

THE
UNIVERSITY OF MINNESOTA

Announces Its

March Centennial Commencement

1951-52

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, MARCH 22

AT EIGHT O'CLOCK



1851

• FOUNDED IN THE FAITH THAT MEN ARE ENNOBLED BY UNDERSTANDING •
DEDICATED TO THE ADVANCEMENT OF LEARNING AND THE SEARCH FOR TRUTH
DEVOTED TO THE INSTRUCTION OF YOUTH AND THE WELFARE OF THE STATE

1951



University of Minnesota

THE BOARD OF REGENTS

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The Honorable Herman F. Skyberg, Fisher

The Honorable Sheldon V. Wood, Minneapolis

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 is currently celebrating its one hundredth birthday. While observing this milestone, 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 103,532 degrees to its students who have completed the rigorous training demanded by the complexities and specialization of modern society.

In addition to the enormous task of giving collegiate instruction to nearly twenty thousand 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 demonstration 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 because it is one of the largest state universities in the nation, but because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in their University is a dynamic, living thing and expresses itself in many ways. Contributions from them now make it possible for the new Variety Club Heart Hospital to be dedicated 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. Gifts to the Greater University Fund, each appropriately called "A Share in Greatness," now being made especially by alumni, are worthy of special mention.

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.

1489606

Order of Events

THE 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 of Minnesota from 7:00 to 7:30 p.m., they will hear the Flemish bells being played from Northrop Memorial Auditorium, Miss Kay Kittleson, carillonneur. Admission to the March commencement exercises in the Auditorium is by guest card only. Guests will be seated as they arrive in the Auditorium and will remain seated until the colors are presented.

BAND CONCERT: Beginning at 7:30 p.m., Mr. Ernest A. Villas, Acting Bandmaster, will lead the University of Minnesota Concert Band in the following program:

Mainliner March	- - - - -	L. B. Smith
Largo	- - - - -	G. F. Handel
Excerpts from Pictures at an Exhibition	- - - - -	M. P. Moussorgsky
Overture, The Marriage of Figaro	- - - - -	W. A. Mozart
Stars and Stripes Forever	- - - - -	J. P. Sousa

PROCESSIONAL: Coronation March from the Prophet - G. Meyerbeer

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: Mr. Keith N. McFarland, Instructor and Assistant to the Dean, College of Agriculture, Forestry, Home Economics, and Veterinary Medicine, Marshal; Mr. James S. Lombard, Director of Concerts and Lectures, Marshal; Dr. Dwight E. Minnich, Professor and Chairman, Department of Zoology, College of Science, Literature, and the Arts; Dr. R. L. Kozelka, Dean of the School of Business Administration; Dr. Henry Schmitz, Dean of the College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Dr. J. W. Buchta, Acting Dean of the College of Science, Literature, and the Arts; Lieutenant Colonel Ralph M. Bitler, U.S.A., Assistant Professor of Military Science and Tactics; Dr. Malcolm M. Willey, Vice President, Academic Administration; Mr. True E. Pettengill, Recorder; Dr. William S. Carlson, President of the University of Vermont; Dr. James Lewis Morrill, President of the University of Minnesota; The Honorable J. S. Jones, member of the Board of Regents; The Honorable Lester A. Malkerson, member of the Board of Regents; Rabbi Lewis Milgrom, member of the Minnesota Council of Religion, Director of the Hillel Foundation, and adviser to Jewish students on the Minneapolis Campus; Mr. William T. Middlebrook, Vice President, Business Administration; Major Walter H. Grierson, USAF, Professor of Air Science and Tactics; Alfred L. Vaughan, Assistant Dean of the General College; Dr. Richard T. Arnold, Assistant to the Dean of the Institute of Technology; Dr. Wesley E. Peik, Dean of the College of Education; Dr. Charles V. Netz, Professor of Pharmacy, College of Pharmacy; Dr. Howard L. Horns, Assistant Dean of the College of Medical Sciences; Mr. James W. Scheu, '51; Mr. Julius M. Nolte, Dean of the General Extension Division, 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. James W. Scheu, soloist.

Order of Events

INVOCATION: Rabbi Lewis Milgrom, member of the Minnesota Council of Religion, Director of the Hillel Foundation, and adviser to Jewish students on the Minneapolis Campus.

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

COMMENCEMENT ADDRESS: "Education for Whom?" William Carlson, Ph.D., President of the University of Vermont.

CONFERRING OF COMMISSIONS: Dr. Malcolm M. Willey, Vice President, Academic Administration, will introduce Lieutenant Colonel Ralph M. Bitler, U.S.A., Assistant Professor of Military Science and Tactics, and Major Walter H. Grierson, USAF, Professor of Air Science and Tactics. They will present their 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 Bitler.

CONFERRING OF DEGREES: Dr. Malcolm M. Willey, Vice President, Academic Administration, 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 Alfred L. Vaughan, Ph.D., General College; Acting Dean J. W. Buchta, Ph.D., College of Science, Literature, and the Arts and University College; Assistant to the Dean Richard T. Arnold, Ph.D., Institute of Technology; Dean Henry Schmitz, Ph.D., College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Dean Wesley E. Peik, Ph.D., College of Education; Dean R. L. Kozelka, Ph.D., School of Business Administration; Professor Charles V. Netz, Ph.D., College of Pharmacy; Assistant Dean Howard L. Horns, M.D., College of Medical Sciences; and Professor Dwight E. Minnich, Ph.D., for the Graduate School. All degrees will be conferred by President Morrill. Immediately afterward, 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 Professor Dwight E. Minnich to President Morrill, who will confer the degrees.

"HAIL! MINNESOTA," the University's alma mater song: The audience and Mr. James W. Scheu, 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: University of Minnesota Concert Band led by Mr. Ernest A. Villas, Acting Bandmaster.

National Emblem - - - - - E. E. Bagley

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, U.S. Army Reserve, SC

Earl H. Wennberg, Minneapolis

Second Lieutenant, U.S. Air Force Reserve, MSC

Curtis E. Tessum, Minneapolis

DEPARTMENT OF AIR SCIENCE AND TACTICS

Second Lieutenant, USAF Reserve

Amos Rosenbloom, Minneapolis

Candidates for Graduation

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

GENERAL COLLEGE

Associate in Arts

Robert Clifford Becker, Washington,
D. C.

Lora Jane Bird, St. Paul

John David Bliedorn, Pipestone

Kenneth Albert Boerger, Minneapolis

Russell Francis Boyd, Minneapolis

Donald Brody, Minneapolis

Daniel Edward Burstein, St. Paul

Phillip M. Carlson, Nye, Wis.

Dean Curtis Carpenter, Windom

Norman Krag Caspersen, Minneapolis

Gerhard David Cohn, St. Paul

Harry Collias, Minneapolis

Daniel Dennis Donovan, St. Paul

Joseph William Dubey, St. Paul

Clinton Robert Ellis, Minneapolis

Richard Matthew Engel, St. Paul

Iris Evangeline Fecht, Minneapolis

Arnold Eugene Finseth, Fountain

Carole Aws Graves, Madison

John Bendix Haberkorn, St. Paul

James Francis Harroun, Minneapolis

Donald Earl Heisel, Virginia

Robert Henry Holmes, St. Paul

Willard Raymond Karkela, Minne-
apolis

Harriet M. Katz, Mankato

John Leo Kodet, Olivia

Rhae Grace Lawrence, St. Paul

John Charles Madden, Minneapolis

Harry Miles, Minneapolis
Curtis William Monroe, Crookston
Douglas Otto Nielsen, Minneapolis
William Ernest Nordmeier, Faribault
Victor Erland Olson, Jr., Minneapolis
Irving Herman Robitshek, Jr., Minneapolis
Bert Solly Spizman, St. Paul

Donald Clinton Stockwell, Sioux Falls, S.D.
Wallace Leslie Stormoen, Minneapolis
Richard John Thelen, Albany
Joseph Frank Wallschlaeger, Jr., Waseca
Marvin Donald Wolf, St. Paul
Donald Roger Zastrow, Wayzata

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Thomas LeRoy Berg, Faribault
Robert Bernard Brouillette, Duluth
Mary Louise Creasor, Minneapolis
William Lawrence Gleason, Minneapolis
Donald Julius Hinz, Elk River
Eugene Wallace Hoglund, Minneapolis
William Wesley Klaus, Charles City, Iowa

Carol Clemens Moore, Minneapolis
Kenneth Phillip Noreen, Minneapolis
Clair Herbert Pfluger, Red Wing
Rose Cecilia Rihm, St. Paul
James Raymond Riley, Jr., Minneapolis
Myrtle Elizabeth Swanson, Paynesville
Donald Bennett Zalk, Minneapolis

Bachelor of Arts

Edmund Bernard Adamic, Hibbing
George Arthur Alexson, Minneapolis
John Amatuzio, Duluth
Laurel Geneva Anderson, Portland, Ore.
Paul Stanley Anderson, Grand Rapids
Hugh Custer Arey, Excelsior
Daniel Armstrong, St. Paul
George Duke Babcock, Minneapolis
Lucy June Balian, St. Paul
Richard Joseph Benda, Minneapolis
Mary Royce Bonwell, Minneapolis
Marilyn Guddal Boutan, Watertown, S.D., MAGNA CUM LAUDE
Marguerite Farrell Boyd, St. Paul
Sherman Albon Bullis, San Diego, Calif.
John Darrel Burkhardt, Long Lake
Frank Newton Chaffee, Minneapolis
Roland Emmanuel Chardon, Boston, Mass., CUM LAUDE
Bruce Wilton Christianson, B.S., Blooming Prairie, CUM LAUDE
Lyman Drewry Coombs, Aberdeen, S.D., CUM LAUDE

Ronald Nelson Cunningham, St. Paul
Patricia Ann Curry, St. Louis Park
Grace Smeltzer Daugherty, Fremont, Ohio
Carol Davis, Madison, Wis.
William Coates Decker, Minneapolis
Don Arthur Desler, St. Paul
Lois Taube Gilbert Devitt, A.L.A., St. Paul
John Albert Dischinger, Chicago, Ill.
Allen William Doerr, St. Louis Park
Jeanne Louise Dols, Minneapolis
Robert Owen Du Tiel, Robbinsdale
Dona Mary Emery, Minneapolis, MAGNA CUM LAUDE
Paul Engstrom, Minneapolis, MAGNA CUM LAUDE
William Clarence Erickson, Duluth, MAGNA CUM LAUDE
Cecil Maynard Fowlds, Glenwood
Joanne Franer, Minneapolis
Frederick John Frazier, Minneapolis
Constance G. Fremland, St. Paul, CUM LAUDE
Joseph John Gaertner, St. Paul

James Edward Galbraith, St. Paul
 Charles Northam Gamble, Albert Lea
 Margaret Louise Garborg, Minneapolis
 Chester Alfred Gebert, Princeton
 Walter Floyd Geisinger, Minneapolis
 Cynthia Cornwell Gilbert, St. Paul,
 MAGNA CUM LAUDE
 Samuel Dupuy Goza, III, Helena,
 Mont.
 Else Frieda Greulich, Minneapolis,
 MAGNA CUM LAUDE
 Claire Jevon Gudim, Minneapolis
 Roberta Beatrix Haley, St. Paul
 Wilma Jean McCutcheon Hals, St.
 Paul
 Robert Lee Hamlett, A.A., St. Paul
 Eleanor Else Hanson, Minneapolis
 Herbert Junior Hanson, Pequot Lakes
 Janet Hayes, Minneapolis
 Ruben Edwin Heckenlaible, Rochester
 Glenn George Heckman, St. Paul
 Bernard John Heetderks, Jr., Bozeman,
 Mont.
 James Herman Hiner, Minneapolis,
 MAGNA CUM LAUDE
 Floyd Benjamin Holt, Anoka
 Harriet Douw Holt, Minneapolis
 Edward Louis Howard, Wayzata
 Janet Schlick Hoy, St. Paul
 Clement Earl Hunter, Minneapolis
 Robert Joseph Jameson, Excelsior
 Florence Louise Johnson, Minneapolis
 Marjorie Jeanette Johnson, Minne-
 apolis
 Marilyn Kaufman, Minneapolis
 Frank Julian Keller, Long Lake
 Byron Walter Kisner, Minneapolis
 Geraldine Louise Kistler, Minneapolis
 Kenneth Roger Knutson, Rapid City,
 S.D.
 Albert Edwin Lasman, St. Paul
 DeLoris Jeanne Leander, A.L.A.,
 Princeton
 John Ronald Ledin, North Branch
 Madge Elizabeth Loranger, A.A., Vir-
 ginia
 Margaret Joyce MacInnes, Minne-
 apolis, SUMMA CUM LAUDE
 Rita Sharon Mack, St. Paul
 Philip Richard MacTaggart, Minne-
 apolis

Joyce Ellen Mallinger, Ball Club
 Reynold W. Malmer, Winthrop
 Jeanne Faith Martin, Minneapolis
 Helen Lorraine Matson, A.L.A.,
 Princeton
 Beatrice Rose McCann, Minneapolis
 Robert John McGovern, Minneapolis
 Calvin Ainsworth Merriman, Minne-
 apolis
 Leona Marcella Milashius, St. Paul,
 MAGNA CUM LAUDE
 Lester Walter Milbrath, Bertha,
 MAGNA CUM LAUDE
 Marilyn Erickson Mitchell, Minne-
 apolis
 Henry Joseph Morrison, Jr., St. Paul
 Richard Bruce Murray, St. Paul
 Rudolph Charles Muska, St. Paul
 Arsinne June Nakashian, St. Paul
 Russell Arthur Nelson, Minneapolis
 Robert Frederick New, Minneapolis
 Thomas Walter Nielsen, A.L.A., Bis-
 marck, N.D.
 Carl Oscar Olson, St. Paul
 Stanley Warren Olson, A.A., Cokato
 Marjorie Beth Paulson, A.L.A., Minne-
 apolis
 Philip Waldo Peterson, Minneapolis
 Calvin Fred Probst, Seattle, Wash.
 Charles Gerald Quinn, St. Paul,
 MAGNA CUM LAUDE
 Myrtle Eilene Rueger, Minneapolis
 James Jay Ryan, III, St. Paul
 Robert Charles Sauer, Hokah
 Vernon Silverman, A.A., Minneapolis
 Amie Marie Strom, Dawson
 Walter Kellogg Thorsell, St. Paul
 Walter Arthur Tofteland, Luverne,
 MAGNA CUM LAUDE
 Robert Clayton Voth, St. Paul
 Kermit John Wallin, Minneapolis
 Robert Raymond Weisel, Minneapolis
 Frederick Porter Wheeler II, Wayzata
 Alvin Vane White, Forest Lake
 George LeRoy Willey, Warren
 Robert Dan Williams, St. Paul
 Alfred Willstatter, A.A., St. Paul
 Marvin Wesley Winchester, Minne-
 apolis
 Clark Dolan Wold, Hibbing
 Donald Leslie Zamjahn, Minneapolis

Bachelor of Science

Fernanda Malmin Daniels, Minne-
apolis

William George McCarthy, Minne-
apolis

Bachelor of Science in Library Science

Bernadine Norum Chapman, B.A.,
Minneapolis

Robert Joseph Jameson, Excelsior

UNIVERSITY COLLEGE

Bachelor of Arts

Rodney Stuart Dickey, Sioux Falls,
S.D.

James Warren Duff, St. Paul

Thomas Roger Dunphy, Brainerd

Robert Leo Koch, St. Paul

Amos Rosenbloom, Minneapolis

James Anthony Rust, Minneapolis

Bachelor of Science

Roy Alan Sather, Blair, Wis.

James Alexander Smith, Harvey, N.D.

John Gerritt Van Campen, Minne-
apolis

INSTITUTE OF TECHNOLOGY

Bachelor of Science

George Robert Remarcke, Minneapolis, WITH DISTINCTION

Bachelor of Aeronautical Engineering

Casimir James Frozina, St. Paul

Vernon Ordie Loveless, Minneapolis

Robert David McDonald, Minneapolis

*Quenten A. Riepe, Minneapolis, WITH
DISTINCTION*

*John Edmund Todnem, Mankato,
WITH DISTINCTION*

Bachelor of Agricultural Engineering

Norman Meir Bergstein, Duluth

William Douglas Churchill, St. Peter

Neil George Fredrickson, Shevlin

Demeter Gawreluk, Baudette

Wayne Donald Jacobson, Glenwood

*Arthur Ervin Kvamme, Ada, WITH
DISTINCTION*

Ardell Myrle Larsen, Stickney, S.D.

Charles Seivert Malwick, Duluth

*Vernon Milo Meyer, Kilkenny, WITH
DISTINCTION*

Allen Jean Moe, Boyd

Bachelor of Architecture

Richard James Rafferty, St. Paul

Kenneth Leroy Skold, Milaca

Roscoe Paul Thorpe, Winona

*John Carl Tilleman, Green Bay, Wis.,
WITH DISTINCTION*

Bachelor of Chemical Engineering

Keith Wesley Anderson, Hutchinson
Indra Kumar Arora, B.Sc., Jodhpur,
India
John Albert Clint, New Boston, Ill.

Clayton Russell Johnson, Bloomington
James Allen Kruse, Minneapolis
Robert Clark Wilson, Minneapolis

Bachelor of Chemistry

Keith Bernhard Bailey, St. Paul, WITH
DISTINCTION
James Edward Butterfield, Jr., Ex-
celsior

John William Cretzmeyer, Minne-
apolis
Ernest Aleck Robbins, Boy River,
WITH HIGH DISTINCTION

Bachelor of Civil Engineering

Robert Burdette Cook, Redwood Falls
Bernard Leo Grubisch, Owatonna
LeRoy Arnold Karjala, Menahga

Howard Burton Loomis, Jr., Minne-
apolis
Jerome George Theisen, Minneapolis

Bachelor of Electrical Engineering

Charles Russell Backes, Minneapolis
Robert Bruce Bagby, Ortonville
Charles Burton Barnett, Minneapolis
Vernon Alton Baxter, Jr., Hopkins
Robert Dean Bidne, Medford
Arthur George Bissonette, Mapleton
Robert LeRoy Bonde, Nerstrand
John Carl Brnetich, Newberry, Mich.
Gordon Whitney Cleaveland, Minne-
apolis
Allyn Webb Cooksey, Geary, Okla.
John Arlo DePoy, South St. Paul
Duane Glenn Engle, Minneapolis
Edward Ferkul, Gilbert
Charles Walter Gauger, St. Paul
Donald Leroy Gustafson, Minneapolis
John Harold Halling, Minneapolis
John Andrew Holmquist, Ortonville,
WITH DISTINCTION

Mark Lucius Hunt, Bricelyn
George David Johnson, Minneapolis
Robert Lee Knox, St. Paul, WITH
DISTINCTION
Jack Korthof, Spooner, Wis.
Marvin Wesley Miller, Minneapolis
Orville Clayton Oberg, Minneapolis
Richard Joseph Stish, Chisholm
John Robert Svegal, South St. Paul
Harold Arno Tonstad, St. Paul
Robert Delroy Vick, Alliance, Ohio
Paul Leonard Waldon, Minneapolis
Walter David Walker, Minneapolis
Earl Harder Wennberg, Minneapolis
Donald Carl Witt, Minneapolis
Jack Wong, Minneapolis
Donald LeRoy Yungner, Minneapolis

Bachelor of Geological Engineering

Eugene Archibald Hickok, Minneapolis

Bachelor of Mechanical Engineering

Lowell Adair Alfson, Minneapolis
Richard Williams Anderson, Minne-
apolis

Warren Thomas Benoy, Forest Lake
David Thomas Blazevic, Duluth
Herbert Arthur Bly, Mound

Thomas William Boland, St. Paul
 Ellsworth Washington Brown, Winthrop
 Leo Frank Burger, West St. Paul
 Carl Herbert Carlson, St. Paul, WITH DISTINCTION
 Bruce Kout Carpenter, Windom
 Robert Eugene Davies, Brainerd
 Ralph Enzmann, International Falls
 Robert Joseph Flicek, New Prague
 John Seymour Fowler, St. Paul
 Thomas William Freeman, Minneapolis
 Stephen Palmer Hicks, Pipestone
 Victor Conrad Johnson, St. Paul
 James Harold Keel, Dadeville, Ala.
 Robert Asa Kimball, Minneapolis
 Leslie Keith Martin, Bovey
 Robert Edward Nordstrom, Minneapolis
 Gordon Weinstein Nygren, Minneapolis

Richard William Pearson, Minneapolis
 Gordon Edward Peterson, Minneapolis, WITH HIGH DISTINCTION
 Eugene Glenn Philipson, Sleepy Eye
 Paul Norbert Rick, Minneapolis
 Matt Henry Riesgraf, Carver
 Gene Arthur Rowland, Wisconsin Rapids, Wis.
 Elsworth Lionel Saldin, Dawson
 Edward Emile Sebesta, Minneapolis
 Charles Francis Spanel, B.B.A., Eau Claire, Wis.
 Paul Lynwood Tveite, Albert Lea
 Robert Harold Verness, St. Paul
 Orville Walter Wahtera, Cloquet
 Leonard Elmer Wesendorf, B.Aero.E., Austin
 Charles Fred Wetter, Jr., St. Paul
 Eugene George Zaborowski, Eau Claire, Wis.

Bachelor of Metallurgical Engineering

Richard Eugene Fisher, St. Paul

Bachelor of Mining Engineering

Clifford Wendell Niemi, Bovey
 Harold Robert Olson, St. Paul

George Robert Remarcke, Minneapolis, WITH DISTINCTION

Bachelor of Petroleum Engineering

Frank Joseph Gores, St. Paul

COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE

Bachelor of Science

Arch Ferguson Alexander, Minneapolis, Veterinary Medicine, WITH HIGH DISTINCTION
 William Bailey Alexander, St. Paul, Agriculture
 Bonnie Phoebe Anderson, Minneapolis, Home Economics
 Harold William Bartz, McIntosh, Agriculture
 Floyd Humble Bellin, Jr., North Branch, Agriculture

Allan G. Benjamin, Hutchinson, Agriculture
 Zona Jeannene Kimble Berry, St. Paul, Home Economics
 Robert Leray Bourdage, Deer River, Agriculture
 Charles Warren Carter, Jr., Walnut Grove, Agriculture, WITH HIGH DISTINCTION
 John David Chapin, Dodge Center, Agriculture

- Harold Carl Christiansen, St. Paul, Forestry
- Harold Wayne Coates, Eveleth, Forestry, WITH DISTINCTION
- Philip Forrest Corson, Millbrae, Calif., Forestry
- Kenneth Douglas Crane, Fedora, S.D., Agriculture
- Wilbur John Dahl, Waseca, Forestry
- Robert Richard DeLaMartre, St. Paul, Forestry
- Delores Marie DeWitt, Shevlin, Home Economics, WITH DISTINCTION
- Raymond Theodore Diedrick, Albert Lea, Agriculture
- Edwin Lyman Doty, Rochester, Agriculture
- Stanley Eugene Drewry, St. Charles, Agriculture, WITH DISTINCTION
- Ardith Onahlee Orr Erickson, Minneapolis, Home Economics
- Robert Emmett Fitzgerald, St. Paul, Agriculture
- Edward George Fleming, Jr., Hastings, Forestry
- Barbara Ann Gesell, A.A., St. Paul, Home Economics
- Norma Jean Case Groth, A.A., Minneapolis, Home Economics
- Lowell Dennis Hanson, Winthrop, Agriculture
- Edwin J. Haslerud, Fargo, N.D., Forestry
- Joanne Carol Hinquist, Winthrop, Home Economics
- Charles Alfred Hobbs, Taylors Falls, Agriculture
- Earl Harry Huber, Rochester, Fish and Wildlife Management
- Gaylord Emory Johansen, Minneapolis, Fish and Wildlife Management
- Wallace Henery Johnson, Newfolden, Agriculture
- George Hilary Kinney, Osseo, Forestry
- Keith Willis Kinney, Wells, Forestry
- Paul Raymond Kipp, St. Paul, Forestry
- Clayton J. Knutson, Foley, Fish and Wildlife Management
- Marvin Walter Kottke, Glencoe, Agriculture
- Wayne Wesley Luchsinger, Milaca, Food Technology
- Janet Louise Martinson, St. Paul, Home Economics
- Evelyn Jeanne McClean, Minneapolis, Home Economics
- James Thomas McNary, St. Paul, Agriculture
- Duane Bert Melling, Vesta, Agriculture
- Wayne D. Oliver, St. Paul, Forestry
- James Christian Otto, Sauk Rapids, Agriculture
- Joseph Francis Pershern, Gilbert, Fish and Wildlife Management
- Arlo Alfred Peterson, St. James, Forestry
- Robert Lee Prausa, St. Paul, Forestry
- Earl Francis Rath, Newport, Agriculture
- Daniel Peter Remington, Hibbing, Forestry, WITH HIGH DISTINCTION
- Judd Charles Rostron, St. Paul, Agriculture
- Carol Joyce Sanzenbach, Minneapolis, Home Economics
- Lester John Schafer, Buffalo Lake, Agriculture
- Richard Warren Shiely, St. Paul, Forestry
- William James Sliney, Jr., Duluth, Forestry
- Richard John Stucky, Faribault, Agriculture
- Paul Arthur Sundin, Lake Lillian, Forestry
- Dale Emerson Sutherland, Minneapolis, Fish and Wildlife Management
- John Robert Tester, Gibbon, Fish and Wildlife Management, WITH DISTINCTION
- Charles Philip Thomas, Frazee, Agriculture
- Orvin Arnold Tveit, Kiester, Forestry
- Wilfred Norman Waisanen, Moose Lake, Agriculture
- Evert Bernhard Wickstrom, Minneapolis, Forestry
- Howard Dale Woon, St. Paul, Fish and Wildlife Management

Master of Forestry

Miron Lee Heinselman, B.A., B.S.,
St. Paul

Richard Melville Marden, B.S., Spearfish, S.D.

