser: Prof. W. E. Dugan.

Doctor of Philosophy in Obstetrics and Gynecology

Irwin Herbert Kaiser, Minneapolis

B.A. '38, Columbia University; M.D. '42, Johns Hopkins University. Major: Obstetrics and Gynecology. Minor: Physiology. Thesis: The Contractile Activity of the Pregnant Human Uterus Prior to Labor—A Study with the Reynolds Tokodynamometer. Major Adviser: Dr. J. J. McKelvey.

Doctor of Philosophy in Pathology

Robert Carlton Bahn, Tonawanda,
N.Y.

M.D. '47, University of Buffalo. Major: Pathology. Minor: Physiology. Thesis: The Effects of Stress, ACTH, Cortisone and Desoxycorticosterone on the Quantitative Histological Distribution of Ascorbic Acid in the Adrenal Gland of the Rat and the Monkey. Major Adviser: Dr. J. W. Kernohan.

Doctor of Philosophy in Physiology

Homer Richards Warner, Salt Lake
City, Utah

B.A. '46, M.D. '49, University of Utah. Major: Physiology. Minor: Medicine. Thesis: The Central Arterial Pressure Pulse Contour as an Index to Left Ventricular Stroke Volume in Man. Major Adviser: Dr. E. H. Wood.

Doctor of Philosophy in Surgery

Dean Paul Epperson, Milwaukee,
Wis.

B.A. '42, M.D. '45, Harvard University; M.S. in Surg. '52, University of Minnesota. Major: Surgery. Minor: Biochemistry. Thesis: Diphosphopyridine Nucleotide Pyrophosphatase in Venom and Mammalian Tissues. Major Adviser: Dr. G. A. Fleisher.

CAPS AND GOWNS

AN EXPLANATION

In the medieval city, clothing not unlike that worn by those participating in this commencement was common. The modern academic costume has evolved from the dress of the medieval guilds and their early religious orders.

Today, everyone with a college or university degree may wear the black academic gown. Hoods, which are omitted by seniors who are candidates for degrees, are worn by graduates. At the University of Minnesota, the lining of the hood has a maroon chevron on an old gold ground to represent the University colors. A University faculty member who holds a degree from another college or university wears the colors of his own alma mater.

Distinctions among sleeves indicate the type of degree held by the wearer. A long, pointed sleeve indicates a Bachelor's degree, while a long, closed sleeve with a slit near the upper part of the arm designates a Master's degree. A round, open sleeve marks a Doctor's degree.

The velvet edging on hoods is the color which stands for the field of study of the gown's wearer. It may be white for Arts and Letters, gold-yellow for Science, maize for Agriculture, Forestry, and Home Economics, grey for Veterinary Medicine, or light blue for Education. Orange denotes Technology; dark blue, Philosophy; purple, Law; green, Medicine; and pink, Music. Public Health is shown by salmon pink edging, Dentistry by lilac, Pharmacy by olive, and Commerce and Accounting by drab.

The Doctor's costume also has velvet trimming on the rest of the gown, including crossbars on the sleeves. The trimming may either be black or may match the color of the hood edging.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidate is an honor student.

Caps, or mortarboards, too, have significance. The President of the University is the only one who may wear a velvet cap and a gold tassel.

For the Master's and Doctor's degrees the tassels are always black, but candidates for the Bachelor's degree at this commencement wear tassels which indicate their school or college 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 of the Institute of Agriculture	maize
College of Education.....	light blue
School of Business Administration.....	drab
Law	purple
College of Medical Sciences.....	green
Graduate School	black



UNIVERSITY OF MINNESOTA

Senior Reception

December 1953

- The members of the Senior Class, their relatives and friends are invited by President and Mrs. 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.
- Assisting in the Reception are members of the All-University Congress; Grey Friars and Iron Wedge, senior honorary organizations for men; Mortar Board, senior honorary organization for women; Chimes, junior honorary organization for women; and Phoenix and Silver Spur, junior honorary organizations for men. These students have maroon and gold identifications.
- Those in the receiving line will be President and Mrs. J. L. Morrill and Miss June Carlson, Senior Coordinator, All-University Congress.
- All guests are urged to register at the appropriate tables presided over by members of Phoenix and Silver Spur. The signed pages will be bound and preserved by the class of 1953.
- Punch will be served. The young ladies presiding at the punch tables are members of Chimes.

E. C. C.