John Donald Meyer, B.S., Princeton

COLLEGE OF EDUCATION

Bachelor of Science

Berton Maurice Atkinson, Minneapolis

Katherine Ball, Sayre, Pa., WITH HIGH DISTINCTION*

Irving Henry Balow, Wabasha

Marjorie Swenson Berglund, Brooten

David S. Bowe, Minneapolis

Edwin Monroe Broughton, Jr., Minneapolis

Arlys Dariel Burgstahler, Glencoe, WITH DISTINCTION*

Joy Saxon Butuin, A.A., St. Paul

Evert Arnold Carlson, Minneapolis

George John Collias, Minneapolis

Beverly Jayne Cornelius, Minneapolis, WITH DISTINCTION

Gladys Eleanor Dvorak, Seattle, Wash., WITH DISTINCTION*

Frances Johanna Eischens, New Prague*

Kathryn Dagmar Engberg, Faribault

Mark Keller Engel, Crosby, WITH DISTINCTION

Helen Linnea Erickson, Minneapolis, WITH HIGH DISTINCTION*

Charles Raymond Faes, Minneapolis

John Charles Garry, B.B.A., Marshall

Thomas Patrick Gleason, St. Paul

Joan Felt Newman Hamre, Minneapolis

Eugene Lincoln Hanson, Minneapolis

Gaius Edward Harmon, Jr., St. Paul

Richard Anthony Heeb, Minneapolis

Peter Coolidge Hendry, Minneapolis

Robert Byron Hosking, Minneapolis

Mary Sue Kern, Earlville, Ill., WITH HIGH DISTINCTION*

Esther M. Welch Komonti, Miller, S.D.*

Walter Roger J. Kozub, Minneapolis

Elizabeth Lou Krueger, B.S., Red Lake Falls

Frances Irene Lay, Walhalla, S.C., WITH HIGH DISTINCTION*

Richard Joseph Lecuyer, Minneapolis

June Ruth Leirich, North St. Paul

Eunice Byrne Lerum, Mankato

Marian Caroline Letson, South St. Paul, WITH DISTINCTION

Donald Alfred Loken, Minneapolis

Carol Pauline Macey, St. Paul

Richard Lyle McFeters, Minneapolis

Donald William McMoore, Minneapolis

Robert Allen Mealey, A.A., Minneapolis

Charles Wayland Mettler, Minneapolis

Judith Mirviss, Milwaukee, Wis.

†Jack Wilson Morse, Robbinsdale

Clarence Edward Mueller, LeSueur, WITH DISTINCTION

Floyd Earl Mueller, LeSueur

Thomas Robert Mullaney, Red Wing

Jessie Pansy Nigh, Ralston, Okla., WITH DISTINCTION*

Carl Godfred Olson, A.A., Wayzata, Mass.

Phyllis Marie Pearson, Lyle, WITH DISTINCTION

Betty Marion Petersen, Racine, Wis.*

John Wesley Petlon, Minneapolis

Mary Porianda, Minneapolis, WITH DISTINCTION

Joy Phyllis Ramlo, Marshall

William Albert Rouch, Jr., A.A., Minneapolis

Richard Thomas Scanlan, St. Paul, WITH DISTINCTION

James William Scheu, Minneapolis

* Nursing Education Curriculum.

† Degree conferred as of December 21, 1950.

Lawrence Delmar Schmidt, St. Paul
Anita Betty Schwartz, A.A., Minneapolis
Edward William Sewell, A.A., Minneapolis
Doris Joan Snyder, International Falls
Fern Estelle Stahn, Morris
Patricia Anne Carlson Stendal, Minneapolis, WITH DISTINCTION

Ann Cosgrove Warner, Minneapolis,
WITH DISTINCTION
Donald Waryan, A.A., Minneapolis
Lois Grapp Weigand, Minneapolis
Norman William Welch, St. Paul
Marvin Dale Willey, Warren
Dorothy Joan Williams, Minneapolis,
WITH DISTINCTION*

Master of Education

Donald Charles Adamson, B.S.,
Montevideo
Marguerite Odendahl Krusemark, B.S.,
St. Paul

Frank S. Menagh, B.S., Hoopston, Ill.
Thomas John Thompson, A.A., B.S.,
Minneapolis

COLLEGE OF EDUCATION AND COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE

Bachelor of Science

Justin James Feucht, Hillman, Agricultural Education
George Robert Fisher, Eagle Bend, Agricultural Education
Logan Arthur Grant, Jr., Wyoming, Agricultural Education
Charles Edward Lofgren, Moose Lake, Agricultural Education
Dale William Magnuson, White Rock, S.D., Agricultural Education

Wallace James McKay, Brainerd, Agricultural Education
Carolyn Anne Poss, Franklin, Home Economics Education
Vernon Otto Richter, St. Paul, Agricultural Education
LaDonna Mae Rouillard, Rogers, Home Economics Education
Jean Dorothy Spaulding, Minneapolis, Home Economics Education

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Joseph Ambrose Anderson, Ceylon
Robert John Anderson, Minneapolis
Olaf Arthur Bakk, Minneapolis, WITH HIGH DISTINCTION
Donald Scoville Bates, Minneapolis
Anthony Paul Battaglia, Minneapolis
Joanna Brown, Minneapolis
Donald Dean Danielson, St. Paul
Benjamin Franklin Day, Chicago, Ill.
William Beaupre Eldredge, Jr., St. Paul
Richard Melville Enstad, Minneapolis

Donald Lee Eschner, Minneapolis
Charles William Fraatz, Spooner, Wis.
Russell Leonard Gleason, Minneapolis
Robert Wayne Gunderson, Blue Earth, WITH HIGH DISTINCTION
George Harold Hall, Minneapolis
Howard John Hammes, Wabeno, Wis.
Kei Duane Harada, Minneapolis
Eugene Robert Hillstrom, St. Paul
Elmer Leonard Kuhlman, Hardwick
James Richard Larson, Minneapolis

* Nursing Education Curriculum.

Kenneth LeRoy Larson, South St. Paul
 John Arthur Lindquist, Minneapolis
 Thomas Oliver Maetzold, Red Wing
 Donald Hume McKay, St. Louis Park
 Merlyn Melvin Miller, Tyler, N.D.
 Roy J. Mordaunt, Jr., St. Paul
 Ralph Edmond Mullen, Minneapolis
 Daniel Henry Mundt, Shawano, Wis.
 Russell Edward Myrom, B.S.L., Cambridge
 Kermit Arnold Ness, Hibbing
 Albert Landry Nienaber, Jr., St. Paul
 John Arthur Olson, St. Paul
 John Ernest Olson, St. Paul
 Robert Glenn Olson, Minneapolis
 Joseph Richard Palmer, St. Paul
 Clair Alton Peterson, Minneapolis,
 WITH HIGH DISTINCTION
 John Peter Peterson, Minneapolis,
 WITH DISTINCTION

Stanley Theodore Peterzen, Little Falls
 Eugene Jerome Potthoff, St. Cloud
 Russell Arthur Rose, A.L.A., Rochester
 Max Alex Rotenberg, Minneapolis
 Marshall Rotstein, St. Paul
 Robert Dewey Schaible, St. Paul
 Lars Clarence Schultz, St. Louis Park
 Thomas Edward Simpson, Minneapolis
 Robert Daryl Strathy, Minneapolis
 Glenn Warren Swanson, Enfield
 *John Alfred Thomasberg, Minneapolis
 Kenneth Lloyd Thompson, Amboy
 Kenneth Roger Thompson, Moorhead
 Marvin Bergh Trehus, Spring Grove
 Phyllis Carmen Ulrickson, Deerwood,
 WITH HIGH DISTINCTION
 John William Vierling, Minneapolis
 Vladimir Walter Vranesh, Hibbing
 Richard Winkley Wiessner, St. Paul

SCHOOL OF BUSINESS ADMINISTRATION AND COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE

Bachelor of Agricultural Business Administration

Robert William Knott, Raymond

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Murry Calvin Ewalt, Mankato

Curtis Elwyn Tessum, Preston

LAW SCHOOL

Bachelor of Science in Law

Dana George Allen, Minneapolis

Robert Anthony Gearin, St. Paul

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Leona Jean Baker, Wayzata, Occupational Therapy
 Winifred Fox Bradford, R.N., Toledo, Ohio, Public Health Nursing

Virginia A. Culver, Laceyville, Pa., Public Health Nursing
 Laura Theresa Elsen, Delano, Public Health Nursing, WITH DISTINCTION

* Degree conferred as of December 21, 1950.

Meta Jensine Greinke, Racine, Wis.,
Public Health Nursing
Vivian Adele Harriman, B.Ed., M.A.,
G.N., Eleva, Wis., Public Health
Nursing, WITH HIGH DISTINCTION
Alma Bishop Harvey, Minneapolis,
Public Health Nursing
Bette Gertrude Joughin, G.N., Ke-
lowna, Canada, Public Health
Nursing

Ruth Marie Lender, Minneapolis, Oc-
cupational Therapy, WITH DISTINC-
TION
Shirley Gwendolyn Lindstrom, R.N.,
Duluth, Public Health Nursing
Barbara Anne Ryan, Minneapolis, Oc-
cupational Therapy

Master of Public Health

Florence Augusta Beasley, B.A., At-
lanta, Ga.
Wallace C. Fulton, B.A., Minneapolis

Heide L. Henriksen, B.S., Minneapolis
M. Estelle Hunt, B.S., Woonsocket,
R.I.

GRADUATE SCHOOL

Master of Arts

Hans Christian Aarsleff, Rungstad,
Kyst, Denmark
B.A. '45, University of Copenhagen. Field of
Concentration: English.

Inest Russell D. Anderson, Delavan
B.A. '42, Gustavus Adolphus College. Field of
Concentration: Educational Administration.

Stephen Hunt Archer, St. Paul
B.A. *cum laude* '49, University of Minnesota.
Field of Concentration: Economics.

Mary Ann Smith Armstrong, Minne-
apolis
B.A. '48, University of Minnesota. Major:
Child Welfare. Minor: Psychology. Thesis: A
Study of Children's Responses to Animal and
Human Figures in Thematic Pictures.

Curtis Leon Austin, Duluth
B.S. '48, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Carolyn A. Banner, Langston, Okla.
B.S. '49, Langston University. Field of Con-
centration: Curriculum and Instruction.

Dorothy Bumann Blalock, Cloquet
B.S. '49, Stephen F. Austin State Teachers
College. Field of Concentration: Economics.

Jack Cameron Borland, Winnipeg,
Manitoba, Canada
B.A. in Honours Course '48, University of
Manitoba. Field of Concentration: English.

David Millard Brown, Fergus Falls
B.S. '41, North Dakota Agricultural College.
Field of Concentration: Educational Adminis-
tration.

Elizabeth Gifford Burr, St. Paul
B.A. '25, Smith College. Field of Concen-
tration: Psychology.

Darcie Emmett Byrn, Redfield, S.D.
B.S. '49, South Dakota State College of Agri-
culture and Mechanic Arts. Major: Sociology.
Minor: Agricultural Economics. Thesis: Edu-
cation as a Selective Factor in the Minnesota
Rural Urban Migration Pattern, 1935-40.

Rosalie Ann Calindo, St. Paul
B.A. '47, Macalester College. Field of Con-
centration: Zoology.

Roy Ernest Carter, Jr., Ulysses, Kan.
B.A. '48, Fort Hays Kansas State College.
Field of Concentration: Journalism.

Edward Francis Clark, New York,
N.Y.
B.A. *cum laude* '38, Georgetown University.
Field of Concentration: Educational Adminis-
tration.

Theodore William Clymer, Minne-
apolis
B.S. '49, River Falls State Teachers College.
Field of Concentration: Educational Psy-
chology.

Carolyn Curtis, Sioux City, Iowa
B.A. '49, Mount Holyoke College. Field of Concentration: History.

Albert Stanley Dreyer, Brooklyn, N.Y.
B.A. *cum laude* '49, Brooklyn College. Major: Child Welfare. Minor: Psychology. Thesis: The Recognition of Body Silhouettes by Kindergarten Children: Self and Social Correlates.

Harold Robert Finseth, Underwood
B.S. with distinction '48, University of Minnesota. Field of Concentration: Industrial Education.

Gerald Marshall Fort, Sioux Falls, S.D.
B.A. '41, Grinnell College. Field of Concentration: Educational Psychology.

Richard Myron Gollin, Far Rockaway, N.Y.
B.A. '49, Queens College. Field of Concentration: English.

Gordon Barry Greb, San Leandro, Calif.
B.A. '47, University of California. Major: Journalism. Minor: Psychology. Thesis: Freedom of the Movies in Presenting News and Opinions.

Wayne Douglas Hanson, Amery, Wis.
B.S. '41, Superior State Teachers College. Field of Concentration: Educational Administration.

Leo Paul Hartig, Minneapolis
B.A. '48, University of Minnesota. Field of Concentration: Speech.

Donald Joseph Hogan, New York, N.Y.
B.A. '49, Queens College. Field of Concentration: English.

Oliver E. Hoyum, Chisholm
B.S. '40, University of Minnesota. Field of Concentration: Educational Administration.

Reginald deKoven Hudson, Mill Neck, N.Y.
B.A. '41, Princeton University. Field of Concentration: History.

Robert Franklin Jacobsen, Stillwater
B.S. in Law '48, B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Marvin Petersen Jessen, Askov
B.A. *cum laude* '49, University of Minnesota. Field of Concentration: Zoology.

Kathlyn E. Johnson, Minneapolis
B.A. '41, University of Minnesota. Field of Concentration: Social Work.

Warren Edward Johnson, Minneapolis
B.A. *magna cum laude* '47, University of Minnesota. Field of Concentration: Spanish.

John Seedoff Kendall, Minneapolis
B.A. *cum laude* '49, Gustavus Adolphus College. Field of Concentration: Educational Psychology.

Jan Roelof Klinkert, Rotterdam, The Netherlands
B.A. '48, University of California. Major: Journalism. Minor: Political Science. Thesis: The Second Netherlands' Military Action against the Republic of Indonesia as Reported in the World Press.

William Roger Knieval, St. Paul
B.A. '48, University of Minnesota. Field of Concentration: Psychology.

Kenneth McElrath Koch, St. Paul
B.A. '26, Hamline University. Field of Concentration: Educational Administration.

Marianne Esther Kornfeld, Medina, Ohio
B.A. '48, Fenn College. Field of Concentration: Child Welfare.

Barbara Helen Lagerstedt, Montevideo
B.A. *magna cum laude* '48, University of Minnesota. Major: Sociology. Minor: Social Work. Thesis: An Investigation of Personality and Attitudinal Changes in Three SPAN Groups.

Gieh-lin Li, Wuchow, Kwangsi, China
B.A. '43, Ginling College. Field of Concentration: English.

Donald Robert Lincoln, Minneapolis
B.S. '50, University of Minnesota. Field of Concentration: Industrial Education.

Ruthann Loew, Kenosha, Wis.
B.A. '48, Wheaton College. Field of Concentration: German.

Celia Logan, Menahga
B.S. with distinction '38, University of Minnesota. Field of Concentration: Educational Psychology.

James Markham Lufkin, St. Paul
B.A. '47, University of Minnesota. Field of Concentration: English.

Robert Alexander Macdonald, Duluth
B.A. *magna cum laude* '47, University of Minnesota. Field of Concentration: Political Science.

Thomas Mayo Magoon, Minneapolis
B.A. '47, Dartmouth College. Field of Concentration: Psychology.

Robert Lindy McCornack, Moline, Ill.
B.A. '49, State University of Iowa. Field of Concentration: Psychology.

Richard Stanley Melton, Minneapolis
B.A. '48, Gustavus Adolphus College. Field of Concentration: Psychology.

*Vincent Russell Murphy, Felton
B.S. '40, Moorhead State Teachers College. Field of Concentration: Speech.

Arthur Edward Nelson, St. Paul
B.A. '50, College of St. Thomas. Field of Concentration: History.

Ferdinand Roy Ohnsorg, St. Paul
B.A. *cum laude* '47, College of St. Thomas. Field of Concentration: Mathematics.

Alden Conrad Olson, Minneapolis
B.B.A. with distinction '49, University of Minnesota. Field of Concentration: Economics.

Kenneth George Olson, Minneapolis
B.A. '49, University of Minnesota. Major: Political Science. Minor: History. Thesis: Communism in Czechoslovakia: A Study in Consolidation Propaganda.

Catherine Adelaide Palmer, Minneapolis
B.A. '48, College of St. Catherine. Field of Concentration: Art.

Noel Edward Parmentel, Jr., New Orleans, La.
B.A. '49, Tulane University. Field of Concentration: American Studies.

Neville Pershing Pearson, Wheaton
B.A. '39, Gustavus Adolphus College. Field of Concentration: Curriculum and Instruction.

Eugene Reed Perkins, Paynesville
B.S. '47, St. Cloud State Teachers College. Field of Concentration: Educational Psychology.

Jean Ueland Pile, Minneapolis
B.S. *magna cum laude* '49, University of Minnesota. Field of Concentration: English.

Truman Addison Potter, Minneapolis
B.A. '47, University of Minnesota. Major: Political Science. Minor: Philosophy. Thesis: The Political Ideas of Sidney Hook.

* Degree dated as of June 10, 1950.

Robert William Powers, Roundup, Mont.
B.A. '48, University of Minnesota. Field of Concentration: Political Science.

Arline E. Reetz, Minneapolis
B.S. '46, University of Minnesota. Field of Concentration: Educational Psychology.

Alan Russell Robb, Redwood City, Calif.
B.A. '48, University of California. Field of Concentration: Speech.

Herbert William Samenfeld, Minneapolis
B.A. '49, Drew University. Field of Concentration: Psychology.

James Patrick Shannon, St. Paul
B.A. *summa cum laude* '41, College of St. Thomas. Field of Concentration: English.

Robert MacGregor Shaw, International Falls
B.A. '49, University of Minnesota. Field of Concentration: Journalism.

Jacob Oliver Sines, Reno, Nev.
B.A. '49, University of Minnesota. Field of Concentration: Educational Psychology.

Eldon Lloyd Stevens, Brainerd
B.A. '48, University of Minnesota. Major: Philosophy. Minor: History. Thesis: The Kierkegaardian Concept of History: An Analysis of the Thought of Kirkegaard as It Is Related to the Meaning of History.

Emil Keith Swanson, Dunnell
B.A. '49, Gustavus Adolphus College. Field of Concentration: Geology.

Alfred Earl Tomlinson, Lima, Ohio
B.A. '48, University of California. Field of Concentration: Journalism.

Frederick William Trabold, Jr., Wrightstown, Pa.
B.A. '47, Union College. Field of Concentration: Psychology.

Joseph Francis Turley, Boston, Mass.
B.A. '50, Harvard College. Field of Concentration: Economics.

Luverne Arthur Wedell, Ellendale, N.D.
B.S. '48, University of Minnesota. Field of Concentration: Industrial Education.

Koldny Wedingsen, Trondheim, Norway
Graduate '46, Nesna Teachers College. Field of Concentration: Curriculum and Instruction.

Gerald O. Wendt, Morgan
B.B.A. '48, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Kenneth Whitaker, Denver, Colo.
B.A. '48, University of Colorado. Field of
Concentration: Journalism.

John Spencer White, River Falls, Wis.
B.A. '47, University of Minnesota. Field of
Concentration: Mathematics.

Eugene Anthony Zierhut, Minne-
apolis
B.B.A. '48, University of Minnesota. Field of
Concentration: Economics.

Master of Business Administration

Jerome Belsky, Cliffside Park, N.J.
B.S. in Mech.E. '40, University of Michigan;
M.S. in Mech.E. '50, University of Minne-
sota. Field of Concentration: Business Ad-
ministration.

Richard Phillip Daly, St. Paul
B.E.E. '49, University of Minnesota. Field of
Concentration: Business Administration.

Burke Percy Watson, Minneapolis
B.B.A. '49, University of Minnesota. Field of
Concentration: Business Administration.

Master of Science

Beth Sinclair Berry, Lansing, Mich.
B.A. '45, Rockford College. Field of Con-
centration: Biostatistics.

Baruch Blum, Zickroj, Yaacov, Israel
B.A. '48, University of Minnesota. Field of
Concentration: Pharmacology.

Robert Lee Butler, Minneapolis
B.A. '40, Park College; B.S. '48, University
of Minnesota. Major: Economic Zoology.
Minor: Botany. Thesis: The Age and Rate of
Growth of the Sheephead, *Aplodinotus grun-
niens Rafinesque*, in the Upper Mississippi
River Navigation Pools.

Edward Harold Coe, Jr., Duluth
B.S. with distinction '49, University of Min-
nesota. Major: Plant Genetics. Minor: Agri-
cultural Biochemistry. Thesis: Studies on the
Pigments Differentiating Purple and Red
Aleurone Tissue in Maize.

Seymour Roger Cray, Chippewa Falls,
Wis.

B.E.E. with high distinction '49, University
of Minnesota. Field of Concentration: Mathe-
matics.

Michel Armand DuBois, Tauxigny,
(Indie et Loire) France
Graduate '47, University of Paris. Major: Agri-
cultural Biochemistry. Minor: Chemical Engi-
neering. Thesis: Water-Soluble Carbohydrates
of the Wheat Germ.

Ardelle Fish, St. Paul
B.A. cum laude '46, B.S. '47, Macalester
College. Major: Physiological Chemistry.
Minor: Anatomy. Thesis: The Quantitation
of Small Amounts of Nucleic Acids in Tissues.

Kenneth Bertrum Freeman, Minne-
apolis
B.S. with distinction '49, University of Min-
nesota. Field of Concentration: Dairy Hus-
bandry.

Clell Bernard Hartley, Minneapolis
B.S. '49, University of Minnesota. Major:
Dairy Husbandry. Minor: Agricultural Bio-
chemistry. Thesis: A Study of the Micro-
flora of Blue (Roquefort-Type) Cheese Slime.

Clarence Anthony Hoffman, Wausau,
Wis.

B.S. '48, St. Mary's College. Major: Agri-
cultural Biochemistry. Minor: Physical Chem-
istry. Thesis: Osmotic Pressure Studies of
Native and Heat Denatured Beta-Lactoglobulin.

Joseph Lloyd Keogh, South St. Paul
B.S. '48, College of St. Thomas. Major:
Soils. Minor: Agronomy. Thesis: Cobalt in
Some Minnesota Soils and Grasses.

Janet Deutsch Leaf, Minneapolis
B.A. magna cum laude '46, University of
Minnesota. Field of Concentration: Plant
Genetics.

Frank Moser, Winnipeg, Manitoba,
Canada

B.S. in Honours Course '49, University of
Manitoba. Field of Concentration: Physics.

John Glenn Schnizlein, Jr., Downers
Grove, Ill.

B.S. '46, University of Illinois. Major: In-
organic Chemistry. Minor: Physical Chemistry.
Thesis: Study of Rotatory Dispersion of Cer-
tain Cobalt (III) Complex Compounds.

Harold Lewis Segal, Minneapolis

B.S. '47, Carnegie Institute of Technology. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: A Study of the 2,4-Dinitrophenylhydrazine Derivatives of Dehydroascorbic Acid and Other Carbonyl Compounds.

Arthur Elton Sethre, Minneapolis

B.S. '48, St. Olaf College. Major: Anatomy. Minor: Physiology. Thesis: Effects of Hormones and Thiouracil upon the Thyroid of the Fetus.

Sister Mary Clarus Strouth, Winona

B.A. '42, College of Saint Teresa. Field of Concentration: Inorganic Chemistry.

William James Turnock, Winnipeg, Manitoba, Canada

B.S.A. '49, University of Manitoba. Major: Entomology. Minor: Forestry. Thesis: Some Aspects of the Biology of the Pitch Nodule Maker, *Petrova albicapitana* (Busck).

Dolores Gene Tyson, St. Paul

B.S. '42, University of Minnesota. Field of Concentration: Home Economics.

Margaret Louise Whelan, Minneapolis

B.A. cum laude '47, University of Minnesota. Major: Bacteriology. Minor: English. Thesis: The Pathogenic and Immunogenic Properties of Group A Streptococci Grown in vivo.

Perman Eugene Williams, Leesburg, Fla.

B.S. '35, Florida Agricultural and Mechanical College. Field of Concentration: Agricultural Education.

Madolyn Evelyn Youse, Baxter Springs, Kan.

B.Chem. '47, University of Minnesota. Major: Analytical Chemistry. Minor: Agricultural Biochemistry. Thesis: The Locus of the Initiation Reaction in an Emulsion Polymerization Recipe Containing Ferrous Iron and Benzoyl Peroxide.

Master of Science in Aeronautical Engineering

Marvin Carl Johnson, Minneapolis

B.Aero.E. '49, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics and Mechanics. Thesis: Experimental Investigation of Shear Lag Effects in an Unsymmetrically Loaded Symmetrical Box Beam.

Douglas Cameron Nichols, Steger, Ill.

B.Aero.E. with high distinction '50, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: A Theoretical Investigation of the Effects of Shear Lag on the Stresses Produced by a Non-symmetrical Load in a Box Beam of Symmetrical Cross Section.

George Edward Yale, Jr., Excelsior

B.Aero.E. '49, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Master of Science in Agricultural Engineering

John Rowland Davis, Minneapolis

B.Ag.E. with distinction '49, University of Minnesota. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: Engineering and Economic Aspects of Irrigating Alfalfa and Field Corn in Minnesota.

David Wellington Hubbell, St. Paul

B.Ag.E. '49, University of Minnesota. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: A One Year's Study on the Effects of Nitrogen and Irrigation on the Growth of Field Corn in Minnesota.

Hajime Ota, Redwood Falls

B.S. with honor '48, Michigan State College. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: Supplementary Water Heating with Domestic Freezer Compressor.

Master of Science in Chemical Engineering

J. Byron Bingeman, Waterloo, Ontario, Canada

B.S.Ch.E. '46, Queen's University; M.S. '48, University of Detroit. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Structure Studies on the Bromine-Graphite System.

James Lee, New York, N.Y.

B.Ch.E. '49, Rensselaer Polytechnic Institute. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: A Study of Two-Position Temperature Control.

Richard Wesley Stover, Minneapolis

B.Ch.E. '49, University of Minnesota. Major: Chemical Engineering. Minor: Mechanical Engineering. Thesis: Heat Transfer from Fine Vertical Wires.

Gerald Joseph Orazem, Keewatin

B.Ch.E. with distinction '49, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Heterogeneous Catalysts in Liquid-Phase Esterification.

Kollipara Dharma Raju, Lafayette, Ind.

B.S. '47, Benares Hindu University; B.S. in Ch.E. '49, Purdue University. Major: Chemical Engineering. Minor: Industrial Engineering. Thesis: A Comparison of Some Homogeneous Esterification Catalysts—II.

Master of Science in Civil Engineering

William Leo Berk, Chicago, Ill.

B.S.C.E. '47, University of Notre Dame. Major: Civil Engineering (Sanitary Engineering). Minor: Civil Engineering (Hydraulics). Thesis: Cycling Effect on Organic Solids through a Sewage Trickling Filter.

Donald Owen Dencker, Minneapolis

B.C.E. '49, University of Minnesota. Field of Concentration: Civil Engineering.

Alfred Chen-Tze Ho, Shanghai, China

B.S. in C.E. '47, Chiao-Tung University. Major: Civil Engineering. Minor: Mathematics. Thesis: Elastic Stability of Plane Truss Frameworks.

Donald Henry Swets, Chicago, Ill.

B.S.C.E. '46, University of Illinois. Field of Concentration: Civil Engineering.

Russel Allen Holcomb, Minneapolis

B.C.E. with high distinction '49, University of Minnesota. Major: Civil Engineering. Minor: Mathematics and Mechanics. Thesis: A Study of the Efficiency of Horizontal Construction Joints in Horizontal Members.

Robert Alan Johnson, Minneapolis

B.Mech.E. '49, University of Minnesota. Field of Concentration: Civil Engineering.

Leon Dan Luck, Pullman, Wash.

B.S. in C.E. '43, State College of Washington. Major: Civil Engineering. Minor: Mathematics and Mechanics. Thesis: An Investigation of the Shear Characteristics of Palouse Clay.

Master of Science in Electrical Engineering

Robert Athanasius Henle, Virginia

B.E.E. with distinction '49, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Transistor in the Trigger Circuit.

Ralph Harold Hinrichs, Minneapolis

B.E.E. with high distinction '44, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Measurement of the Equivalent Constants of a Transistor at Radio Frequencies.

Robert Neville McCoy, Duluth
B.E.E. with distinction '48, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: A Study of
Magnetic Amplifiers.

Wallace Stephen Wells, Rapid City,
S.D.

B.S. in E.E. with high honors '47, South
Dakota School of Mines and Technology.
Major: Electrical Engineering. Minor: Mathe-
matics. Thesis: The Diffraction of Three
Centimeter Microwaves around a Circular
Disc.

Se Puan Yu, Manila, Philippines
B.E.E. with distinction '48, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: A Study of the
Performance of Polyphase Induction Motor
by the Method of Symmetrical Components.

Master of Science in Mechanical Engineering

Marvin Arthur Sandgren, Robbinsdale
B.Mech.E. with high distinction '41, Univer-
sity of Minnesota. Field of Concentration:
Mechanical Engineering.

David John Sutton, Minneapolis
B.Mech.E. with distinction '49, University of
Minnesota. Field of Concentration: Mechani-
cal Engineering.

Bertram Thomas Willman, Duluth
B.Mech.E. with high distinction '50, Univer-
sity of Minnesota. Field of Concentration:
Mechanical Engineering.

Master of Science in Medicine

Daniel William Hayes, Fort Huron,
Mich.

B.S. '43, M.D. '47, Northwestern University.
Major: Medicine. Minor: Pathologic Anat-
omy. Thesis: The Extramedullary Lesions in
Multiple Myeloma. Review of Literature and
Pathologic Studies.

Master of Science in Neurosurgery

Irving S. Cooper, New York, N.Y.
B.A. '42, M.D. '45, George Washington Uni-
versity. Major: Neurosurgery. Minor: Neuro-
pathology. Thesis: Tumors of the Medulla
Oblongata.

Master of Science in Orthopedic Surgery

Robert Burl Elliott, Oskaloosa, Iowa
B.A. '41, M.D. '43, State University of Iowa.
Major: Orthopedic Surgery. Minor: Anatomy.
Thesis: A Discussion of the Evolution of
Man's Orthograde Locomotion with Special
Reference to Certain Orthopaedic Conditions.

Doctor of Philosophy

Richard Strong Claassen, Ithaca, N.Y.
B.A. '43, Cornell University; M.A. '47, Columbia University. Major: Physics. Minor: Mathematics. Thesis: The Experimental Determination of the Cross Section per Unit Solid Angle for the Scattering of Protons by Tritium as a Function of Scattering Angle and Incident Proton Energy. Major Adviser: Prof. J. H. Williams.

Mortimer Cohen, Brooklyn, N.Y.
B.A. '36, Brooklyn College; M.S. '42, College of the City of New York. Major: Plant Pathology. Minor: Plant Physiology. Thesis: Studies on Pathogenicity and Sexuality of Certain Isolates of *Phytophthora palmivora* Butler. Major Adviser: Prof. C. M. Christensen.

John Ross Colvin, Regina Beach, Saskatchewan, Canada
B.S.A. '46, University of Saskatchewan; M.Sc. '48, University of Alberta. Major: Agricultural Biochemistry. Minor: Physical Chemistry. Thesis: An Explanation of Some Electrophoretic Boundary Anomalies and Its Relation to the General Problem of Protein-Anion Interaction. Major Adviser: Prof. D. R. Briggs.

Mervyn Henry Ewart, Newmarket, Ontario, Canada
B.S.A. '44, Ontario Agricultural College; M.Sc. '46, McGill University. Major: Agricultural Biochemistry. Minor: Botany. Thesis: Studies on Development of Frost Resistance in Plant Tissues. Investigation of Some Enzyme Systems in Living Bark Cells of the Black Locust Tree. Major Adviser: Prof. D. R. Briggs.

Neil Casey Fine, Lubbock, Tex.
B.S. '35, Texas Technological College; M.S. '39, Iowa State College. Major: Animal Husbandry. Minor: Plant Genetics. Thesis: A Study of Selection for Factors of Performance in the Minnesota No. 1 and No. 2 Inbred Lines of Swine. Major Adviser: Prof. L. M. Winters.

Jacob Joseph Goodman, Saskatoon, Saskatchewan, Canada
B.S.A. with great distinction '44, University of Saskatchewan; M.Sc. '47, University of Alberta. Major: Plant Pathology. Minor: Botany. Thesis: Physiological Studies on Fungi Associated with the Deterioration of Stored Grains. Major Adviser: Prof. C. M. Christensen.

Anna Caroline Greve, Bethany, Okla.
B.A. '29, Kletzing College; M.S. '37, Iowa State College. Major: Education. Minor: Home Economics. Thesis: Practices and Procedures Developed in the North Central Association Study for the Improvement of Liberal Arts Education. Major Advisers: Profs. C. B. Army and R. E. Eckert.

William Thomas Hunter, Minneapolis
B.Chem. '44, University of Minnesota. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Studies Related to the Bicyclo-(2,2,1)Heptadiene-2,5 Ring System. Major Adviser: Prof. W. E. Parham.

Ralph Lloyd Kitchell, Ada
D.V.M. '43, Iowa State College. Major: Anatomy. Minors: Pathology and Veterinary Medicine. Thesis: Effects of Hormones upon the Adrenals and Reproductive Organs of the Fetus. Major Adviser: Prof. L. J. Wells.

Blanchard Orlando Krogstad, Winger
B.A. '46, Bemidji State Teachers College; M.A. '48, University of Minnesota. Major: Zoology. Minor: Entomology. Thesis: A Study of the Population Dynamics of *Eurosta solidaginis* (Fitch). Major Adviser: Prof. A. C. Hodson.

Ralph Louis Langenheim, Jr., Tulsa, Okla.
B.S. '43, University of Tulsa; M.S. '47, University of Colorado. Major: Geology. Minors: Zoology and Geology (Petrology). Thesis: Pennsylvanian Stratigraphy in the Crested Butte Quadrangle, Colorado. Major Adviser: Prof. W. C. Bell.

Wallace Thompson Leland, Bloomer, Wis.
B.E.E. with distinction '43, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: An Isotopic Study of Scandium. Thesis: An Isotopic Study of Scandium, Gadolinium, Dysprosium, Holmium, Erbium, Ytterbium, Tellurium, Vanadium, Iodine, and Platinum. Major Adviser: Prof. A. O. C. Nier.

Chang-Shan Lin, Peking, China
B.S. '35, M.S. '38, Yenching University. Major: Entomology. Minor: Plant Pathology. Thesis: Some Ecological Studies of Natural Populations of *Drosophila* in Minnesota. Major Adviser: Prof. A. C. Hodson.

Robert Marion Lindquist, Madison, Wis.

B.S. '44, University of Wisconsin. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Studies in the Fields of Benz(f)-isoquinolines and of Benz(h)isoquinolines. Major Adviser: Prof. C. F. Koelsch.

Edward Livingston Maxwell, Montgomery, Ala.

B.A. '27, Morehouse College; M.A. '36, University of Minnesota. Major: Zoology. Minor: Bacteriology. Thesis: (1) Effects of Grafted Testes upon the Seminal Vesicles of Castrated Fetal Rats and (2) Medullary Bone Formation in Adult White Rats. Major Advisers: Profs. L. J. Wells, N. T. Spratt, Jr., and D. E. Minnich.

Rudolph Pariser, Oakland, Calif.

B.S. '44, University of California. Major: Physical Chemistry. Minor: Physics. Thesis: A Study of Some Oxidation-Reduction Reactions Photosensitized by Chlorophyll and Related Substances. Major Adviser: Prof. Robert Livingston.

John Forrester Pelton, Los Angeles, Calif.

B.S. '45, University of California; M.S. '48, University of Minnesota. Major: Botany. Minor: Forestry. Thesis: The Ecology of Wolfberry, *Symphoricarpos occidentalis* Hook., in Minnesota. Major Adviser: Prof. D. B. Lawrence.

Benjamin Franklin Rogers, Jr., Tallahassee, Fla.

B.A. *cum laude* '40, M.A. '41, Harvard College. Major: History. Minors: Political Science and Agricultural Economics. Thesis: The United States Department of Agriculture (1862-1889): A Study in Bureaucracy. Major Adviser: Prof. E. S. Osgood.

Jerome Joseph Rosenbaum, New Rochelle, N.Y.

B.A. '42, New York University. Major: Organic Chemistry. Minors: Analytical Chemistry and Pharmaceutical Chemistry. Thesis: Polyalkylbenzenes XXXV. Major Adviser: Prof. L. I. Smith.

William Basil Savchuck, Minneapolis B.S. '38, College of the City of New York; D.D.S. '47, University of Minnesota. Major: Physiological Chemistry. Minor: Pathology. Thesis: Fluoride Analytical Studies and Turn-over in the Mammalian Skeleton. Major Adviser: Dr. W. D. Armstrong.

Sister Agnes Lanctot, Crookston

B.A. '26, College of St. Catherine; M.A. *magna cum laude* '43, University of Notre Dame. Major: Education. Minor: English. Thesis: The Relationship between the Sensitivity of Eighth Grade Students to Their Own Needs and to the Needs of Others for Economic Security and Belonging and Their Response to Selected Stories Revealing These Needs. Major Adviser: Prof. D. V. Smith.

Warren Edward Snyder, Minneapolis

B.S. in Mech.E. '43, University of Kansas; M.S. in Mech.E. '49, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: The Performance Characteristics of Centrifugal Power Exhausters. Major Advisers: Profs. A. B. Algren and N. A. Hall.

John Woodbridge Van Cleve, St. Louis, Mo.

B.S. with distinction '37, Antioch College. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Correlation of the Structure of the Glycosides. Major Adviser: Prof. Fred Smith.

James Edward Williams, Jackson, Tenn.

D.V.M. '46, Alabama Polytechnic Institute; M.S. '49, University of Minnesota. Major: Veterinary Medicine. Minor: Bacteriology. Thesis: The Antigenic Nature of *Salmonella pullorum* and Serologically Related Organisms. Major Adviser: Prof. B. S. Pomeroy.

Francis Scott Yeager, Houston, Tex.

B.A. '37, University of Western Ontario; M.A. '48, University of Minnesota. Major: Economics. Minor: Law. Thesis: The Metropolitan Twin Cities, A Regional Entrepot—An Economic Analysis and Interpretation of the Upper Midwest. Major Adviser: Prof. R. S. Vaile.

Doctor of Philosophy in Neurology

David de Rouen Daly, Rochester

B.A. '40, Stanford University; B.S. '43, M.D. '45, University of Minnesota. Major: Neurology. Minor: Neuropathology. Thesis: Electroencephalographic Studies of Photic Driving in Normal Individuals. Major Adviser: Dr. R. G. Bickford.

Doctor of Philosophy in Neurosurgery

Irving S. Cooper, New York, N.Y.

B.A. '42, M.D. '45, George Washington University; M.S. in Neurosurg. '51, University of Minnesota. Major: Neurosurgery. Minor: Neuropathology. Thesis: Subarachnoid Glial Heterotopias: Their Histopathologic Characteristics, Mode of Origin, and Relation to Meningeal Gliomas. Major Adviser: Dr. J. W. Kernohan.

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, Home Economics, and 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 sleeve. The trimming may be either black or may match the color of the hood edging.

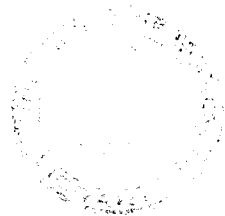
Caps, or mortarboards, too, have significance. The President of the University is the only one who may wear a velvet cap and a gold tassel.

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

For the Master's and Doctor's degree, 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 their appearance on the platform)

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, Home Economics, and Veterinary Medicine	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



THE
UNIVERSITY OF MINNESOTA

Announces Its

June Centennial Commencement

1951

MEMORIAL STADIUM

SATURDAY EVENING, JUNE 16

AT EIGHT O'CLOCK

1851

• FOUNDED IN THE FAITH THAT MEN ARE ENNOBLED BY UNDERSTANDING •
DEDICATED TO THE ADVANCEMENT OF LEARNING AND THE SEARCH FOR TRUTH
DEVOTED TO THE INSTRUCTION OF YOUTH AND THE WELFARE OF THE STATE

1951



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 J. S. Jones, St. Paul

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

The Honorable Sheldon V. Wood, Minneapolis

As a courtesy to those attending commencements in the Memorial Stadium, and with due regard to the solemnity of these occasions, be it resolved by the Board of Regents that there be printed in the programs of all commencements held in the Memorial Stadium a request that there be no smoking in the Stadium proper.

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota is currently celebrating its one hundredth birthday. While observing this milestone, 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 100,000 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 twenty-thousand 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 demonstration 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 because it is one of the largest state universities in the nation, but because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in their University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the new Variety Club Heart Hospital to be dedicated 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. Gifts to the Greater University Fund, each appropriately called "A Share in Greatness," now being made especially by alumni, are worthy of special mention.

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. Edward Berryman, Instructor in Music, at the console. Admission to the commencement exercises in Memorial Stadium is by guest ticket only. No seats 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. Ernest A. Villas, Acting Bandmaster, conducting.

Overture to "Orpheus in der Unterwelt" - - - - -	Offenbach
Finale to Symphony No. 5 - - - - -	Shostakovich
Waltzes from "Der Rosenkavalier" - - - - -	Richard Strauss
March, Garland Entree - - - - -	King

PROCESSIONALS:

Coronation March - - - - -	Meyerbeer
Huldigungsmarsch from "Sigurd Jorsalfar" - - - - -	Grieg
War March of the Priests - - - - -	Mendelssohn

PROCESSIONAL: The procession, 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 Air Science and Tactics; Department of Naval Science; General Extension Division; General College; College of Science, Literature, and the Arts; University College; Institute of Technology; College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; 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., Assistant 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 James D. Boren, B.D., Director, Westminster Foundation, Member, Minnesota Council of Religion.

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 C. H. Schabacker, USA, Professor of Military Science and Tactics; Captain C. M. Sullivan, USN, Professor of Naval Science; and Major W. H. Grierson, 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 Captain Sullivan; the commissions by staff members in the respective branches.

CONFERRING OF DEGREES: Vice President Willey will introduce the deans of the several colleges 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; Professor G. H. McCune, Ph.D., General College; Assistant Dean J. W. Buchta, Ph.D., College of Science, Literature, and the Arts and Chairman of the Faculty, University College; Assistant Dean E. W. Johnson, Institute of Technology; Dean Henry Schmitz, Ph.D., College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Dean W. E. Peik, Ph.D., College of Education; Dean R. L. Kozelka, Ph.D., School of Business Administration; Dean C. H. Rogers, Sc.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. Blegen, Ph.D., Graduate School.

Order of Events

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

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, USAR

Joseph Wilson Janda, Minneapolis
Robert Hugh Owen, Jr., Lime Spring,
Iowa

Donald Whitacre Wheeler, Minne-
apolis

First Lieutenant, Medical Corps, USAR

John William Anderson, Minneapolis
Ernest Maurice Berkas, Kenyon
Harley Corwin Carlson, Argyle
Leonard Arthur Cobb, Jr., St. Paul
John Martin Gunsolus, Stuart, Fla.
Worth Allen Hooper, Blue Earth
Herb Leonard Huffington, Jr., Madi-
son Lake
Roger Edwin Kelley, Minneapolis
Charles Francis Kelly, Minneapolis
Walter Edwin Krafft, Minneapolis
Elliot Mandel Latts, Minneapolis

John Edward Middlebrook, St. Paul
William Vaughan Owen, Minneapolis
Wilmer Laurence Pew, Minneapolis
Kurt Pollak, Minneapolis
Arnold Ivar Rajala, Cromwell
Reimert Thoralf Ravenholt, Minne-
apolis
Robert Harris Rosenberg, Minneapolis
Lorin Clair Spencer, Madelia
John McDonald Streitz, Minneapolis
Jack Anderson Vennes, Minneapolis
Kermit Joseph Wright, Minneapolis

Second Lieutenant, Coast Artillery Corps, USAR

Kenneth James Byrne, St. Paul
Edwin James Hughes, Ephrata, Wash.
Robert Ward Huntzinger, Minne-
apolis
Joseph Albert Letourneau, III, Min-
neapolis

Paul Wallace Lohmann, Minneapolis
Donald Burnell Miller, Jr., St. Paul
David Lionel Pinks, Minneapolis
Donald Gale Tollin, Minneapolis

Second Lieutenant, Corps of Engineers, USAR

Glenn Dale Hamilton, Minneapolis
Arnold Schjolberg Lucke, Minneapolis

John Leroy Nosbusch, Minneapolis
Paul Jackson Slight, Rochester

Second Lieutenant, Medical Service Corps, USAR

Bernard Ecanow, Minneapolis
Marcus Ross Frederickson, Mille Lacs
Quentin Laurel Larson, Alexandria
Richard George Lunzer, Minneapolis

Joseph Joe Markovich, Eveleth
Roger Raymond Starn, Minneapolis
Alvin Carl Tengvall, Benson

Second Lieutenant, Ordnance Corps, USAR

Thomas Charles Campbell, St. Paul
Robert Oscar Carter, Minneapolis
Edwin Stephen Hammer, Minneapolis

Gordon Earl Harms, St. Paul
Vernon Rodger Tate, Hillman

Second Lieutenant, Quartermaster Corps, USAR

Kenneth Marion Banta, Wyoming
Harold Otto Batzer, Gillett, Wis.
Anthony Francis Bauer, St. Paul
John James Belmont, St. Paul
Cyril Case Clements, Jr., Mankato
Robert James Farl, Watertown, S.D.
Charles David Grant, Faribault
Robert Lee Isaacson, Underhill, Wis.

Kurt Kornreich, St. Louis Park
Chester Eugene Pawlicki, Ironwood,
Mich.
Jarrold Adams Petraborg, Minneapolis
Aloysius Thomas Super, Little Falls
Paul Edmond Westling, Minneapolis
Milford Gilbert Yager, Montrose

Second Lieutenant, Signal Corps, USAR

James Lee Barry, St. Paul
Robert Joseph Fitzsimmons, St. Paul
Frederick Leo Heid, Browerville
Jerome Donald Henderson, St. Paul
Eugene Dwayne Holen, Watertown,
S.D.
Charles Gregory Jensen, Benson
Gerald Edwin Knatterud, Winona

William Clayton Marshall, Jr., Min-
neapolis
Richard Martin Martinson, Minne-
apolis
Marc Chaney Shoquist, Forest Lake
Thomas Hall Tyvand, St. Paul
William Thomas Wasnick, Anoka

Second Lieutenant, Transportation Corps, USAR

Philip Mathre Campbell, Minneapolis
William Joseph Chevalier, St. Paul
Thomas Bruce Coulter, St. Paul
William Hugo Fischer, Minneapolis
James Russell Frawley, Jr., Minne-
apolis
Thomas Gerald Hayes, Minneapolis
John Christian Heegaard, Minneapolis
Charles Carroll Hicks, Excelsior
Samuel Bettle Hill, Squaw Lake
George Owen Holm, Minneapolis

John Wilbert Holm, Minneapolis
John Alfred Johnson, Jr., St. Paul
Thomas Raymond Krueger, Minne-
apolis
Thomas Neil LeFebvre, Minneapolis
Lloyd Vincent Lofgren, Winthrop
Donald Ferdinand Luehrs, Glencoe
Carter LeRoy Nelson, Minneapolis
Vernon Bert Petersen, St. Paul
Kern Sherwood Ridlington, Minne-
apolis

DEPARTMENT OF AIR SCIENCE AND TACTICS

Second Lieutenant, USAF Reserve

Richard K. Blackwell, Wabasha
Thomas P. Gleason, Minneapolis
Michael D. Guerin, Jr., St. Paul
Edward H. Johnson, Eau Claire, Wis.
John S. Johnson, Grand Rapids
James P. Lindberg, Jr., Wabasha
Harry R. Meline, Lindstrom

Frank A. Musielewicz, Little Falls
Norman H. Petersen, St. Paul
Robert G. Ridgway, Minneapolis
Frederic W. Rogers, Clear Lake, Iowa
Eugene V. Rutkowski, Minneapolis
Walter V. Schovanec, Minneapolis
Harold H. Wylie, Jr., Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Irving Gordon Berg, Minneapolis
Arnvid Nord BJORKE, Rugby, N.D.
Robert Daniel Brown, Jr., Fargo, N.D.
Donald Allen Christenson, Litchfield
Arthur Zeise Crum, New Ulm
Karl Richard Ekman, Alexandria
James Sidle Elfelt, Minneapolis
James Karl Ericson, New Rockford,
N.D.
Kenneth Roderick Gnos, St. Paul

David Franklin Hansen, Minneapolis
Lyle Verner Nash, Minneapolis
Clinton David Nelson, St. Paul
Arthur John Oberg, Minneapolis
Jerome Raymond Rosso, Minneapolis
William Woods Stempel, St. Paul
William Herbert Walker, Hutchinson
Robert Fredrick Wentworth,
Rochester
Robert Milton Wunderlich, St. Paul

Ensign, SC, USN

Roger Frederic Barrett, Robbinsdale
Newton Robert Fuller, Minneapolis
Gary Don Ghostley, Rogers
John Arthur Kohler, Minneapolis
Richard John Larsen, Indianapolis,
Ind.

Frank Pickard, Jr., St. Cloud
Charles Harry Samuelson, Edina
Matthew Howard Van Order,
Rochester, N.Y.

Second Lieutenant, USMC

Glen Allen, Park Rapids
Frank Joseph Murray, Minneapolis
Charles Albert Pearson, Western
Springs, Ill.

William Richard Rice, Minneapolis
Jerome Warren Stranahan, St. Paul

Candidates for Graduation

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

GENERAL EXTENSION DIVISION

Business Certificate

Eugene Chulik, St. Paul
Dorothy Danielson, St. Paul
Harlan H. Fick, Minneapolis
Harvey G. Herzog, St. Paul
Irving E. Nelson, Minneapolis

Harold R. Nyquist, St. Paul
Willis F. Shaw, Minneapolis
Darrell A. Sobraske, St. Louis Park
Gilbert A. Wilson, Minneapolis

Engineering Certificate

Wayne E. Sweet, Minneapolis

GENERAL COLLEGE

Associate in Arts

John Herbert Adams, Hamel
Joyce Leonore Auger, Minneapolis
John Arthur Banks, St. Paul
Marian Rosalie Belknap, Ceylon
Lawrence Merton Benson, Minneapolis
Alitricae Mae Boraas, Dawson
Ara Boranian, St. Paul
Arline Braman, Minneapolis
Neysa Braman, Minneapolis
Rodney Paul Brannon, Minneapolis
Donald Edward Brock, Minneapolis
Robert Joseph Brown, St. Paul
Richard A. Browne, Minneapolis
John Lynn Callahan, St. Paul
William Douglas Carlson, Minneapolis
William Lane Carpenter, Crookston
Margaret Alice Cleveland, Minneapolis
John Edmund Coffey, Minneapolis
Marilyn Louise Conant, Minneapolis
Diane Camille Dalpe, Minneapolis
Kathleen Mary Dougherty, Minneapolis
James Joseph Drexler, Rochester
Kenneth John Drost, St. Paul

Shirley Charlotte Erickson, Minneapolis
Herbert H. Ferguson, Minneapolis
William Fredrick Ferguson, St. Paul
Jean Carol Freeberg, St. Paul
Donald John Gaylord, St. Paul
George Joseph Gondreau, Henderson
Lowell Albert Gordon, Minneapolis
Shirley Raye Green, St. Paul
Donald Lewis Gross, Duluth
Glenn Edwin Gulstrand, Jr., Minneapolis
Mary Jean Hagman, Richfield
Hadley A. Hamre, Granite Falls
Frances Elaine Hanrehan, Minneapolis
Alfred Lavern Hassler, St. Paul
Burnham Dane Hawley, St. Paul
Mary Jane Heffernan, Minneapolis
Robert Louis Holmquist, Minneapolis
Joan Marie Jackson, St. Paul
Edmund Stanley Jasinski, Minneapolis
Arvin Frank Jaskola, Minneapolis
Ronald Warren Jensen, St. Paul

Shirley Ann Johns, St. Paul
 Carol Ann Johnson, South St. Paul
 Giles Willis Johnson, Cloquet
 Layton Johnson, Minneapolis
 Ray Allan Johnson, Minneapolis
 Jerrold Jerry Kline, Minneapolis
 Wallace Lee Kopisca, Shakopee
 Charles Frank Krassas, Minneapolis
 Donald Edward Kraus, Minneapolis
 William Dominic Lanzo, Jr., Minne-
 apolis
 Eugene Richard Lauer, St. Paul
 Donald Norman LeClare, Minneapolis
 Charles William Leistico, Jr.,
 Worthington
 Dale Allyn Lindsley, Minneapolis
 Fleurette Rita Maslow, Minneapolis
 Marion Joanne Maund, Minneapolis
 James Sommerville McDonald, Min-
 neapolis
 John Marshall Middleton, Minne-
 apolis
 Margaret Helen Miller, Minneapolis
 Homer William Mitchell, Minneapolis
 James Moffat, Minneapolis
 Donald Robert Morgan, Minneapolis
 John Miles Mullane, Minneapolis
 Rosalyn Pearl Nathanson, Minneapolis
 Beverlee Jeanne Nelson, New Ulm
 Earl Orison Hjalmer Nelson, Red
 Wing
 Janeth Rose Norton, Minneapolis
 Clifford Monte Olson, North St. Paul
 Jerrold Frank Orloff, St. Paul
 Donna June Ortle, Minneapolis

Robert Harry Patrin, St. Paul
 Marion Clara Perkins, Minneapolis
 Helen Virginia Peterson, St. Paul
 Richard Allyn Peterson, St. Paul
 Harry Joseph Petschel, Brainerd
 David Albert Pilkey, Crookston
 David Lionel Pinks, Minneapolis
 Irene Porianda, Minneapolis
 Joseph Bernard Raab, Minneapolis
 Margaret Ann Ray, St. Paul
 Paul Reis, Minneapolis
 William Howard Richardson, Jr.,
 Minneapolis
 Sandra Sibley Rugg, St. Paul
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Victor Thomas Wlodkowski, St. Paul

INSTITUTE OF TECHNOLOGY

Technical Aid Certificate

Larry Irwin Bass, Minneapolis
Jerome Peter Brenny, Minneapolis
Frederick Julian Carlson, Minneapolis
John Alvin Carlson, Minneapolis
Donald George Conklin, St. Paul
John Francis Conroy, St. Paul
Kenneth William Copp, St. Paul
Alvin Fletcher Daniels, Atwater
Robert Winfred Darr, Minneapolis
Paul John Diethelm, Victoria
James Robert Espy, Minneapolis
William Robert Foss, St. Paul
Sidney Anton Gausman, Jr., Morris
Peter Joseph Giese, Wells
Donald Gene Heisterkamp, Granger
Dale Allan Hewitt, Osseo
Richard George Hildebrand, Stacy
Donald Dwight Hill, Minneapolis

Thaddeus Micheal Kielb, Minneapolis
Constance Carol King, Minneapolis
Mickey Mikio Kirihara, Minneapolis
Dennis Eugene Koziol, Osseo
James Henry Kunde, Minneapolis
Eugene Henry Mokrzycki, St. Paul
Donald Henry Pinski, St. Paul
Dwayne Arthur Rule, St. Paul
Edward Wesley Rutherford, St. Paul
Ingvald Thorolf Siverts, Jr., Minneapolis
David William Tanner, Minneapolis
Peter Woytuk, Forest Lake
Donald T. Wuest, Anoka
James Arnold Zachman, St. Paul
Jerome Henry Zeug, Minneapolis

Bachelor of Science

Halfdan Baadsgaard, Minneapolis,
WITH DISTINCTION
Charles Barge Blumer, Minneapolis,
WITH HIGH DISTINCTION
Sylvan Duane Burgstahler, Glencoe,
WITH HIGH DISTINCTION
Richard Dexter Burlingame, Minne-
apolis, WITH DISTINCTION
Clinton Curtiss Christianson, Deer
Park, WITH HIGH DISTINCTION
Harry Eugene Cotrill, Jr., St. Louis
Park, WITH HIGH DISTINCTION
Richard Dale Danielson, Red Wing,
WITH DISTINCTION
Duane Floyd Dipprey, Mora, WITH
DISTINCTION
William John Egan, Henning
Roger Redmann Ellefson, Minne-
apolis, WITH DISTINCTION
John E. Fahlgren, Chatfield
Gerald Roger Fenn, Minneapolis
Earl William Gierke, Minneapolis,
WITH HIGH DISTINCTION
Eston Merle Gross, St. Paul, WITH
HIGH DISTINCTION
Gordon William Gustafson, Center
City
Richard Louis Hansen, Minneapolis
James Edward Henjum, Minneapolis,
WITH DISTINCTION
Burton Lee Johnson, Duluth, WITH
DISTINCTION
James Louis Johnson, Hopkins
John Herbert Johnson, Chisago City
David Edward Kosanda, Hopkins,
WITH DISTINCTION
Vincent Hennix Larson, Clinton,
WITH HIGH DISTINCTION

Charles Benjamin Livingston, Minne-
apolis, WITH DISTINCTION
David Elliot Lundstrom, Minneapolis,
WITH HIGH DISTINCTION
John Douglas McIrvine, Winnipeg,
Canada, WITH DISTINCTION
John Kampa Munson, Minneapolis,
WITH HIGH DISTINCTION
Clinton David Nelson, St. Paul, WITH
DISTINCTION
Arthur John Oberg, Minneapolis,
WITH DISTINCTION
George William Parshall, Onamia,
WITH HIGH DISTINCTION
Richard John Reilly, Hokah
Harold Richard Remick, St. Paul,
WITH HIGH DISTINCTION
Robert Elliott Ross, Paragon, Ind.
James Edward Scheidt, Minneapolis,
WITH HIGH DISTINCTION
Earl Winston Schulz, Fergus Falls
Charles James Scott, Minneapolis,
WITH DISTINCTION
Leonard Joseph Seaberg, Minneapolis,
WITH DISTINCTION
James Walter Sedin, St. Paul, WITH
DISTINCTION
Paul Jackson Slight, Rochester
John Harvey Stevens, Minneapolis,
WITH DISTINCTION
Richard Arthur Swalin, Minneapolis,
WITH DISTINCTION
Richard Leonard Swenson, Minne-
apolis, WITH DISTINCTION
LaVelma June Thompson, Minne-
apolis, WITH HIGH DISTINCTION
James Edward Upton, Minneapolis

Bachelor of Aeronautical Engineering

Charles Vern Bidne, Medford
David George De Coursin, Clinton-
ville, Wis., WITH HIGH DISTINCTION
Willard Raymond Ginsky, Minne-
apolis
Wallace Robert Haagenon, Minne-
apolis

Helmer Leopold Johnson, St. Paul
K. Richard Julson, Red Wing
James Palmer Lindberg, Jr., Minne-
apolis, WITH DISTINCTION
Richard John Lorge, St. Cloud
Durwood Eugene Meinzer, Amiret
Floyd Roland Sedlund, Almelund

Charles Richard Stone, Minneapolis,
WITH DISTINCTION
Keith Rodney Thorson, Crookston,
WITH DISTINCTION

William Roeschmann Wehrend, Jr.,
Houston, Texas
Lewis Herbert Winker, Randall
Norman Wesley Wold, Mabel

Bachelor of Agricultural Engineering

Tracie Richard Bell, Minneapolis
Arnold Herman Claassen, Ottertail

Herbert Humphreys Stevens, Jr., Min-
neapolis
John Fred Waidelich, Morgan

Bachelor of Architecture

Sheldon Lee Anonsen, Minneapolis
Richard Theodore Aune, Minneapolis,
WITH DISTINCTION
Wallace Martin Broberg, Minneapolis
Loren John Duerr, Minneapolis
Foster Wilfred Dunwiddie, B.S. in
C.E., Minneapolis, WITH HIGH
DISTINCTION

Joel Harvey Glotter, Minneapolis
Arthur Oscar Haugsby, Hawkins, Wis.
Wilder Charlie King, Jr., Minneapolis
Albert Shigeki Komatsu, Minneapolis
Jack Arthur Myers, Minneapolis
Bent Arne Paulsen, St. Paul
Robert H. Sperl, St. Paul

Bachelor of Chemical Engineering

Russell Clarence Anderson, Grasston
John Calvin Burgeson, St. Paul
Arthur Joseph Garavaglia, Hibbing,
WITH HIGH DISTINCTION
Richard Lionel Harris, Sutherland,
Iowa
James Edward Henjum, Minneapolis,
WITH DISTINCTION
John Edwin Henry, Minneapolis
Robert Walter Kirkconnell, St. Hilaire
Lloyd William Legacy, Duluth
John Douglas McIrvine, Winnipeg,
Canada, WITH DISTINCTION
Laurence George Motl, St. Paul
Edward Joseph Murray, Duluth
Mervin Gordon Neale, Jr., Minne-
apolis
Clinton David Nelson, St. Paul, WITH
DISTINCTION
Leigh Evans Nelson, Welch

Melvin William Ohman, Jr., Minne-
apolis
Leonard Louis Olson, St. Paul
Donald Eugene Pederson, St. Paul
Julien Paul Philippy, St. Paul, WITH
DISTINCTION
Harold Richard Remick, St. Paul,
WITH HIGH DISTINCTION
Kenneth Jack Schwietz, St. Paul
Stephen Andrew Seman, Anoka
Richard Leonard Swenson, Minne-
apolis, WITH DISTINCTION
Stanley Willoughby Thiele, Minne-
apolis, WITH DISTINCTION
Louis Henry Vincent, Winnipeg,
Canada
Richard Nicholas Walz, Minneapolis,
WITH DISTINCTION
Spencer Loren Young, Farmington
Eugene Lawrence Zajac, Minneapolis

Bachelor of Chemistry

Robert Harry Fehner, Mankato
Robert Dale Fellman, A.A., Red Lake
Falls
James Andrew Hudy, Aurora
David Hardie Kaelble, St. Paul
Richard Joseph Mousseau, Minne-
apolis

Lies Nijssen, Amsterdam, Holland,
WITH DISTINCTION
Anna May Swanson Nirschl, Two
Harbors
George Clarence Reid, Deer River
Joseph Richard Tome, Ely

Bachelor of Civil Engineering

- Dennis John Agather, Perham
Wilman Edward Agneberg, Minneapolis
Burton Hjalmer Anderson, La Crosse, Wis.
Earl Kenneth Anderson, St. Paul
Robert Lowell Anderson, Red Wing
Warren Harry Anderson, Ironton,
WITH HIGH DISTINCTION
Hector Adrian Andrade Urrejola,
Guatemala City, Guatemala
Wilbur Dale Aronson, Minneapolis
Leonard Marshall Barhan, Portland,
Ore.
Arnold Henry Berg, Minneapolis
Edwin Lindsley Bidwell, III, Excelsior
Ward Everette Blake, Henriette
William Arthur Boe, Minneapolis,
WITH DISTINCTION
Graydon Russell Boeck, Westbrook
Robert Alexander Bornemann, Hallock, WITH DISTINCTION
Raymond Francis Burrows, St. Paul
William Robert Carr, St. Paul
Richard Lee Christopherson, Minneapolis
Robert Raymond Clemens, St. Paul,
WITH DISTINCTION
Thomas Roy Coleman, Hallock
Robert James Crowther, Fairmont
Paul Eugene Ellison, Minneapolis
Scott James Elstad, Independence,
Wis.
John Roger Engebretson, Slayton
Kerien Fitzpatrick, Dayton, Ohio
Robert Loyd Gordier, Minneapolis,
WITH DISTINCTION
Donald Wayne Hanson, Fergus Falls
Glenard Haugen, Northfield
Alfred William Hedenberg, Duluth
Harold Kenneth Herland, Minneapolis
Roger Lambert Hertzberg, Minneapolis, WITH DISTINCTION
Donald Albert Jacobson, Minneapolis
Robert Edward Jenson, Minneapolis
Norman Edward Johnson, Eveleth
Roy Samuel Johnson, Jr., St. Peter
Wesley Wayne A. Johnson, Benson
Joseph Christopher Kellogg, St. Paul
Richard Gregory Kilp, Oshkosh, Wis.,
WITH DISTINCTION
James Joseph Kleinschmidt, Winona
Alex Kovalchuk, St. Paul
Kenneth Arnold Kroening, Plainview
Thomas Charles Kryzer, St. Paul
William Adolph Kusnerek, Little Falls
Lyle Wesley Kutz, Buhl
Paul Howard Lagerstedt, Chisholm
Frank Arthur Licha, West St. Paul
Arnold Loren Lindberg, St. Paul
Robert L. Loeffel, Minneapolis
Clinton William Maxwell, Hibbing
Floyd George McLellan, St. Paul
Harry Rogers Meline, Lindstrom
Eugene Charles Mitchell, St. Paul
Robert Lewis Moore, Minneapolis
John Harold Muhich, Eveleth
William Roy Nettleton, Minneapolis
John Wegner Osnes, Casper, Wyo.,
WITH HIGH DISTINCTION
Robert Hall Owens, Menahga
Donald Joseph Parenteau, St. Paul
Gerald Francis Paulson, St. Cloud
Melvin Gerald Peterson, Eveleth
Robert Melvin Peterson, International Falls, WITH DISTINCTION
Bernard Donald Prola, Ely
Frank Alphonse Quirk, Minneapolis
James Allen Reddington, Hallock
Jack Leander Rice, Minneapolis
Delbert Ervin Rieke, New Auburn
Rodney Walter Ripley, St. Paul
Leon William Rupp, Tracy
Ellis Duane Rustand, Fergus Falls
Earl Winston Schulz, Fergus Falls
Paul Jackson Slight, Rochester
John Alan Smith, St. Paul
Paul Thayer Smith, Minneapolis
William Charles Sorlie, St. Paul
John Harold Stolpestad, St. Paul
William Duane Sundland, Duluth
George Marvin Sutton, Ogilvie
Richard Emil Swanson, Long Lake
Claudius L. Thompson, Minneapolis
Fernando J. Tomassoni, Hibbing
Robert Wesley Updegraff, Minneapolis

Wilfred Ambrose Wahl, St. Cloud
George Victor Wieg, Jr., Minneapolis

Robert Fredrick Wittman, Kiester,
WITH DISTINCTION
John Fleming Youngstrom, Faribault

Bachelor of Electrical Engineering

Herbert Gustav Aas, Fertile
LeRoy Arthur Anderson, Buhl
Sidney Eugene Anderson, Rice Lake,
Wis., WITH DISTINCTION
Wallace Lyle Aschenbeck, Mound
Ray Samuel Ausen, Marshall
George Alexander Baldy, Delano
Kenneth Herbert Bennett, Elkader,
Iowa
Marvin Oscar Bihlaja, Hibbing
Fabian Adrian Blonigan, Robbinsdale
Donald Bryan Bonstrom, New
Brighton
William Charles Brandt, St. Peter
Wesley Arthur Brown, Minneapolis
Thomas Alexander Campbell, St. Paul
Henry Tony Chapek, Hutchinson
Clinton Curtiss Christianson, Deer
Park, Wis., WITH HIGH DISTINCTION
Harold James Dalman, Maple Lake,
WITH DISTINCTION
George Henry Doberstein, Minne-
apolis
Robert Alfred Dunn, Jr., St. Louis
Park
Orville Erick Essen, Duluth
John Martin Evjen, Stewartville
William Stewart Grosz, Fargo, N.D.,
WITH HIGH DISTINCTION
Alvin Charles Harrer, Minneapolis
Seymour Paul Hartzberg, Minneapolis
Frederick Leo Heid, Browerville
Lester Frederick Hetchler, Minne-
apolis
Walter John Hoffman, Hinckley
Richard Powell Hoffmann, St. Paul
Elmer Clarence Hungerford, LeRoy
Steven John Huss, Minneapolis
Ralph Arthur Huwe, St. Paul, WITH
DISTINCTION
Henry Tryke Jackson, Minneapolis
Alvin Evald Johnson, Brainerd, WITH
DISTINCTION
George William Johnson, St. Paul

John Herbert Johnson, Chisago City,
WITH DISTINCTION
Miles Frederick Kanne, Minneapolis,
WITH DISTINCTION
Richard Cyril Kirby, Rochester
Arlon Dale Kompelien, Minneota,
WITH DISTINCTION
Richard Louis Kuelbs, Sleepy Eye,
WITH DISTINCTION
Leonard John Lindstrom, Minneapolis
Russell Elliott Loftman, Minneapolis,
WITH DISTINCTION
David Elliot Lundstrom, Minneapolis,
WITH HIGH DISTINCTION
Norton Cross Lyman, Minneapolis
James Darrell McElwain, Minneapolis
Martin Frederick Nelson, Painesville,
Ohio
Eugene Robert Nordby, Rochester
Donald Harry Noreen, St. Paul, WITH
DISTINCTION
John David Ornes, Los Angeles, Calif.,
WITH HIGH DISTINCTION
Orrin Edsel Ostlund, Anoka
Peter Edward Pappas, Minneapolis
Robert Peter Pearson, River Falls,
Wis.
Robert Lloyd Peterson, St. Paul, WITH
DISTINCTION
Irving P. Prost, Minneapolis
Floyd Daniel Raasch, St. Louis Park
John Robert Rehbein, Cohasset, WITH
DISTINCTION
Virgil C. Rydeen, Minneapolis
Harold Eugene Sawert, Montevideo
James David Schwartz, St. Paul, WITH
HIGH DISTINCTION
Marc Chaney Shoquist, Forest Lake,
WITH DISTINCTION
John Edward Thiel, La Crosse, Wis.
Robert Delroy Vick, Alliance, Ohio
Leonard Loyal Viergutz, Duluth
John Frederick Williams, St. Paul
Raymond Frederick Wulfe, Brainerd,
WITH DISTINCTION

Bachelor of Engineering Mathematics

Leonard Clarence Lidstrom, Glen
Ullin, N.D.

Willbur Cleveland Roberts, Minne-
apolis

Bachelor of Geological Engineering

Walter Edmund Granlund, Cromwell
Walter William Hartman, Minne-
apolis
Allan Vold Martini, Minneapolis,
WITH DISTINCTION

Robert Gillis Neubauer, Virginia
Thomas Charles Sersen, St. Cloud
William Charles Vollendorf, Eau
Claire, Wis.

Bachelor of Industrial Engineering

Donald Henry Beck, Clear Lake

Bachelor of Mechanical Engineering

James Fredrick Anderson, B.B.A.,
Chisholm, WITH HIGH DISTINCTION
Thomas Albert Axelson, Northfield
Vern Gilman Bandel, Rochester
Adrian Arthur Boie, New Richland,
WITH DISTINCTION
William Ernest Bros, Minneapolis
Richard Louis Bumgardner, St. Paul
Charles Alan Class, St. Paul
David Marston Clough, St. Paul
Gilbert Herman Dammann,
B.Aero.E., Norwood
William Lionel Day, Minneapolis
Terrance Ralph DeVinck, Superior,
Wis.
Robert Frans Emanuelson, Minne-
apolis
Robert Donald Esp, Duluth
John E. Fahlgren, Chatfield
Gerald Roger Fenn, Minneapolis
Douglas Wesley Foss, St. Cloud
John Seymour Fowler, St. Paul
Marvin Herbert Franzen, Minneapolis
Tod Orison Ganzer, Hibbing, WITH
DISTINCTION
Donald James Glisky, Osage
William Phillip Grabski, Minneapolis
Robert Stanley Grettum, Little Falls
Alvin DeWayne Grinde, Grand
Rapids
Edward James Guthmann, St. Paul
David Franklin Hansen, Minneapolis

William James Haraden, Chisholm
Allen Hum, Minneapolis
Gordon Fredric Jacobson, Upsala
David Bruce Johnson, Duluth
Reuben Leslie Johnson, Almelund
John Robert Kneip, Hibbing
David Edward Kosanda, Hopkins,
WITH DISTINCTION
Paul Herbert Kramer, Kenyon
Donald LeRoy Larson, Minneapolis
Eugene Duffield Legg, St. Paul, WITH
DISTINCTION
George John Leier, St. Paul
Gordon Craig Lewis, Minneapolis
Milton Frank Lindgren, St. Paul
John Theodore Mehne, Duluth
Albert Bernard Meuleners, Minne-
apolis
John Franklin Morrison, Sandstone
Richard Cowin Morton, Takoma Park,
Md.
Andor Gerhard Myrum, Oklee
Harold Sigurd Nelson, St. Paul
Arthur John Oberg, Minneapolis,
WITH DISTINCTION
Vincent James Pachiano, St. Paul
Lawrence Charles Panushka, St. Paul
Albert Leigh Paulsen, Wessington
Springs, S. D.
Richard Carl Petersburg, Kennedy,
WITH HIGH DISTINCTION
Allyn Sherwood Peterson, Minneapolis

George Anthony Rodgers, Minneapolis
 Albert James Ronning, Minneapolis,
 WITH DISTINCTION
 Eugene Vincent Rutkowski, Jr.,
 Minneapolis
 James Edward Saunders, Minneapolis
 Melvin P. Schroeder, Sabin
 Walter Dorence Schultz, Argonne,
 Wis.
 William James Semple, St. Paul, WITH
 DISTINCTION
 David Nelson Skillings, Duluth
 Gerald Arthur Sporre, Faribault

John Jay Stanley, Minneapolis
 David R. Storrar, Minneapolis
 Robert Ernest Stuber, St. Paul
 Roy Earl Swanson, South St. Paul
 John Campbell Taylor, Minneapolis
 Elmer Herbert Toensing, St. Paul
 James Edward Upton, Minneapolis
 Herbert Francis Welch, Jr., Minne-
 apolis
 Selmer Franz Wogan, Montevideo
 Donald Warren Wray, Minneapolis
 Robert Milton Wunderlich, St. Paul
 John Harvey Zwickey, North St. Paul

Bachelor of Metallurgical Engineering

John Rudyard Holmberg, St. Paul
 William Anthony Koppi, Minne-
 apolis
 James Bates Law, St. Paul
 Harold Charles Macnamara, Minne-
 apolis

Robert Allan Manson, Minneapolis
 John Richard Rink, St. Paul
 John Graham Schmitt, Minneapolis
 Donald Huston Turner, Fairmont
 Carl William Virant, A.S., Aurora

Bachelor of Mining Engineering

Arnold Gaylord Connor, Sleepy Eye
 Robert Baker Davis, Minneapolis
 Sheldon James Dicks, Nashwauk
 George Phillip Bergem, Underwood
 George Spalding Hayden, Marble
 James Robert Hughes, McKeesport,
 Pa.

Einer David Lindquist, Minneapolis
 John Rutherford MacLennan, Minne-
 apolis
 William Peter Pearson, Willmar
 Edward Carlyle Peterson, Annandale
 John Arthur Suihkonen, Mountain
 Iron

Bachelor of Petroleum Engineering

William Henry Becker, Minneapolis
 Francis Myles Elletson, Buffalo
 John Harry Goodrich, Minneapolis,
 WITH DISTINCTION

Theophilus Griffith, Winona
 Donald Clark Leibbrand, Jordan
 Stanley Morry Rosen, St. Paul

Bachelor of Physics

Howard Lester Demorest, Minneapolis
 John Sever Johnson, Grand Rapids
 Veikko Reynold Saari, Minneapolis

Thomas B. VanHorne, Minneapolis,
 WITH DISTINCTION

Professional Engineer Degree

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

William Merlin Sharpless, Redbank, New Jersey, Electrical Engineer, B.E.E., '28, University of Minnesota, thesis, "Artificial Dielectrics for Microwaves."

COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE

Bachelor of Science

- | | |
|--|---|
| Thomas Thor Aamodt, A.A., St. Paul, Agriculture | Rosemarie Georgia Bromschwig, Minneapolis, Home Economics |
| Lauri John Aho, Eveleth, Fish and Wildlife Management | Irene Charlotte Brown, St. Paul Home Economics |
| Ronald Dennis Almen, Minneapolis, Forestry | Mary T. Byers, St. Paul, Home Economics |
| Abel Thorbjorn Anderson, Badger, Agriculture | Mary Elizabeth Carleton, Duluth, Home Economics |
| Charles George Anderson, Mountain Iron, Forestry, WITH DISTINCTION | Jane Elizabeth Carmichael, Minneapolis, Home Economics |
| Neil Albert Anderson, Minneapolis, Forestry | Winfield Jack Carr, St. Paul, Agriculture |
| Raymond Lloyd Anderson, Wilmot, S.D., Agriculture, WITH DISTINCTION | Margie L. Chambers, Owatonna, Home Economics |
| John Irvin Ankeny, Winnebago, Agriculture | Lois Jean Copp, Thief River Falls, Home Economics |
| Oliver Matthew Arten, Minneapolis, Agriculture, WITH DISTINCTION | George Bardsley Crompton, Williams, Agriculture |
| Frances Margaret Barnick, Max, N.D., Home Economics, WITH HIGH DISTINCTION | Walter Andrew Dahlstrom, Minneapolis, Forestry |
| Albert Chase Batchelder, Faribault, Veterinary Medicine, WITH HIGH DISTINCTION | Stanley LaVerne Diesch, Blooming Prairie, Agriculture, WITH DISTINCTION |
| Donald Leroy Beissel, Minneapolis, Agriculture | Heinz Sorger-Domenigg, Graz, Austria, Food Technology |
| Harold Wesley Benson, Minneapolis, Forestry | Harold Edmund Dziuk, Foley, Veterinary Medicine, WITH DISTINCTION |
| Stanley Edward Blinks, Riverdale, N.D., Forestry | Marion Kanten Errede, Milan, Home Economics |
| Lawrence Stephen Breen, Argyle, Science Specialization | Robert Arthur Evans, Hamilton, Mont., Agriculture, WITH DISTINCTION |
| Marvin Alfred Broin, Kenyon, Agriculture | James Clayton Feigal, Pine Island, Forestry |

Virgil Elmer Findell, Minneapolis, Forestry
 Everette Lawrence Francis, Rochester, Agriculture
 Ludwig Frankenberger, Minneapolis, Fish and Wildlife Management
 Donald Boyd French, Rochester, Veterinary Medicine
 Earl Edward Grass, Owatonna, Veterinary Medicine
 Marvin Darrel Grosslein, Minneapolis, Fish and Wildlife Management
 Harold Henry Grote, St. Paul, Veterinary Medicine
 Stanley Arthur Gruetzman, St. Paul, Forestry
 Charles David Gunder, Williams, Agriculture
 Harold John Hable, Oshkosh, Wis., Forestry
 Douglas Duane Hagg, Hector, Veterinary Medicine
 Robert Francis Hammer, Alexandria, Veterinary Medicine
 George William Hanson, Kenyon, Science Specialization
 James O. Hanson, Granada, Veterinary Medicine
 Lorna Jean Harris, Park River, N.D., Home Economics
 Dorothy Jean Hartle, Owatonna, Home Economics
 Jerome Michael Heinz, Hastings, Forestry
 Rodney Dean Hendrickson, Newport, Agriculture
 James H. Hessian, Belle Plaine, Veterinary Medicine
 Leslie Willis Hilde, Ulen, Agriculture
 Florence Jean White Holmsten, St. Paul, Home Economics
 Paul Ledley Hooper, St. Paul, Fish and Wildlife Management
 Robert Allan Howard, Princeton, Agriculture
 Wilbur V. Howard, Aitkin, Forestry
 Peter Bruce Hutton, Harmony, Agriculture
 Willy M. Iritani, Denver, Colo., Agriculture
 Ralph Goodwin Jacobson, Glenwood, Agriculture
 Bernard Frazier Jahn, Montevideo, Veterinary Medicine
 Cleo Virginia Jasman, Minneapolis, Home Economics
 Alice Jane Jenkins, St. Paul, Home Economics, WITH DISTINCTION
 Gwendolyn Ruth Johnsen, Minneapolis, Home Economics
 Donald Wilbur Johnson, Minneapolis, Veterinary Medicine, WITH HIGH DISTINCTION
 Ernest Douglas Johnson, Milaca, Agriculture
 Fritz Herbert Johnson, Minneapolis, Fish and Wildlife Management
 Gordon Theodore Johnson, Minneapolis, Forestry
 James Victor Johnson, Glyndon, Agriculture
 Wilfred Morris Johnson, Minneapolis, Fish and Wildlife Management
 Jacquelin Louise Katzmark, Minneapolis, Home Economics
 Vincent Paul Kelly, Minneapolis, Veterinary Medicine
 Richard James Kennedy, Minneapolis, Forestry
 Wilbert Gene Kern, Stillwater, Agriculture
 Richard Frank Klee, Rochester, Agriculture
 Frank Joseph Kopecky, Wabeno, Wis., Forestry
 Alice Dorothy Krantz, St. Paul, Home Economics, WITH DISTINCTION
 Marvin Elroy Kylo, Goodhue, Agriculture
 Minnetta Adair Lang, Mapleton, Home Economics
 Donald Francis LaPointe, Minneapolis, Fish and Wildlife Management
 Arthur Carl Larson, International Falls, Forestry
 Alois Joseph Lauer, Richmond, Agriculture
 Florian Isadore Lauer, Richmond, Science Specialization

- James Bowler Law, Lake City, Agriculture
- Anthony F. Legun, Minneapolis, Science Specialization
- Wilbur Arthur Leibbrand, Jordan, Veterinary Medicine
- Robert "E" Linde, East Troy, Wis., Forestry
- Eugene Robert Lindholm, Minneapolis, Veterinary Medicine
- James Lowell Lindquist, Bird Island, Forestry
- Donald Siver Lofthus, Minneapolis, Forestry
- Keith Irving Loken, Sandstone, Veterinary Medicine, WITH HIGH DISTINCTION
- David Francis Long, St. Paul, Veterinary Medicine
- Darlene Elizabeth Lueck, Cannon Falls, Home Economics
- Joyce Muriel Lundeen, Annandale, Home Economics
- Allen Lloyd Lundgren, Glenwood, Forestry
- James Robert Lundsten, Delano, Forestry
- George Richard Lyon, Hibbing, Veterinary Medicine
- James Lee Mackey, A.A., Rochester, Agriculture
- Philip Joseph McDermott, St. Paul, Veterinary Medicine
- Larry James McDonough, Winona, Forestry
- Marjorie H. Stacy Melby, Minneapolis, Home Economics
- Austin Aubrey Merriam, Avalon, Wis., Agriculture
- William Arthur Mike, Aurora, Forestry
- Beatrice May Montzka, Minneapolis, Home Economics
- Stanley Martin Mroszczak, Jr., Minneapolis, Forestry
- Robert Dean Munson, Baudette, Agriculture
- William James Murphy, Duluth, Forestry
- Borghild Lovise Myhr, Hill City, Home Economics
- Carolyn Katherine Nawrocki, Minneapolis, Home Economics, WITH DISTINCTION
- Glen Harold Nelson, Brainerd, Veterinary Medicine
- Robert Clarence Nelson, St. Paul, Forestry
- Ruth Reed Norris, Minneapolis, Home Economics
- Curtis Willard Norskog, Hector, Agriculture
- Dean Leroy Obernolte, McGregor, Agriculture
- Patricia Cleo Ochs, Springfield, Home Economics
- Harold Kenneth Olsen, Bemidji, Forestry
- Richard Thomas Olsen, St. Paul, Agriculture
- Donald Edward Olson, Minneapolis, Fish and Wildlife Management
- Donald Melvin Oolman, Adrian, Veterinary Medicine
- Shirley Grewing Parker, St. Paul, Home Economics
- Donald T. Pearson, Red Wing, Veterinary Medicine
- Lawrence G. Peichel, Fairfax, Agriculture
- William Stanton Penning, Pipestone, Agriculture
- Marjorie Elaine Petersen, St. Paul, Home Economics
- Donald William Peterson, Little Falls, Forestry
- Gerald Wesley Peterson, Belgrade, Veterinary Medicine, WITH DISTINCTION
- Thomas Henry Petherbridge, A.A., St. Paul, Forestry
- William Louis Flourde, Stillwater, Forestry
- Miriam Love Poboisk, Minneapolis, Home Economics
- Donald Otto Prielipp, Rothschild, Wis., Forestry, WITH DISTINCTION
- Frederick Arnim Priewert, Duluth, Fish and Wildlife Management
- Halvor Bernhard Ravenholt, Luck, Wis., Agriculture, WITH DISTINCTION

Sidney Bernhard Rebers, Minneapolis, Forestry
 Theodore Paul Reiling, St. Paul, Agriculture
 Kern Sherwood Ridlington, St. Louis Park, Forestry
 William Arthur Robbins, St. Paul, Agriculture
 Stanley Burroughs Roberts, St. Louis Park, Agriculture
 Donald Charles Roder, Ortonville, Forestry
 Robert William Rowe, Duluth, Forestry
 Loren James Rychman, Minneapolis, Agriculture
 Leonard William Scarr, West Concord, Agriculture, WITH DISTINCTION
 Edwin Earl Schmalz, Minneapolis, Agriculture
 Roland Ernst Schoenike, Winona, Forestry, WITH HIGH DISTINCTION
 Gitta Schoenzeit, St. Louis Park, Home Economics
 Harry William Schroeder, Mankato, Science Specialization, WITH DISTINCTION
 Hollis Henry Schwartz, LeSueur, Agriculture
 Kermit Leroy Scramstad, Underwood, Forestry
 Paula Ann Sheppard, Lester Prairie, Home Economics
 Conrad LoWayne Singaas, Minneapolis, Forestry
 Roselyn Kathryn Skarsten, Benson, Home Economics
 Robert Gene Slusar, Warren, Agriculture
 Lawrence Eugene Smith, Jr., Minneapolis, Forestry
 Myrle Maxine Solomon, International Falls, Home Economics
 Warren L. Sontag, Heron Lake, Forestry, WITH DISTINCTION
 Richard Arthur Stapleton, Ladysmith, Wis., Forestry
 Robert H. Steinkraus, Jr., St. Paul, Veterinary Medicine, WITH DISTINCTION
 Howard Clair Stevermer, Easton, Agriculture
 Herbert William Stoltenberg, A.A., Simpson, Forestry
 Harold Leo Strandberg, Mahtowa, Veterinary Medicine, WITH HIGH DISTINCTION
 Lavon John Sumption, Longville, Agriculture, WITH DISTINCTION
 Leland Norris Sundet, Spring Grove, Agriculture
 Charlotte Ann Swanson, Ortonville, Home Economics
 Barbara Mae Swendiman, Dexter, Home Economics
 Elroy Milton Thom, Underwood, Veterinary Medicine
 Roy Lloyd Thompson, Kensington, Agriculture
 Rosemary Louise Tomfohr, Chisholm, Home Economics
 Charles William Towne, St. Cloud, Veterinary Medicine, WITH DISTINCTION
 Wallace Leigh Truman, Onamia, Forestry
 Jack Clarence Tucker, Emily, Forestry
 John Boylan Vandercar, Chicago, Ill., Forestry
 Duane Venekamp, Ruthton, Agriculture
 Betty Lou Helyn Voth, Minneapolis, Home Economics
 Wallace Milton Wass, Worthington, Veterinary Medicine, WITH DISTINCTION
 Robert Leslie Webb, Medford, Agriculture
 Rufus Frank Weidner, Casco, Wis., Veterinary Medicine
 David Potter Wells, Minneapolis, Forestry
 Philip James Whalen, Stephen, Veterinary Medicine
 Merritt Whitacre Wheeler, Jr., St. Paul, Agriculture
 Kenneth Arthur Wickstrom, Isanti, Forestry
 Stanford Joel Wilson, Round Lake, Veterinary Medicine

Walter Harlan Wolner, Minneapolis,
Agriculture
Sara Jean Wyatt, Minneapolis,
Home Economics
Barbara Claire Zaffke, Backus,
Home Economics

Leo Anthony Zehrer, Sauk Centre,
Veterinary Medicine
Rudolph William Zielke, Shawano,
Wis., Forestry

Master of Forestry

Dixon Lane Sandberg, B.S., Rice Lake, Wis.

Doctor of Veterinary Medicine

Arch Ferguson Alexander, B.S.,
Minneapolis
Wesley Dean Anderson, B.S., St. Paul
Goodwin Bennett Branstad, Grants-
burg, Wis.
John Edward Busch, B.S., Morris
Paul John Cox, St. Paul
Vernie Lester Dahl, B.S. with
distinction, Arlington
John Edward Fogarty, Belle Plaine
William Ernest Gladitsch, B.A., B.S.,
Gaylord
Donald Burgess Hicks, B.S., Tracy
Ronald Bruce Hohn, B.S., St. Paul
Stanley George Jepson, B.S., Sacred
Heart
Robert Michael Leary, New Ulm

Paul Dewey Lundgren, B.S., Minne-
apolis
Walter Joseph Mackey, B.S., Silver
Lake
Glen Harold Nelson, Brainerd
Vern Frank Olson, B.S., Anoka
Kenneth Gordon Palmer, B.S.,
Forest Lake
Robert Gordon Pyle, Waconia
Lester Joseph Redder, Canby
Conway Joseph Rusell, B.S., Stillwater
Ithel Arie Schipper, B.S., M.S.,
Wayzata
David Wayne Stanley, B.S., Fergus
Falls
James Henry Stewart, B.S., Minne-
apolis

COLLEGE OF EDUCATION

Bachelor of Science

Earl Bruce Adams, Jackson
Roger Morrison Adams, St. Paul,
WITH DISTINCTION
Hollace Wendell Adkins, Jr., Minne-
apolis
Howard Paul Akenson, B.B.A., Minne-
apolis
Glen Allen, Park Rapids
Helen Louise Amundson Allen, Min-
neapolis, WITH DISTINCTION
Carol Jane Allison, B.A., St. Paul
Warren John Alm, Minneapolis
Harold Christian Amland, St. Paul
Arline S. Anderson, Minneapolis
Audreen Jean Anderson, Minneapolis,
WITH DISTINCTION

Bette Mae Anderson, Cooperstown,
N.D.
Bonnie Mae Anderson, St. Paul
Carl Leonard Anderson, Jr., Minne-
apolis
Dorothy Lenore Anderson, Minne-
apolis
Gretchen Anderson, Minneapolis
Marilyn Ann Anderson, Minneapolis
Robert Charles Anderson, Minne-
apolis
Stuart Jay Anderson, B.A., Buhl
Jermaine Delos Arendt, St. Paul
Elizabeth Irene Arneson, Minne-
apolis

Richard Terance Atherton, Minneapolis
 Berger R. Aulie, Minneapolis
 Laura Alice Babcock, Minneapolis
 Robert O. Bachelder, Stillwater
 Duane O. Baglien, Minneapolis
 Edva Luella Bakke, Twin Valley
 Janet Irene Bakke, Redwood Falls
 John Richard Bannon, B.A., St. Paul
 Robert Andrew Barquist, A.A., St. Paul
 Marcia Dean Batts, R.N., Grand Rapids, Mich.*
 Jane VanHorn Beard, R.N., Mena, Ark.*
 Blanche Ruth Becker, Benson*
 Elizabeth Ann Belan, B.A., Minneapolis
 John Lorenzo Belk, B.C.E., Bismarck, N.D.
 Frank Alexander Bengtson, Minneapolis
 Robert Andrew Bennett, B.A., Albert Lea, WITH DISTINCTION
 Loren Lane Benson, Deer River
 Nancy Lorena Berens, Excelsior
 Gordon T. Berg, A.A., Minneapolis
 Jeanne Vivian Bergevin, Minneapolis
 Donna Mae Berggren, Minneapolis
 Keith M. Bergstrom, St. Paul
 Rita Berkovitz, St. Paul
 William Frederick Bicanich, Chisholm
 Ruth Boese, Holloway
 Illene Pink Bolter, Minneapolis
 Lu Ellen Frances Bovee, A.L.A., Minneapolis
 James Adrian Bower, Waseca
 Beverly Ann Brandon, Fergus Falls
 Beverly Ann Brandt, Minneapolis*
 Hazel Marie Breit, Minneapolis
 Jean Olson Brooks, Minneapolis, WITH DISTINCTION
 Mildred Josephine Brudvig, B.A., Fairmont
 James H. Buckley, Duluth
 Grace Elizabeth Bunke, Rushford, WITH HIGH DISTINCTION*
 Barbara Helen Butler, A.A., Springfield, Ill.

Mary Ellen Butterfield, B.S., Minneapolis
 Alvah Pratt Byers, Minneapolis
 Charles Layton Byrne, Minneapolis, WITH DISTINCTION
 Richard DeMott Byrne, Minneapolis, WITH DISTINCTION
 Delores Ruby Carley, White Bear Lake
 Dorothy Grace Martinson Carlson, A.A., Manistique, Mich., WITH DISTINCTION*
 Wallace Alton Carlson, A.A., Minneapolis
 Marian Gertrude Caron, B.S. in Nursing, Currie*
 Raymond Harlan Case, Minneapolis
 Joan Marie Chantler, Minneapolis, WITH DISTINCTION
 James Greye Cherry, Jr., Minneapolis
 Elizabeth Louise Christensen, Valley Springs, S.D., WITH DISTINCTION
 Jacqueline Arlene Christensen, Minneapolis
 Theodore Zinter Christensen, St. Paul, WITH DISTINCTION
 Louis Christiansen, St. Paul
 Eugene Robert Christy, Minneapolis
 Marjorie B. Church, R.N., Greenfield, Iowa*
 Patricia May Cluff, Minneapolis
 Patrick James Codute, Nashwauk
 Jacqueline Jane Collins, Minneapolis
 Carol Joan Cooper, Minneapolis
 Frederick Stephen Cooper, Minneapolis
 Mary Jane Wilcox Cooper, B.A., M.A., St. Paul
 Gerald Wilbur Cox, Minneapolis, WITH DISTINCTION
 Lenore Cranston, Grey Eagle
 Margaret NancyLu Culhane, Minneapolis, WITH HIGH DISTINCTION
 Betty Pauline Curle, Minneapolis, WITH DISTINCTION
 Marilyn Rath Dahle, Minneapolis
 Douglas Mathew Dahlheimer, B.A., Dayton
 Rohland Arthur Dahlquist, A.A., St. Paul

* Nursing Education Curriculum.

Linden Wright Dahlstrom, St. Paul
 Elsie Ione Dalager, Glenwood, WITH
 DISTINCTION*
 Anabelle Shirley Hanson Dalberg,
 Minneapolis, WITH DISTINCTION
 Ada Carolyn Danielson, St. Paul
 Harriet Alice Dawley, Clearwater,
 Fla., WITH HIGH DISTINCTION*
 Diane Elizabeth DeLaurier, Canby
 Merle Agnes Dickinson, Bemidji
 Janet May Dillan, San Mateo, Calif.
 Donald Alfred Dochterman, Minne-
 apolis
 Marion Phyllis Dongoske, Mound
 Juliet Donn, Minneapolis
 Rita Faye Donwen, Jackson
 Virgil A. Duncer, B.A., Minneapolis
 Arthur Stephenson Dunning, Jr., B.A.,
 Minneapolis
 Nancy Edes, Glen Lake, WITH
 DISTINCTION
 William Edgar, St. Paul
 Wallace Reid Edlund, Minneapolis
 Alice Linnea Edwall, A.A., Minne-
 apolis, WITH DISTINCTION
 Barbara Ann Ellig, Aitkin
 Dorothie Helen Elliott, G.N.,
 St. Paul, WITH DISTINCTION*
 Lorraine Mae Elverson, B.F.A., Min-
 neapolis
 Donald Arne Embretson, B.A., Rob-
 binsdale
 M. Elizabeth Engler, Minneapolis,
 WITH DISTINCTION*
 Donald Eugene Englund, Red Wing,
 WITH DISTINCTION
 Charles Frederick Erickson, Minne-
 apolis
 Joan Ruth Erickson, Minneapolis
 Ruth Alice Erstad, Boise, Idaho
 Phyllis Marilyn Evenstad, Thief
 River Falls
 Sarah Louise Feigal, Redwood Falls,
 WITH DISTINCTION
 Shirley Wasserman Fine, B.S., M.S.,
 Philadelphia, Pa.
 Ramon Stephen Firnstahl, St. Paul
 Gordon Arne Flikeid, A.A., Minne-
 apolis
 Alvin Marlowe Flom, Minneapolis
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 WITH HIGH DISTINCTION*
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 Charles Wheat Foster, Minneapolis
 Sylvia Fraser, St. Paul
 Gladine Sara Freedline, Reynolds-
 ville, Pa.*
 Charlotte Patsy Wohl Freeman,
 St. Paul
 Elizabeth Ellen Reed Frigstad,
 Elmore*
 Marilyn Margaret Furey, St. Paul
 Merritt Ralph Gamache, Grand
 Rapids
 Loretta Margaret Garner, Detroit,
 Mich., WITH DISTINCTION*
 Joan Ann Sallye Garrigan, B.A.,
 Baltimore, Md.
 Jerome Edward Gates, Minneapolis,
 WITH DISTINCTION
 Norma Geretz, B.A. cum laude,
 Minneapolis
 Lorraine H. Gerold, St. Cloud
 Barbara M. Getchell, Minneapolis
 Frank Giacomo, Jr., A.A., Gilbert
 Foster R. Gibson, Beaver Creek
 Laverna Darlene Gillette, Minne-
 apolis, WITH DISTINCTION
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 Bernice Mildred Gordon, Montrose,
 S.D.
 Richard Fredrick Graber, Granite Falls
 Roy Robert Gram, Nashwauk
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 Frank Ransom Gray, Minneapolis
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 Ill.*
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 N.D., WITH DISTINCTION
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 Eugene Morris Guckenburg, Albert
 Lea, WITH DISTINCTION
 Leonard Anthony Guggemos,
 Nazareth, Tex.
 Lillian Mary Gulden, Minneapolis
 Beverly L. Gustafson, Wayzata

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Charles Milton Hagen, Minneapolis,
 WITH DISTINCTION
David Alan Hagen, Underwood, WITH
 DISTINCTION
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*Colo., WITH DISTINCTION**
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Helen Louise Hammett, R.N.,
*Gadsden, Ala.**
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Lois Jane Hanson, Minneapolis, WITH
 DISTINCTION
Virginia Mae Hanson, Fergus Falls
Ruriko Harada, Minneapolis
Phyllis June Harrington, B.S., in
*Nursing, St. Paul**
Robert Maurice Harris, Delavan
Susan McDonald Hart, Minneapolis
Richard Roman Hartman, B.Aero.E.,
Minneapolis
Douglas Procter Hatfield, St. Paul,
 WITH DISTINCTION
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Mary Kathryn Hayward, Minneapolis
Joseph George Hembd, Minneapolis
*Hazel Helen Heidtke, Somonouk, Ill.**
Jeannette Grace Lang Helfinstine,
Minneapolis
Lincoln Raymond Henderson, Jr.,
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Othmar Bernard Henkel, St. Cloud
Beverly Mae Henningsen, Minneapolis
Wilma Jean Hensel, Good Thunder
Henry Burton Hicock, B.A.,
Cheshire, Conn.
*Bernice Mary Hill, San Antonio, Tex.**
Mary Ann Hoehn, Princeton
Corinne Hofstedt, Minneapolis
Ann Josephine Hoiland, Minneapolis
Rosamer Anthony Holl, Minneapolis
Marilyn Nelson Holland, B.A., Min-
neapolis
Jane Holman, B.A., M.S., Minne-
apolis
Francis Michael Hoye, Minneapolis
Richard Joseph Hughes, B.A., Min-
neapolis
David Henry Hulse, St. Paul
Lois Murl Hutchinson, Minneapolis,
 WITH HIGH DISTINCTION
Stephen John Iverson, St. Louis Park

James Robert Jacobson, Aitkin
Milton Durwood Jacobson, Minne-
apolis
Muriel Alma Jacobson, Minneapolis
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apolis
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Marilyn Ann Johnson, A.A., Waseca
Marion Louise Myrland Johnson,
Minneapolis
Morris Neal Johnson, Stillwater,
 WITH DISTINCTION
Ruth Carolyn Johnson, Villard
James Jones, Minneapolis
Mary Joyce Jordan, St. Paul
William Thomas Jordan, Minneapolis
Helen Jorgensen, Lake Benton
Jean Muriel Judson, Minneapolis
John David Kalton, Wells
Rosemary Therese Kammerer, St. Paul
Raquel Deborah Kaufman, Brooklyn,
N.Y., WITH DISTINCTION
Charles James Kauth, Minneapolis
Paul Benton Kelley, Hopkins
Grace Elizabeth Kelly, DeGraff
William Chester Kelsey, St. Paul Park
Mary Jean Kelsven, Hazen, N.D.
Elizabeth Kendall, West Hartford,
*Conn.**
Ann Coffman Kisner, Minneapolis
Barbara Ann Kistner, Indianapolis,
*Ind.**
Edith Ruth Klabunde, St. Paul
Stanley Luther Kleven, B.A., Minne-
apolis
Wallace Owen Knowles, Minneapolis
Astrid Lucille Knutson, Ames, Iowa,
 WITH DISTINCTION
Barbara Joy Koempel, White Bear
Lake
Idell Phyllis Kogen, A.A., St. Paul

* Nursing Education Curriculum.

Ralph Thomas Kolsrud, Cambridge
 Elizabeth Jean Kopp, Winona
 Phyllis Ann Korbel, Pine City
 Milbert Cameron Korfhage, Minneapolis
 Robert Lee Kraker, Virginia
 James Henry Kruskopf, Minneapolis,
 WITH HIGH DISTINCTION
 Diane Ruth Kueffner, St. Paul
 Sherman Donald LaBelle, A.A., Minneapolis
 John Patrick Lamb, B.A., Minneapolis
 Lois Harrisville Lamson, St. Paul
 Grace Louise Landmesser, Minneapolis
 Reuben William Langhans, St. Paul
 William Edward Lapitz, Britt, Iowa
 Ruth Bernice Larson, St. Paul, WITH
 DISTINCTION*
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 Donna L. Lee, Dundas, WITH
 DISTINCTION
 Joan Marie Leicester, Minneapolis,
 WITH DISTINCTION
 Dorothy Adel Leifson, St. Paul
 June Ruth Leirich, North St. Paul
 Donald Edward Lemire, Minneapolis
 Elizabeth Milton Bull Lenox, Minneapolis,
 WITH DISTINCTION
 Norma Bernice Levang, Minneapolis,
 WITH HIGH DISTINCTION
 Claire Babette Levine, St. Paul, WITH
 DISTINCTION
 Beverly Jean Lewis, B.A., St. Paul
 Marilyn Jean Lindberg, Cambridge,
 WITH DISTINCTION
 Marjorie Louise Lindberg, Buffalo
 Marian Louise Lofgren, A.L.A., Minneapolis
 Chester Ferdinand Long, Minneapolis
 Donald Thomas Lounberg, B.A.,
 Minneapolis
 Kathryn Ann Ludescher, Delano
 Huldah Marie Lunder, Minneapolis
 Bruce Glenn Lunkley, Minneapolis,
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 Mary Louise MacLaughlin, Minneapolis,
 WITH DISTINCTION
 Virginia Elaine Mahan, Chisholm*
 James Sam Malosky, Crosby
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Robert Charles Marien, St. Paul
 Mary Margaret Martin, Hopkins,
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 Sol Mastbaum, St. Paul
 Elwood Keith Mathew, Osseo
 Helen Maunsell, Minneapolis
 Adell Rose May, St. Paul
 Frank May, St. Paul
 Diane Fay Mayhew, Minneapolis
 Alice Lorraine McCann, Minneapolis,
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 Gertrude Claire McConnell,
 Rochester
 Joan Geraldine McCue, Rochester,
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 William P. McLain, Minneapolis
 Janet Elaine McLeland, Minneapolis
 James D. McLeod, Minneapolis
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 Arthur Chandler McWatt, St. Paul
 Elizabeth Bradford Mead, Minneapolis,
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 Elizabeth Estelle Merrill, St. Paul
 Mary Louise Mettler, Minneapolis
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 Kathryn Marthena Miller, Dayton,
 Ohio*
 Leslie Dorn Miller, Bagley
 Harold Mirka, International Falls
 John Donald Mullaney, St. Paul
 Evelyn Leona Murray, Minneapolis
 John Patrick Nagle, B.A., St. Paul
 Corinne E. Navratil, Hopkins
 Carol Catherine Nelson, Minneapolis
 Carolyn Juul Nelson, Minneapolis
 Edwin Richard Nelson, A.A., Rush
 City, WITH DISTINCTION
 Nancy Ann Nelson, A.L.A., Minneapolis
 Shirley Eloise Nelson, Minneapolis
 Ruth Elaine Neumann, St. Paul
 Ruth McHardy New, B.A., Minneapolis
 Charles Robert Newman, Kasota
 Marjory Wisnom Newton, Minneapolis,
 WITH DISTINCTION

* Nursing Education Curriculum.

LeRoy Harold Nielsen, Albert Lea
John Francis Noehl, A.A., Pine Island,
 WITH DISTINCTION
 Philip Spencer Norrdin, A.A., Minne-
 apolis
 Ralph William Notto, St. Paul
 Irene Carolyn Nyquist, Minneapolis
 Marion Kathleen Odberg, Minne-
 apolis, WITH DISTINCTION
 Eileen Margaret O'Donnell, Minne-
 apolis
 Nancy Waters O'Donnell, Minne-
 apolis
 Nora Hisano Okada, B.A., Honolulu,
 T.H.
 Shirley Mae O'Keefe, Foley
 Clarence Emil Olander, Buhl, WITH
 DISTINCTION
 Donald Edward Olson, Eden Valley
 Herbert Adrian Olson, St. Paul
 Lillian Winnifred Olson, Minneapolis,
 WITH DISTINCTION
 Margaret Ruth Olson, Minneapolis
 Theodore Berton Olson, B.A., Shevlin
 Wendell William Olson, Minneapolis
 Barbara Jean O'Neill, Minneapolis
 Robert Denis O'Neill, A.A., St. Paul
 Robert A. O'Rourke, Minneapolis
 David Norman Osterberg, B.A.,
 St. Paul
 Kenneth Elmer Osvold, Esko
 Shirley Weyer Osvold, Blue Earth
 Wanda Piper Owens, B.A., St. Paul
 Marion Findley Ownbey, B.A.,
 Minneapolis
 Thomas Pallo, Minneapolis
 Stanley James Palm, Minneapolis
 Kathryn Josephine Panian, St. Paul
 Joyce Dalrymple Parks, Minneapolis
 Patricia Paul, A.A., Rochester
 George William Paulsen, Minneapolis
 Erna Janzen Paulsrud, Nielsville
 Walter Eldon Pederson, Madelia,
 WITH DISTINCTION
 John Adrian Peltier, Chokio
 James Anthony Perry, Minneapolis
 Carroll Eugene Peter, Elmore
 William Greenfield Peters, St. Paul
 Duane Gray Petersen, Minneapolis
 Grace Geraldine Peterson, Cleveland,
 Ohio, WITH DISTINCTION*

Inez Jeannette Peterson, St. Paul
 Marilyn Jean Peterson, South St.
 Paul, WITH HIGH DISTINCTION
 Richard George Peterson, B.A., Min-
 neapolis
 Richard Sayer Peterson, B.A., Minne-
 apolis
 Judy Ann Philipp, Minneapolis, WITH
 DISTINCTION
 Norman Dale Pippin, B.A., St. Paul
 William Harold Pontinen, A.A.,
 Virginia, WITH DISTINCTION
 Shirley Mae Price, Minneapolis,
 WITH HIGH DISTINCTION
 Eugene Thomas Quinn, St. Paul
 Daniel Joseph Radford, Minneapolis
 Betty Jane Reed, Minneapolis, WITH
 HIGH DISTINCTION
 Richard Miles Regedal, Beltrami
 Mary Jane Stranahan Richardson,
 B.A., Duluth
 Donna Jean Elaine Ridgley, A.A.,
 Minneapolis
 Carol Adele Rieder, Buffalo
 Juliann Ritter, B.A., Clarksburg,
 W.Va.*
 Jeanne Patton Robb, Minneapolis
 Lory Wilson Roberts, New York Mills
 Marvin Jerold Rosen, St. Louis Park
 Zyrle Debois Roser, Kandiyohi
 Rosemary Patricia Roy, St. Paul
 Dorothy Alice Runkle, St. Louis Park
 Norman Adolph Rustad, Black River
 Falls, Wis.
 Eleanor Agnes Ruud, Crookston
 Patricia Ann Ryan, St. Paul
 Richard Thomas Scanlan, St. Paul,
 WITH DISTINCTION
 August David Schauer, St. Paul, WITH
 DISTINCTION
 Mary Ellen Schiefelbein, A.A., Min-
 neapolis
 Louden Arthur Schlagel, Minneapolis
 Camilla Rebecca Schloemer, West
 Bend, Wis., WITH HIGH DISTINC-
 TION*
 Dorothy Edna Schmalz, St. Paul,
 WITH HIGH DISTINCTION
 Arthur Robert Schmidt, Minneapolis
 Lawrence Delmar Schmidt, St. Paul

* Nursing Education Curriculum.

John Louis Schneider, Minneapolis,
WITH HIGH DISTINCTION

Zella Schneidman, A.L.A., Minne-
apolis

Elizabeth Latterell Schraeder, Minne-
apolis

Marion Luise Schrupp, Arlington

Paul Fredrick Schultz, St. Louis Park

John Lewis Schummers, A.L.A., Min-
neapolis

Eileen Zita Scully, Minneapolis

Eileen Ramona Seabloom, Crookston

Shelley Kaufman Segal, Minneapolis

Yvonne Anne Selen, Minneapolis

Charles Ardell Sell, Mayer

Laurel J. Edwards Shepel, A.A., Ely

Patricia Ruth Sheridan, Minneapolis

Shirley Rose Sherman, Minneapolis

Harold Marvin Singer, Duluth

Wenonah Esther Sipola, St. Paul

Myer Upton Skoog, Brainerd

Johnella Maude Smith, Jackson,
Tenn.*

Leonard Bernhard Sobanja, St. Paul

Mary Alice Spaeth, B.A., St. Paul

Arlene Barbara Specktor, A.L.A.,
St. Paul

Doris Marie Starr, B.A., M.A., Minne-
apolis

Patricia Jeanne Steele, St. Paul

Marilyn Jeanne Sterner, Minneapolis

Eloise Ann Sterrie, B.A., St. James

Norma Ann Nash Stout, Baudette

Herbert Richard Stromquist, B.A.,
Minneapolis

Marjorie Ann Stronach, Redwood
Falls*

Barbara Joan Strong, Waconia

Margaret Jeane Sullivan, Grand
Rapids

Catherine Louise Sulzbach, Minne-
apolis

Mitsugu Sumada, Minneapolis

Lorraine Delores Sundal, Albert Lea,
WITH DISTINCTION

Clarence Alden Swanson, Bagley

Helen Huset Swanson, Minneapolis

Marion Jeanette Swanson, Minne-
apolis

Phyllis Lorraine Swanson, Gonvick

Robert Merle Swanson, St. Paul
Signe Elvera Swanson, Minneapolis
Carl Allan Tamminen, Hibbing,

WITH DISTINCTION

Barbara Allinson Teachout, Minne-
apolis

Nancy Roselyn Teien, Benson

Mary Agatha Tekautz, Tower

Stuart Arthur Telecky, Minneapolis,

WITH DISTINCTION

John Hagop Terjelian, Arlington,
Mass.

Robert George Tetzner, A.A., St. Paul

Kathryn Louise Thiele, Madison

Harold Eugene Thill, St. Paul, WITH

DISTINCTION

Frances Pauline Thorp, Phoenix,
Ariz.*

Virginia Lee Thurston, Sioux Falls,
S.D., WITH DISTINCTION

Robert Merlain Tofte, Zimmerman

Murrell Colleen Towne, Minneapolis

Phil Trautner, Minneapolis

Edith Elaine Trembath, Marble,

WITH DISTINCTION

Helen Lucille Tucker, Eureka Springs,
Ark., WITH DISTINCTION*

Dorothy Elaine Tupper, B.S., Edge-
mont, S.D.*

Alice Ann Tuseth, Beltrami

Leonard Raphael Vertnik, A.S., Ely,

WITH HIGH DISTINCTION

Reinelda Elizabeth Vickey, G.N.,
Erie, Pa.*

Edward John Vukelich, Gilbert

Mary Frances Wagner, Minneapolis,

WITH DISTINCTION

Patricia Joy Wagner, Minneapolis

Hazelle W. Walstad, Northfield*

Everett Max Walton, Glenburn, N.D.

Roman Francis Warmke, Easton

Thomas M. Warner, Minneapolis

Patricia Ann Warrington, A.L.A.,

Minneapolis, WITH DISTINCTION

William Thomas Wasnick, Anoka

Mary McRoberts Weber, St. Paul

Lois Grapp Weigand, Minneapolis

Arlene Aretta Welch, Akeley

Norman William Welch, St. Paul

Arlene Virginia Wells, Minneapolis

* Nursing Education Curriculum.

Martha Wendell, Minneapolis*
 Lawrence William Werner, Delavan
 Doris Jane Westby, Houston, WITH
 DISTINCTION
 Frank Joseph Wethern, B.A., St. Paul
 Marjorie Irene Wetterstrom, St. Paul
 Dean Hamilton Whitney, Minne-
 apolis, WITH HIGH DISTINCTION
 Richard Selden Wilcox, St. Paul,
 WITH DISTINCTION
 Eugene Jerome Wilhelmi, St. Paul
 Richard Victor Willenbring, Minne-
 apolis
 Helen Ann Wilson, A.A., St. Paul
 Donna Wimmer, Minneapolis*
 Margaret McCollister Wood, St. Paul,
 WITH DISTINCTION

Anita Jean Woolbridge, Minneapolis,
 WITH DISTINCTION
 Betty Marie Wotruba, Hayfield
 Alice Mary Yetka, Forest Lake, WITH
 DISTINCTION
 Albert John Young, Minneapolis
 Robert Eugene Young, St. Paul
 Vardon Jerome Young, Granite Falls
 Anne Marie Zeitler, St. Paul
 Gertrude Marie Zeitler, St. Paul
 Gerald Ramon Ziebeck, B.B.A.,
 Crookston
 Eugene Clarence Zillgitt, Red Wing,
 WITH DISTINCTION
 Joan Stott Zimmer, St. Paul

Bachelor of Science in Library Science

Shirley Mae Brady, B.A., St. Paul
 Jean Marie Gable, B.S., Minneapolis
 Elinor Jeanne Heath, B.S. in Ed.,
 Minneapolis
 Richard Joseph Hofstad, B.S., Min-
 neapolis
 Marjorie Irene Humby, B.S.M.,
 Waterloo, Iowa
 Rudolph Johnson, B.A., M.A., Duluth
 Barbara Moody, B.S., M.Ed., Excelsior
 Jean Olive Potter, B.S., Neenah, Wis.
 Estelle Lorraine Prestemon, B.S.,
 Bagley

Gerald Leroy Rialson, B.A., Minne-
 apolis
 Jeanne Carol Strupp, B.S., Oshkosh,
 Wis.
 Evelyn Joyce Swenson, B.S. in Ed.,
 Canby
 Marjorie Rachel Whitney, B.S., M.A.,
 Minneapolis
 Lucille Everettina Wren, B.S. in Ed.,
 Kincaid, Kans.
 Mary Elizabeth Zeimetz, B.S. in Ed.,
 Minneapolis

Master of Education

Victor VaLasie Bitu, B.S., Winona
 Marlain Joyce Brufloft, B.S., Milaca
 Mary Ellen Butterfield, B.S., Minne-
 apolis
 Joseph Paul Disch, B.S., Minneapolis
 Ruth Barker Harries, B.S., Minne-
 apolis
 Ellen Yoshi Okagaki, B.A., Minne-
 apolis

Kenneth Thomas Parent, B.S., Foley
 Sister Mary Ancille Vertin, B.A.,
 St. Joseph
 Lucile Estelle Stewart, B.A., Salina,
 Kans.
 Loren Miller Thorson, B.A., Water-
 town
 Dorothy Martha Waldmann, B.A.,
 Minneapolis

COLLEGE OF EDUCATION AND COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE

Bachelor of Science

- Robert Gordon Anderson, Cook, Agricultural Education
- Willard Wayne Anderson, Adams, Agricultural Education
- Verna Jean Becker, Buffalo, Home Economics Education
- Malcolm Ray Brandt, Hanska, Agricultural Education
- Alan Fayette Cook, Farmington, Agricultural Education
- James Philip Crawford, B.S., Beaver Creek, Agricultural Education, WITH DISTINCTION*
- Lois Elizabeth Czaia, Minneapolis, Home Economics Education
- Ervin George DeMuth, Long Prairie, Agricultural Education
- William Edward Dorsey, Pillager, Agricultural Education
- Laura Elizabeth Eide, Minneapolis, Home Economics Education
- John Richard Eix, Little Falls, Agricultural Education
- Wendell Oliver Erickson, Stanchfield, Agricultural Education
- Joyce Elizabeth Fischer, Minneapolis, Home Economics Education
- Charlotte Laura Fitch, St. Paul, Home Economics Education
- Leland Charles Frederick, Westport, Agricultural Education
- Ruth Evelyn Fredrickson, Santa Cruz, Calif., Home Economics Education
- Beverly Jane Fretham, Waseca, Home Economics Education
- Joan Natalie Gardner, Browerville, Home Economics Education
- Shirley Jean Gilbertson, Lake Park, Home Economics Education
- Norma Bernice Grimm, Minneapolis, Home Economics Education
- Mary Louise Gronvall, Minneapolis, Home Economics Education
- Muriel VeLorre Halvorson, Clearbrook, Home Economics Education
- Leslie Myron Hanson, Montevideo, Agricultural Education
- Judy Kazue Hayano, Minneapolis, Home Economics Education
- Donald Merlin Hitterdal, Hitterdal, Agricultural Education
- Delbert Leslie Hodgkins, Waldorf, Agricultural Education
- Jeanne Ness Johnson, New London, Home Economics Education
- Merald Curtis Johnson, Granite Falls, Agricultural Education
- Edith Ann Keese, Winona, Home Economics Education, WITH DISTINCTION*
- Joseph John Kelcher, Tracy, Agricultural Education
- Wilho Albo Kemp, Duluth, Agricultural Education
- Marian LaVerne Klatt, Danube, Home Economics Education
- Doris Jeannine Knickerbocker, Annandale, Home Economics Education
- Donald Gaard Larsen, A.A., Grand Rapids, Agricultural Education, WITH DISTINCTION*
- John Robert Larson, Cambridge, Agricultural Education, WITH DISTINCTION*
- Lloyd Arvid Larson, Atwater, Agricultural Education
- Shirley Marion Laukka, Virginia, Home Economics Education, WITH DISTINCTION*
- Phyllis Elaine Lerud, Twin Valley, Home Economics Education
- George Arthur Moe, Dodge Center, Agricultural Education
- Robert Joseph Novotny, New Prague, Agricultural Education
- Barbara Myrne Oberg, Blackduck, Home Economics Education
- Alfred Willard Olson, Hawley, Agricultural Education

Norma Lois Orth, Windom, Home
Economics Education
Kenneth Howard Ostlund, Verndale,
Agricultural Education
Patricia Ann Pagnucco, Virginia,
Home Economics Education
Blythe Helene Parriott, St. Paul,
Home Economics Education
Maxine Ruth Radant, St. Paul, Home
Economics Education
*Harlund Gustav Routhe, Redwood
Falls, WITH DISTINCTION*
Melvin Raymond Salmela, Floodwood,
Agricultural Education
Rose Ann Elaine Sands, Alvarado,
Home Economics Education

Russell LaVern Scott, Pelican Rapids,
Agricultural Education
Florence Margaret Selway, A.A., Buf-
falo, Home Economics Education
Jean Margaret Slade, Minneapolis,
Home Economics Education
Marilyn Louise Stoneman, Minne-
apolis, Home Economics Education
Harold Richard Swanson, Floodwood,
Agricultural Education
Richard Emil Swanson, Little Falls,
Agricultural Education
Clarence Arthur Tervola, Ottertail,
Agricultural Education
Joyce Petersen Youngren, Kerkhoven,
Home Economics Education

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Harvey Charles Aaron, St. Paul
John Merritt Aldritt, Minneapolis
Stanley Nevin Allen, Mound
Edmund Oscar Anderson, Minne-
apolis
Jonn Harold Anderson, Minneapolis
Wesley John Anderson, Minneapolis
*Hillel Samuel Aronson, Minneapolis,
WITH HIGH DISTINCTION*
Robert Lloyd Aspenson, Minneapolis
John David Aylmer, Benson
Grant Leroy Baere, St. Paul
Vern Gilman Bandel, Rochester
*Roger Frederic Barrett, Minneapolis,
WITH DISTINCTION*
Lloyd William Behler, St. Paul
Lawrence Bayley Bell, Virginia
Kenneth Herbert Bennett, Elkader,
Iowa
Roger Allen Berg, Willmar
Richard John Berry, Minneapolis
*Earl Swan Blewett, A.L.A., Park
Rapids, WITH DISTINCTION*
Zola Bernard Blicher, A.L.A., Minne-
apolis
Richard S. Bloomberg, Minneapolis
Herbert Arthur Bly, B.M.E., Mound
Adrian Arthur Boie, New Richland
Charles D. Brainard, A.A., St. Cloud
James Robert Brooks, Minneapolis

Kaye Bonita Brown, McClusky, N.D.
Blaine C. Burdick, Lake Mills, Iowa
Roy Blake Burns, Jr., Minneapolis
Robert James Buscher, Mankato
*James Edward Bye, Anoka, WITH HIGH
DISTINCTION*
Wendell Oliver Carlson, Sioux City,
Iowa
*Robert Dale Christensen, Oldham,
S.D., WITH DISTINCTION*
Donald Allen Christenson, Litchfield
Thomas Bruce Coulter, St. Paul
John David Davidson, Minneapolis
Wesley Emil Dirks, Springfield
Arthur William Docken, Minneapolis
James Henry Dolan, Minneapolis
Eugene Irwin Edie, Rudd, Iowa
James Sidle Elfelt, Minneapolis
Sheldon Epstein, Minneapolis
Donald Edwin Ericksen, East Grand
Forks
*James Wendell Erickson, St. James,
WITH DISTINCTION*
Theodore H. Erickson, Kimball
Ronald Albin Everson, Aitkin
William Henry Farnum, White Bear
Lake
Harold Narcisse Faucher, Hopkins
Theodore Q. Feig, Minneapolis
Everett Vincent Fisk, Minneapolis

James Harold Foss, Prairie du Chien,
Wis.
Ronald Edward Franzen, Minneapolis,
WITH DISTINCTION
Newton Robert Fuller, Minneapolis
Ronald Lawrence Funk, Minneapolis
Wallace Joseph Greenstein, St. Paul
Clarence LeVerne Gribbon, Henning
Russell Duane Gribbon, Henning
Rodney Gordon Grimes, Minneapolis
Arnold Donald Gruys, Maple Lake
Eugene Morton Guffan, Minneapolis
James Richard Hansen, St. Paul
Flint E. Harding, Minneapolis
Richard Lionel Harris, Sutherland,
Iowa
Cecil H. Haugh, Little Falls
C. Barton Hedges, Minneapolis
Richard Dale Heir, Minneapolis
William Heffe Highum, Lanesboro
David Hinitz, New York, N.Y.
Max John Hofer, Minneapolis
James Lowell Hoff, Minneapolis
Walter John Hoffman, Hinckley
Melroy Gordon Hostager, Kenyon
Ronald Wayne Howard, Minneapolis
Ralph Arthur Huwe, St. Paul, WITH
DISTINCTION
Henry Tryke Jackson, Minneapolis
Kenneth Ernest Jackson, St. Paul
John Ralston Jerrard, St. Paul
Alvin Evald Johnson, Brainerd
Leonard LeRoy Johnson, Minneapolis
Lewis Walter Johnson, Breckenridge
Richard Fredrick Johnson, Owatonna
Roger Stanley Johnson, Dalbo
Roger William Johnson, Breckenridge
George Henry Johnston, Jr., Minne-
apolis
Arthur John Kane, Jr., Brewster
Paul Edward Kath, St. Paul
Donald Earle Keefe, Minneapolis
John Wayne Keeler, Chokio
John Robert Kelly, A.L.A., Minne-
apolis
John Arthur Kohler, Minneapolis
Richard Louis Kuelbs, Sleepy Eye
Jule Neiland Kvamme, Scanlon
Lauri Joseph Laakso, Soudan
Donald Albert Landstrom, Minne-
apolis

James Alvin Larson, Minneapolis
James Bates Law, St. Paul
Robert Hans Lee, Chicago, Ill.
Gerald Lifson, Minneapolis
George Wilson Lindberg, Duluth
Robert George Littlefield, B.Ag.E.,
St. Paul
Lloyd Vincent Lofgren, Winthrop
Edward X. Luiten, A.A., Grand Rapids
Donald David Lyttle, St. Paul
Harold Charles Macnamara, Minne-
apolis
John Daily Madsen, Minneapolis
Gerald Edward Magnuson, St. Paul,
WITH DISTINCTION
Alvin Sherman Malmon, St. Paul,
WITH HIGH DISTINCTION
Patrick Russell Malmsten, Minne-
apolis
Benedict Robert Maple, Minneapolis
Richard Owen Miles, Minneapolis
Robert Leland Mogg, Minneapolis
Donald Edward Monk, Hopkins
Richard James Mooney, Minneapolis
Robert Terrance Moran, Minneapolis
Joseph Roger Morrison, Hutchinson,
WITH HIGH DISTINCTION
Winston Ellsworth Munson, Minne-
apolis, WITH DISTINCTION
Lawrence Joseph Murphy, Minne-
apolis
Richard Dean Myklebust, Minne-
apolis
Donald Carl Nelson, Duluth
Kenneth Algot Nelson, B.S.L., Minne-
apolis
Elmo Vernon Ness, Minneapolis
Frank Duane Neuman, Superior, Wis.
John Frithiof Noble, Jr., B.A., Minne-
apolis
Donald Harry Noreen, St. Paul
Dennis Lindy Norell, Fingal, N.D.
Donald Oscar Nymoen, Minneapolis
Douglas Nelmar Odgaard, Minne-
apolis
Philip John Olfelt, Minneapolis
Laurence Edward Opheim, Eau Claire,
Wis.
Kenneth Robert Parker, Deer River,
WITH DISTINCTION
Herbert Donald Pass, Duluth

Horace James Paul, Minneapolis
 Marvin Jack Pertzik, St. Paul, WITH
 HIGH DISTINCTION
 Floyd Richard Peters, Minneapolis
 Richard Carl Petersburg, Kennedy,
 WITH DISTINCTION
 Norman Hebert Petersen, St. Paul
 Robert Lloyd Peterson, St. Paul, WITH
 DISTINCTION
 Raymond Joseph Petroski, Minne-
 apolis
 Julien Paul Philippy, St. Paul
 Frank Pickard, Jr., St. Cloud
 Thomas Arthur Pilkington, Chicago,
 Ill.
 John Douglas Powell, Thief River
 Falls
 Roland Edward Ramin, Minneapolis
 Edward Walter Reed, Rice Lake, Wis.
 Robert Emil Reedy, Minneapolis
 Otto Dietrich Rempel, Two Harbors
 Lowell James Resig, St. Paul
 Donald Richard Rowe, Minneapolis
 Thomas Ambrose Ryan, Marshall
 Arthur Bugge Schultz, Oslo, Norway
 James David Schwartz, St. Paul, WITH
 DISTINCTION
 Richard Harold Seeler, St. Paul
 Bernard Martin Sherman, Minne-
 apolis
 George Henry Smith, Minneapolis
 Leslie Otto Smith, A.A., B.A.,
 Hutchinson
 George Donald Soal, Minneapolis
 Harry Hans Solheim, Barnum
 Kermit Burdette Sorum, Jr., Minne-
 apolis
 Lester John Steidl, Hibbing
 Jerome Warren Stranahan, St. Paul
 David Allen Strom, Mankato
 Victor Stuntebeck, St. Paul
 Jerrold Jepson Sullivan, Brainerd
 Aloysius Thomas Super, Little Falls
 Arthur Leroy Swanson, Worthington
 Mahlon Howard Swedberg, Minne-
 apolis
 Charles Harry Sylvestre, Minneapolis
 Stanley Willoughby Thiele, Minne-
 apolis, WITH DISTINCTION
 Keith Rodney Thorson, Crookston,
 WITH DISTINCTION
 Alvin Robin Tilsen, Red Wing
 Richard Cullen Timmerman, St. Paul
 Owen Joseph Trainor, Jr., Savage
 Gerald Frank Vacha, St. Paul
 Edward Andrew Weber, New Kensing-
 ton, Pa.
 John Donald Webster, B.E.E.,
 St. Paul
 Honnen Sayre Weiss, Minneapolis
 Donald Joseph Wilson, Wahkon
 Vincent Otis Wollum, St. Paul
 Jerome Sherman Yugend, St. Paul,
 WITH DISTINCTION

Bachelor of Science in Economics

Philip H. Fladland, Stacy
 Eugene Max Fritze, LeSueur
 Carlyn Delphin Knudson, Farwell
 Delores Josephine Larson, St. Paul,
 WITH DISTINCTION
 Jack Thomas Morgan, Minneapolis

SCHOOL OF BUSINESS ADMINISTRATION AND COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE

Bachelor of Agricultural Business Administration

Samuel M. Hirabayashi, Minneapolis

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

John Richard Andrews, Bemidji
Merlin Edward Beise, Minneapolis
George Randolph Berttula, Virginia
Robert Eugene Bulger, St. Paul
Norman Marcus Carlson, St. Paul
Thomas B. Caughren, Osakis
Frank Harold Condon, Montevideo
Robert William Dahlin, Minneapolis
Darrel Leland Dyer, Houston
Rodney Charles Dziuk, Foley
Edward Oliver Eastwold, Minneapolis
Bernard Ecanow, B.Ch.E., Minneapolis
Arthur Leonard Eide, Minneapolis
Beatrice Ida Eischens, New Prague
Marcus Ross Frederickson, Isle
Mathew James Gagen, Shevlin
Stanley Adolph Gallup, Maple Plain
Walter I. Greenberg, St. Paul
Seymour Grossman, B.Aero.E., Willmar
George Harold Gullickson, Spring Valley
Lester Charles Hackner, St. Paul
Phillip Edward Hagen, New London
Roland Meredith Hammer, Dawson
Berkeley William Hanson, Montevideo
Arnold James Hillestad, Northfield
Ervin John Jacobs, St. Cloud
Arthur George Johnson, Jr., Litchfield
Neal Edward Johnson, Minneapolis
Raymond Alexander Emanuel Johnson, Pennock
Richard Gordon Johnson, Ihlen
Roger A. Koolick, Minneapolis
Colette Joyce Kotten, Sleepy Eye
Arthur Dale Kruger, Rochester
Marilyn Ione Lampe, Ely
Gerald Martin Landherr, Rose Creek
Conrad Oliver Larson, Jr., Virginia
Donald R. Larson, Crosby
Quentin Laurel Larson, Alexandria
Walter James Lay, Minneapolis
Maurice Leenay, Minneapolis
Vincent John Leisen, Jr., St. Cloud
Ann Linden, Winona
Richard George Lunzer, Minneapolis
Joseph Joe Markovich, Eveleth
Harry Noble Martin, St. Paul
Bernard Dean Melvin, DuQuoin, Ill.
James Robert Miller, St. Paul
Harold Arnold Moe, Milan
James Evon Nelson, Minneapolis
Richard Hagen Noreen, Minneapolis
Kent Norman Olson, Robbinsdale
James Edward Qualey, Menahga
Thomas James Rolseth, Forest Lake
Albert Edmund Ronzoni, Eveleth
Harold W. Smith, Fulda
George Donald Soal, Minneapolis
Roger Raymond Starn, Minneapolis
Albert W. Steinle, Minneapolis
Thomas Charles Stember, Ely
Donald Edwin Storaker, Luverne
Frank Arthur Streed, Jr., Minneapolis
Frank Stanley Stroncek, Jr., Minneapolis
Carl Norman Swanson, Minneapolis
Robert Perry Swedberg, Wolf Point, Mont.
Alvin Carl Tengvall, Benson
Virgil A. I. Thompson, Spring Grove
Jeanne Anna Tuvey, Taylors Falls
J. Roger Vadheim, Tyler
William Joseph Wimmer, St. Cloud
Eiichi Yoshino, Sun Valley, Calif.
Mark Irving Young, St. Paul

LAW SCHOOL

Bachelor of Science in Law

Michael James Bolen, Minneapolis
Ross Morris Brown, St. Louis Park
Philip Mathre Campbell, Minneapolis
John Bert Cottrell, Minneapolis
Howard Wilbur Dahlin, St. Paul
Morris Dickel, Crookston

Willard Stanley Domich, A.A., Ely
 Dennis Francis Donovan, Jr., B.A.,
 Duluth
 Warren Erik Eastlund, Cambridge
 Stanley Efron, St. Paul
 Joseph Robert Gadola, Ogilvie
 Paul Joseph Glynn, B.A., Faribault
 Harlan Mador Goulett, Minneapolis
 Leonard Wood Grannes, Minneapolis
 Richard Eugene Grunert, Minneapolis
 Gunder David Gunhus, Beardsley
 Raymond Alfred Haik, Minneapolis
 Harris Banks Halverson, Minneapolis
 Joseph Edward Hamilton, South
 St. Paul
 Carol Margretha Hansen, St. Paul
 David Arnold Himmelman, Minne-
 apolis
 Thomas Edward Holloran, Minne-
 apolis
 William Donald Howard, Minne-
 apolis
 Rudolph Valentino Illgen, Illgen City
 Richard Walter Johnson, Minneapolis
 James Henry Johnston, Minneapolis
 Thomas William Jones, St. Louis Park
 Duane Everett Joseph, Minneapolis
 Harold Kalina, Minneapolis
 Marlin Lavern Kastama, New York
 Mills
 Mitchel Ivan Kirshbaum, Minne-
 apolis
 John Richard Koller, Minneapolis
 Merle Litman, Duluth

Greer Edwin Lockhart, Minneapolis
 Adrian Blake MacDonald, Duluth
 Robert Edward McGinty, St. Louis
 Park
 William Kenneth McKibbage, Inter-
 national Falls
 Richard Meyers, St. Paul
 Miller Franklin Myers, Minneapolis
 Arthur Sund Nelson, Minneapolis
 Harold Sanford Nelson, Jr., Minne-
 apolis
 V. Owen Nelson, B.A., Minneapolis
 Wyman August Nelson, Cokato
 Donald James Nielsen, Minneapolis
 Wayne Howard Olson, Swanville
 Wayne Gordon Popham, Zimmerman
 James Lawrence Schulze, Osakis
 Philip Edgar Schwab, Jr., Willmar
 S. Richard Silverness, Minneapolis
 James David Simpson, Minneapolis
 Robert Martin Skare, Mondovi, Wis.
 John Martin Skowronski, B.B.A., Min-
 neapolis
 Donald Keats Smith, Minneapolis
 Norman A. Stansberry, A.A., Worth-
 ington
 Robert James Stenzel, Minneapolis
 Paul William Urbanek, Minneapolis
 James Carl Wackerbarth, Minneapolis
 Rollin Joseph Whitcomb, Minneapolis
 William Abel Whitlock, Jr., Minne-
 apolis
 John Girard Williams, Minneapolis
 Robert Wiswell Winsor, Minneapolis

Bachelor of Laws

Oscar Charles Adamson, II, B.S.L.,
 St. Paul
 Leo Arthur Andree, B.S.L., Duluth
 Yuriko Arase, B.S.L., Los Angeles,
 Calif.
 Edward Morgan Arundel, B.S.L.,
 Minneapolis
 Martin M. Balick, D.D.S., Minne-
 apolis
 Maurice Francis Biddle, B.S.L.,
 St. Joseph, Mo.
 Willard Lee Boyd, Jr., B.S.L., St. Paul
 Edward Thomas Brennan, B.S.L.,
 St. Paul

E. Lawrence Brevik, B.S. in Ch.E.,
 Watertown, S.D.
 James Everett Brooks, B.S.L., Duluth
 John Francis Casey, Jr., B.S.L., Min-
 neapolis
 Leo William Cavanaugh, B.A.,
 Minneapolis
 Edward Dorwart Clapp, B.S.L.,
 St. Paul
 George Alan Cunningham, B.S.L.,
 Minneapolis
 John Henry DeMouilly, B.S.L.,
 St. Paul
 Warren Erik Eastlund, Cambridge

Richard Bowe Egan, B.S.L., St. Paul
 William James Endersbe, B.S.L.,
 Benson
 John Joseph Flynn, B.S.L., Minne-
 apolis
 Francis William Folger, B.S., Hawley
 Peter Edward Fooshe, B.S.L., St. Paul
 Duane Wesley Foss, B.S.L., Minne-
 apolis
 Edward Theodore Fride, Jr., A.A.,
 B.S.L., Duluth
 Gerald Herbert Friedell, B.A., St. Paul
 William Nelson Geagan, B.A., Butte,
 Mont.
 Curtis Cadwell Gilmore, B.S.L.,
 Mankato
 Robert Eugene Granrud, B.A., Minne-
 apolis
 Peter Frederick Greiner, B.S.L.,
 Excelsior
 Edward Irving Haligman, B.S.L., Sioux
 City, Iowa
 Orrin Millard Haugen, B.Ch.E.,
 Minneapolis
 George Willis Hinshaw, A.A., B.S.L.,
 Marshalltown, Iowa
 Dwain Allen Hoops, B.A., Grand
 Island, Neb.
 Bernard Ashley Hoye, B.S.L., Monte-
 rey
 Raymond Henry Jodell, B.B.A., Anoka
 John Elmer Keefe, B.S.L., Minne-
 apolis
 Robert C. Lester, B.S.L., St. Paul
 William Harold Likins, B.S., St. Paul
 Jack Litman, B.A., Duluth
 Maurice Carl Lizee, B.S.L., White
 Bear Lake
 Malcolm Kerr MacKenzie, B.S.L.,
 Gaylord
 James Henry Martin, B.A., Deer River
 Louise Moschel Miller, B.B.A.,
 South St. Paul
 Melvin Robert Mooty, B.S.L.,
 Worthington
 Page Freeman Moulton, B.S.L.,
 Minneapolis
 David Wayne Nord, B.S.L.,
 Red Wing
 Glenn G. Nybeck, B.S.L., Minne-
 apolis
 John Robert Nygren, B.S.L., Minne-
 apolis
 Robert Welde Oelke, B.A., St. Paul
 Bennett Alrick Olson, Isanti
 Owen Russell Olson, B.A., Windom
 Allen Harold Orbuch, B.S.L., St. Paul
 Michael Frank Orr, B.S.L., Wayzata
 Terrance Stephan O'Toole, B.A.,
 St. Paul
 Donald Westover Paffel, B.S.,
 Spooner, Wis.
 Maynard Oscar Panser, B.S.L.,
 Columbia Heights
 Howard Eugene Paulson, B.S.L.,
 Rothsay
 Franklin Petri, Jr., B.S.L., Minneapolis
 Carl Irving Pohlson, B.A., B.S.L.,
 Minneapolis
 Harvard Wendell Powell, B.S.L.,
 Duluth
 John Elmer Qualley, B.S.L., Canby
 Richard Ray Quinlivan, B.S.L.,
 St. Cloud
 Wood Walter Remington, B.S.L.,
 St. Paul
 Lloyd Clifford Richardson, Jr., B.S.L.,
 Aberdeen, S.D.
 Lloyd B. Ritchey, B.S.M.E., M.S. in
 Eng., Minneapolis
 Stanley Burton Rosenfield, B.S.L.,
 Minneapolis
 John Thomas Simonet, B.B.A., Still-
 water
 John Edward Simonett, B.A.,
 LeCenter
 John Paul Simpson, B.S.L., Rochester
 Gordon Ian Sinclair, B.S.L., St. Paul
 Donald Keats Smith, Minneapolis
 Stanley Fuller Staples, Jr., B.S.L.,
 Wausau, Wis.
 Mayo Harris Stiegler, B.S.L., Minne-
 apolis
 Bruce Frederick Thompson, B.S.L.,
 St. Paul
 Douglas Fredric Thornsjo, A.L.A.,
 B.S.L., Minneapolis
 Thomas Earl Ticen, B.A., Minne-
 apolis
 Edward Willot Tunstall, B.B.A.,
 Minneapolis
 James Carl Wackerbarth, Minneapolis

George Gilbert Wangensteen, B.S.L.,
Bovey
William Dale Watters, B.S.L., Sioux
Falls, S.D.
Herman Fred Wegner, B.S.L., Osakis

James Malcolm Williams, B.S.L.,
Minneapolis
Allen Grannis Wilson, B.A., Minne-
apolis

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

Katherine Marie Bergford, Minne-
apolis
Gertrude Alice Bougie, St. Paul
Nancy Jane Dunnavan, Minneapolis
Joan Marilyn Erickson, St. James
Joyce Lenore Ernst, Minneapolis
Geneva Jane Fish, Hiawatha, Kans.
Gloria Lavonne Goode, Tower
Carole Jean Haider, St. Paul
Patricia Joyce Harrod, White Bear
Lake
Geraldine Heggerston, Sacred Heart
Judy May Heilmer, Minneapolis
Beverly Jean Howe, Warren
Joan Adeline Huebner, South St. Paul
Angeline Kienitz, Raymond
Veronica Kolinski, Minneapolis
Mary Katherine Kraft, Austin
Jean Margaret Lanpher, St. Paul

Ardis Lorraine Leander, Princeton
Ida Mae Manion, Minneapolis
Shirley Donna McLellan, Duluth
Jacuelin Ann Morem, Spring Valley
Ruth Vivian Nelson, Litchfield
Jeanne Mazie Okey, St. Paul
Honora Frances Pomije, Shakopee
Nancy Carole Schroeder, Minneapolis
Miriam Elizabeth Seagren, A.A.,
Buffalo
Rita Marie Smersh, Owatonna
Janet Helen Spoodis, Minneapolis
Solveig Mary-Ellen Swangstue, A.A.,
St. Paul
Maxey L. Swanson, A.A., Columbus,
Mont.
Gloria Ann Weir, Hibbing
Marion Inez Wilke, St. Paul

Doctor of Dental Surgery

James George Adelmann, Minneapolis
Raymond Earl Asp, Minneapolis
Russell James Backe, Federal Dam
Burton Fred Bakke, Montevideo
Joseph Robert Balach, Duluth
Lee Willis Barry, Jr., St. Paul
Delmar Edmond Beaupre, Faribault
Philip Roger Blackford, Minneapolis
Emil Bernhard Borg, Jr., St. Paul
Elmer Marcus Bothun, B.A., St. Paul
Donald William Brown, Fargo, N.D.
Alvin Arthur Buechler, Bowdle, S.D.
Bruce Ellison Burrington, Grand
Meadow
James Francis Bussen, St. Paul
Donald James Carrels, Wabasha
Edward Anton Cerkovnik, Ely
Ronald MacKay Christianson, St. Paul

Harold Lee Cleath, Minneapolis
John Norman Constenius, Cokato
Harold Bert Crossman, Deer Lodge,
Mont.
Richard William Daby, Grove City
Robert Theodore Dahlberg, Minne-
apolis
Paul Judson Dix, Minneapolis
Roger Hutchins Eckblom, St. Paul
Melvin Westly Ek, Chippewa Falls,
Wis.
Donald Rudolph Erickson, Parkers
Prairie
Kenneth Charles Erickson, St. Paul
Alan Dana Fogerson, Benson
Verdie Lyle Hagenstad, Montevideo
Peter Raymond Hansen, Jackson
Lee C. Hermann, Excelsior

Lloyd Eldred Jacobson, Madison	Haim Manes Prost, Minneapolis
Joseph Wilson Janda, St. Paul	Oliver E. Quam, Willmar
Carroll Eugene Jenson, B.A., Milan	Louis Fred Remark, Ada
Lowell Edwin Jentoft, Duluth	Roy Joseph Ross, St. Paul
Robert Duane Jeronimus, Duluth	Orvin James Sauby, Elbow Lake
Donald Wayne Johnson, Pine City	Robert Earl Sausen, St. Paul
Edward George Johnson, Minneapolis	Max Alexander Schuldt,
Harris Everett Keel, Monroe, Wis.	Good Thunder
Ralph Louis Koerner, St. Paul	Charles Merritt Seely, Minneapolis
Willard Cameron Kottke, Minneapolis	Duane Roy Seibert, St. Paul
Arvin Norris Langum, Preston	Eugene Floyd Seleen, Storden
Warren Titterud Lee, B.S., Cokato	Wayne David Smith, Faribault
Ray Chester Lundgren, Two Harbors	Russell Harry Solsvig, Minneapolis
Peter Joseph Mastel, St. Paul	Daniel Freeman Stewart, St. Cloud
Richard Driscoll May, Howard Lake	Donald Milton Storslee, B.S., Ada
Kenneth Maxwell Miller, Hibbing	Herbert Harold Swanson, B.A., Chis-
Curtis L. Morem, Harmony	holm
Kenneth Melvin Nelson, Mankato	Robert Albin Tanquist, B.A., St. Paul
Norman Bill Nelson, B.Ed., M.A.,	Elmer Edward Thiesse, B.C.E.,
Bagley	Ceylon
Frederic Norman Nordstog, Crosby,	Donald Milton Travnicek, Ph.B., East
N.D.	Grand Forks
Robert Hugh Owen, Jr., Lime Spring,	Lloyd Henry Truax, Jr., Rochester
Iowa	John Paul Turner, B.A., Minneapolis
Ernest C. Patchet, St. Paul	Norval James Vizzier, Minneapolis
Barton Eugene Perrizo, Jasper	Jacob A. vonArx, Minneapolis
John Frederic Phillips, B.A., Minne-	William Andrew Wagner, Akeley
apolis	Donald Whitacre Wheeler, Minne-
John Rockwood Phillips, Duluth	apolis

COLLEGE OF MEDICAL SCIENCES

Graduate in Nursing*

Geraldine Clara Beimert, Minneapolis	Margery Ann Krengel, Lamberton
Beverly Ann Brandt, Minneapolis	Mary Elizabeth Lowe, Montclair, N.J.
Virginia Ann Bristol, Moorhead	Betty Jean Lowrance, Brainerd
Dorothy Grace Martinson Carlson,	Martha Elinor Miller, Sioux Falls, S.D.
A.A., Manistique, Mich.	Wanda McIntire Rauma, Hutchinson
Elsie Ione Dalager, Glenwood	Isabel Margaret Salisbury, Minneapolis
Elizabeth Ellen Reed Frigstad,	Phyllis Hope Sheppard, Bozeman,
St. Paul	Mont.
Ruth Anne Graves, Rice	Lorraine Louise Sprader, Minneapolis
Henrietta Phyllis Hause, St. Paul	Lillian Hiroko Tanigawa, Minneapolis
Arlene Jean Isaacson, Litchfield	Martha Wendell, Minneapolis
Helen Joan Jessup, Minneapolis	Donna Therese Wimmer, Minneapolis
Dorothy Marie Koehler, Blue Earth	

* These degrees are conferred subject to the satisfactory completion of nursing practice prior to December 20, 1951.

Bachelor of Science

- Bonita Warner Abbott, Minneapolis, Medical Technology†
- Rosemary Ahern, Hastings, Public Health Nursing
- Geraldine Clara Beimert, Minneapolis, Public Health Nursing
- Betty Werth Berg, Warner, S.D., Public Health Nursing
- Grace Helen Bergstrom, Duluth, Occupational Therapy
- Helaine Agatha Bjorndahl, St. Paul, Occupational Therapy
- Oliver Thomas Bogen, Minneapolis, Physical Therapy
- Glenn Howard Bostrom, Minneapolis, Physical Therapy
- Lorraine Osheim Botts, Minneapolis, Public Health Nursing, WITH DISTINCTION
- Hilda W. Boyle, Minneapolis, Public Health Nursing
- Arleth Charlen Brask, A.A., R.N., Frederic, Wis., Public Health Nursing
- Lois Geraldine Bratschi, Minneapolis, Medical Technology†
- Virginia Ann Bristol, Moorhead, Public Health Nursing
- Helen Elizabeth Burgh, Chicago, Ill., Public Health Nursing
- Donna Irene Campbell, Minneapolis, Medical Technology†
- Lillian Marie Carini, Okmulgee, Okla., Public Health Nursing
- Kathleen Joyce Clayson, Isanti, Medical Technology, WITH DISTINCTION†
- Janet Louise Eklund, Minneapolis, Medical Technology†
- Marian Lydia Eliason, Minneapolis, Occupational Therapy, WITH HIGH DISTINCTION
- Donald Earl Erickson, Minneapolis, Physical Therapy
- Dortha Lois Esch, Garden City, Occupational Therapy, WITH DISTINCTION
- Patricia Alice Fauth, Minneapolis, Occupational Therapy
- Solveig H. Fjelstad, R.N., Moorhead, Public Health Nursing
- Gertrude Ann Freeman, Two Harbors, Physical Therapy
- Phyllis Ethelyn Gadbois, Minneapolis, Medical Technology†
- Claire Marie Gauthier, Winnipeg, Canada, Public Health Nursing
- Ruth Anne Graves, Rice, Public Health Nursing
- Ruth Sarah Greene, Winona, Occupational Therapy
- Laura Bernice Grette, Minneapolis, Medical Technology†
- Henrietta Phyllis Hause, St. Paul, Public Health Nursing
- Joan Dolores Held, A.A., B.A., Red Wing, Medical Technology†
- Donna Linnea Hult, Minneapolis, Medical Technology†
- Arlene Jean Isaacson, Litchfield, Public Health Nursing
- D. LaVonne Jaeger, St. Cloud, Physical Therapy
- Helen Louise Jernberg, Minneapolis, Medical Technology, WITH DISTINCTION†
- Marlene Joyce Johnson, Rice Lake, Wis., Medical Technology, WITH DISTINCTION†
- Kathleen Jean Kennedy, Minneapolis, Occupational Therapy
- Marie Kathryn Kiefer, Lewiston, Medical Technology†
- Dorothy Marie Koehler, Blue Earth, Public Health Nursing
- Margery Ann Kregel, Lamberton, Public Health Nursing, WITH DISTINCTION
- Marion Grace Langlie, Minneapolis, Medical Technology†
- Edythe Mae Larson, Fertile, Occupational Therapy
- Mary Elizabeth Lowe, Montclair, N.J., Public Health Nursing
- Betty Jean Lowrance, Brainerd, Public Health Nursing

† These degrees are conferred subject to the satisfactory completion of required practical work prior to December 20, 1951.

- Patricia Ann Lowry, Minneapolis, Medical Technology†
 Rose Marie MacDonald, Virginia, Medical Technology, WITH DISTINCTION†
 Donna Marie McArdle, Anoka, Physical Therapy
 Dorothy Jean Miller, Duluth, Medical Technology†
 Florence Thelma Miller, Reading, Medical Technology, WITH DISTINCTION†
 Martha Elinor Miller, Sioux Falls, S.D., Public Health Nursing
 Idell Dudley Moulton, Wilson Creek, Wash., Physical Therapy, WITH DISTINCTION
 Maria Brink Mueller, Minneapolis, Public Health Nursing
 Margaret Eleanore Nichols, Duluth, Medical Technology†
 Iris Noma, Minneapolis, Medical Technology†
 Hugh Donald Patterson, Slayton, Medicine
 Jane Pendarvis, G.N., Council Bluffs, Iowa, Public Health Nursing
 Julia Marie Petersen, Tyler, Medical Technology†
 Donovan E. Peterson, Minneapolis, Medical Technology†
 Robert Stanley Peterson, Minneapolis, Medical Technology†
 Wanda McIntire Rauma, Hutchinson, Public Health Nursing
 Isabel Margaret Salisbury, Minneapolis, Public Health Nursing
 Marilyn Joanne Sandberg, Minneapolis, Occupational Therapy, WITH DISTINCTION
- Marlys Ruth Sandford, St. Paul, Medical Technology†
 Mary Vandell Schneider, R.N., Eveleth, Public Health Nursing
 Joan Marcella Schweitzer, St. Paul, Occupational Therapy
 Sally Anne Scriver, Minneapolis, Medical Technology†
 Susan Mary Scriver, Minneapolis, Medical Technology, WITH DISTINCTION†
 Jean Carol Setterberg, Minneapolis, Medical Technology†
 Phyllis Hope Sheppard, Bozeman, Mont., Public Health Nursing
 Sister Rita George Knutson, B.A., Minneapolis, Medical Technology, WITH DISTINCTION†
 Regina Loraine Spencer, Rochester, Occupational Therapy, WITH DISTINCTION
 Lorraine Louise Sprader, Minneapolis, Public Health Nursing
 Lillian Hiroko Tanigawa, Minneapolis, Public Health Nursing
 Elizabeth Adeline Thomley, G.N., Osseo, Wis., Public Health Nursing, WITH DISTINCTION
 Joan Phyllis Thorson, Minneapolis, Medical Technology†
 Evelyn Margaret Toso, R.N., Erhard, Occupational Therapy
 Constantine Valentine, Chisholm, Physical Therapy
 Philomena Marie Wille, R.N., Garnaville, Iowa, Public Health Nursing, WITH HIGH DISTINCTION
 Robert Owen Wood, Minneapolis, Physical Therapy, WITH DISTINCTION

Bachelor of Medicine

- Shirley Elaine Adler, B.S., Marshall
 Ernest Arthur Ager, B.S., Minneapolis
 Kenneth Emil Ahola, B.A., B.S., Virginia
 James Peter Akins, B.A., B.S., Watertown
- John William Anderson, B.A., B.S., Litchfield
 Roger Lewis Anderson, B.S., Detroit Lakes
 Wallace Everett Anderson, B.S., Minneapolis

† These degrees are conferred subject to the satisfactory completion of required practical work prior to December 20, 1951.

James S. Barr, B.S., Wells
 Robert Bedell Benjamin, B.A., Pipe-
 stone
 Kenneth George Berge, B.A. *magna*
cum laude, B.S., Wahkon
 Ernest Maurice Berkas, B.S., B.A.,
 Kenyon
 Russell Stanfield Blanchard, B.A.
magna cum laude, B.S., Minneapolis
 Sanford Bloom, B.S., Minneapolis
 Owen C. Bolstad, B.S., Appleton
 Arthur Bolter, B.S., Minneapolis
 Jack Ridley Brokken, B.S., Harmony
 Thomas Patrick Cannon, B.A., B.S.,
 St. Paul
 James Bain Carey, Jr., B.S., Minne-
 apolis
 Harley Corwin Carlson, B.A., B.S.,
 Argyle
 Vernon John Carlson, B.A., B.S., Min-
 neapolis
 Shirley Joan Cedarleaf, B.A., St. Paul
 Bruce Wilton Christianson, B.S.,
 Blooming Prairie
 Leonard Arthur Cobb, Jr., B.S., St.
 Paul
 Edward Dale Cumming, B.A., Minne-
 apolis
 Donald William Deering, B.S., B.A.,
 Portland, Ore.
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| James Russell Bergquist, B.A., B.S.,
M.B., Minneapolis | Hymie Arnold Gull, B.S., Minneapolis |
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Island | John Burton Hayes, B.S., M.B.,
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| Charles Seamans Brisbin, B.S., M.B.,
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| William Claire Broderick, B.S., B.A.,
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| Martin Beil Callan, B.S., M.B.,
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B.S. with distinction '42, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Diana K. Young, Manila, Philippine Islands
B.S. '49, University of Santo Tomas. Field of Concentration: Economics.

Stanley Eugene Young, St. Paul
B.A. *summa cum laude* '50, Macalester College. Field of Concentration: Economics.

Hans Lennart Zetterberg, Stockholm, Sweden
B.A. '48, University of Stockholm. Major: Sociology. Minor: Psychology. Thesis: A Semantic Role Theory, Its Formulation, a Preliminary Test, and Some Implications for Social Responsibility.

Robert Edwin Zink, Minneapolis
B.A. *magna cum laude* '49, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: On the Singular Points of a Certain Family of Differential Equations.

Master of Arts in Public Administration

Ross Jeffrey Farmer, Minneapolis
B.A. *cum laude* '49, University of Minnesota.
Field of Concentration: Public Administration.

Master of Business Administration

Robert Zeller Bancroft, Mishawaka, Ind.
B.S. in Ch.E. '41, Ch.Eng. '47, Purdue University. Field of Concentration: Business Administration.

Stanley Stewart Pearson, St. Paul
B.A. *cum laude* '49, University of Minnesota.
Field of Concentration: Business Administration.

Master of Science

Laird Bryce Andersen, Aberdeen, S.D.
B.S. with distinction '50, University of Minnesota. Major: Metallurgy. Minor: Chemical Engineering. Thesis: The Dilatation of Iron Oxides on Reduction.

John Gallup Appelget, Cohasset
B.S. '43, University of Minnesota. Major: Entomology and Economic Zoology. Minor: Zoology. Thesis: Age and Rate of Growth of the Channel Catfish (*Ictalurus lacustris punctatus*) Rafinesque, as Determined by Use of the Vertebrae.

Donald Gardner Baker, St. Paul
B.S. '49, University of Minnesota. Major: Soils. Minor: Agronomy. Thesis: Top and Root Production of Several Legumes as Influenced by Fertilizer Treatments.

Thomas Eugene Ban, Hibbing
B.Chem.E. '49, University of Minnesota. Major: Metallurgy. Minor: Physical Chemistry. Thesis: The Agglomeration of Fine Taconite Concentrates by Pelletizing.

Gustave Philippe Boucher, Ottawa,
Ontario, Canada
B.S.A. '33, Agricultural College of Sainte Anne de la Pocatiere. Field of Concentration: Agricultural Economics.

Robert James Sidford Brown, Lawn-
dale, Calif.
B.S. '48, California Institute of Technology. Major: Physics. Minor: Mathematics. Thesis: Angular Distributions of Charged Particles from the Bombardment of N^{14} by 2.5 Mev Deuterons.

John Edward Cadotte, Duluth
B.A. '49, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Synthesis of Glycosides.

Gustavo Antonio Candelas, Cidra,
Puerto Rico
B.S. with honors '44, University of Puerto Rico. Major: Zoology. Minor: Botany. Thesis: Studies on the Cladocera of Minnesota.

Harry Ralph Carney, Duluth
B.A. '47, Duluth State Teachers College. Major: Cancer Biology. Minor: Physiological Chemistry. Thesis: A Comparative Study of the Gomori and the Mannheim and Seligman Technic for the Localization of Alkaline Phosphatase.

Shirley Lois Cotter, St. Paul
B.A. *summa cum laude* '49, University of Minnesota. Major: Botany. Minor: Plant Pathology. Thesis: The Developmental Anatomy of the Etiolated Seedling Mesocotyl.

James William Dalrymple, Jr.,
Andover, Mass.
B.A. *cum laude* '50, Harvard College. Field of Concentration: Geology.

Richard Leo Davis, St. Paul
B.S. with distinction '49, University of Minnesota. Field of Concentration: Poultry Husbandry.

Fred William DeMoney, Minneapolis
B.S. '41, Illinois Institute of Technology. Major: Metallography. Minor: Mechanical Engineering. Thesis: Impact Properties of Key-hole Notched Round AISI A 8742 Specimens.

Ruth Elaine Dobler, Helena, Mont.
B.S. '47, Montana State College. Major: Bacteriology. Minor: Anatomy. Thesis: Antigenic Properties of the Hyaluronidases Produced by Hemolytic Streptococci.

Donald John Ferguson, Minneapolis
B.S. '39, Yale University; M.D. '43, University of Minnesota. Major: Physiology. Minor: Pathology. Thesis: The Effect of Hypophysectomy on Adrenal Tumors in C_3H Mice.

Ronald Manford Gabrielson, Minne-
apolis
B.S. '43, Hamline University. Major: Bacteriology. Minors: Pathology and Cancer Biology. Thesis: The Effects of Freezing, Thawing, and Lyophilization on the Transplantability of Mouse Leukemic Cells.

Ruth Slaton Harris, Minneapolis
B.S. '47, Northwestern University. Major: Physiological Chemistry. Minor: Physiology. Thesis: The Effect of Ovarian Hormones on the Enzymic Activity of Some Sexual and Nonsexual Tissues in the Female Mouse.

Marjorie Eleanor Hearn, Minneapolis
B.S. '29, University of Minnesota. Field of Concentration: Library Science.

Elaine Dagmar Hermanson, Bock
B.S. with high distinction '49, University of Minnesota. Major: Home Economics. Minor: Statistics. Thesis: Retention of Thiamine in Cooked Veal Steaks and Roasts.

- Edmund Arthur Hibbard, St. Cloud
B.S. '49, University of Minnesota. Field of Concentration: Entomology and Economic Zoology.
- Nahmin Horwitz, Duluth
B.S. *cum laude* '49, Western Reserve University. Field of Concentration: Physics.
- Lewie Oliver Ingersoll, Minneapolis
B.A. '48, University of Minnesota. Major: Anatomy. Minor: Physiological Chemistry. Thesis: Effect of Elevated Blood Glucose Levels on Glucose Tolerance and Islet Cell Structure of Rats.
- Thomas Justus Johnson, Minneapolis
B.S. '39, Kentucky State Industrial College. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance of Ability to Germinate under "Cold-Test" Conditions (*Zea mays*).
- Jalmer John Jokela, Ely
B.S. with distinction '47, University of Minnesota. Major: Forestry. Minor: Plant Genetics. Thesis: The Economics of Jack Pine Thinnings as Affected by a Fence Post Market.
- Eugene Roger Kelly, Elcho, Wis.
B.S. in C.E. '47, Oregon State College. Field of Concentration: Public Health.
- Arnold Bendik Larson, Sandstone
B.S. '49, University of Minnesota. Field of Concentration: Agricultural Economics.
- Leopold Alexandre Long, Montreal, Quebec, Canada
B.A. *cum laude* '39, L.Sc. '45, M.D. '45, University of Montreal. Major: Anatomy. Minor: Pathology. Thesis: A Study of the Bone Marrow in Refractory Anemia.
- Wayne Lewis Meek, Fort Wayne, Ind.
B.S. '48, Purdue University. Major: Forestry. Minor: Agricultural Biochemistry. Thesis: The Effect of Sodium Hydrosulfide on Phenolic Compounds.
- Jay Warren Midtlyng, Two Harbors
B.S. '50, University of Minnesota. Field of Concentration: Poultry Husbandry.
- Harry Monsen, Trondheim, Norway
B.S. '42, University of Uppsala. Major: Anatomy. Minor: Pathology. Thesis: Adrenal Cortical-Hypophyseal Relationship in the Genesis of Adrenal Cortical Adenomas.
- Ward Sundt Motts, Lakewood, Ohio
B.A. '49, Columbia University. Field of Concentration: Geology.
- Lowell O. Nelson, St. Paul
B.S. with distinction '43, University of Minnesota. Major: Forestry. Minor: Botany. Thesis: The Preservation of Plant Materials Used for Christmas Decorations.
- Odeen Graydon Olson, Blue Earth
B.A. '47, University of Minnesota. Major: Physical Chemistry. Minor: Analytical Chemistry. Thesis: A Study of the Nature of Solutions of Benzophenone in the Solvent Sulfuryl Chloride.
- Sigurd Thorne Olson, Ely
B.S. with distinction '49, University of Minnesota. Major: Economic Zoology. Minors: Botany and Forestry. Thesis: A Study of the Common Loon (*Gavia immer* ssp.) in the Superior National Forest of Northern Minnesota.
- Phil Bertram Price, LeRoy
B.S. with honor '48, Mankato State Teachers College. Field of Concentration: Botany.
- Arthur Francis Rizzi, Milwaukee, Wis.
B.S. '48, University of Wisconsin. Field of Concentration: Public Health.
- Carlos Santos-Berroteran, Guatemala City, Guatemala
C.E. '47, National University of Nicaragua. Field of Concentration: Public Health.
- Allen Brian Schlesinger, Minneapolis
B.A. *cum laude* '49, University of Minnesota. Field of Concentration: Zoology.
- Gerald Keith Seed, Black Hawk, Ontario, Canada
B.S. '50, University of New Brunswick. Major: Forestry (Silviculture). Minor: Forestry (Management). Thesis: A Study of Some Factors Affecting Regeneration of the Clear-Cut Mature Spruce-Fir Type in the Lake of the Woods Area.
- Myra Elizabeth Smart, Birchdale
B.S. '48, University of Minnesota. Field of Concentration: Horticulture.
- Francisco Tello, Jr., Chitre, Republic of Panama
B.S. '43, Instituto Nacional de Panama. Field of Concentration: Bacteriology.
- Joseph Rogers Thysell, St. Paul
B.S. '41, Texas Agricultural and Mechanical College. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Bushel Weight of Ear Corn in *Zea mays* as Affected by Ear Moisture at Time of Harvest.

John David Vogel, Wayne, Ill.
B.A. '50, Dartmouth College. Field of Concentration: Geology.

Alberto Wachs, Santa Fe, Argentina
Chem.Eng. '49, National University of Litoral. Field of Concentration: Public Health.

Burton Armin Waisbren, Milwaukee, Wis.

B.S. '44, M.D. '46, University of Wisconsin. Major: Medicine. Minor: Zoology. Thesis: Bacteremia Due to Gram Negative Bacilli Other Than the Salmonella—A Clinical and Therapeutic Study.

Henry Archer Harold Wallace, Winnipeg, Manitoba, Canada

B.S. '35, University of Alberta. Major: Plant Pathology. Minor: Botany. Thesis: A Rare Seed-borne Fungus Disease of Wheat.

David Archer White, Washington, D.C.

B.A. magna cum laude '50, Dartmouth College. Field of Concentration: Geology.

John Clark Wilson, Pierre, S.D.
B.S. '48, South Dakota State College of Agriculture and Mechanic Arts. Field of Concentration: Biostatistics.

Calvin Robert Woods, Maywood, N.J.
B.S. '49, Tufts College. Field of Concentration: Physics.

Donald Edward Young, Lake Zurich, Ill.

B.A. cum laude '46, Ripon College. Field of Concentration: Physics.

Leonard Paul Zagelow, Odessa, Wash.
B.S. '37, State College of Washington. Field of Concentration: Pharmaceutical Chemistry.

Mahmoud Mohammed Ibrahim Zeid, Alexandria, Egypt

B.S. '35, Fouad I University. Major: Entomology. Minor: Agricultural Biochemistry. Thesis: Studies on the Translocation within Plants of Certain New Organic Phosphate Insecticides as Determined by Bioassay Methods Using Mites and Mosquito Larvae.

Master of Science in Aeronautical Engineering

Olav Eggert Blichner, Arendal, Norway
B.Aero.E. '50, University of Minnesota. Field of Concentration: Aeronautical Engineering.

William Edward Bornemann, Hallock
B.Aero.E. with distinction '48, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Julio Cordero, Minneapolis
B.S. in Aero. Eng. '48, Wayne University. Field of Concentration: Aeronautical Engineering.

Arne Gunnar Heisholt, Rjukan, Norway
B.Aero.E. with high distinction '50, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Mahlon Cooper Smith, Sullivan, Wis.
B.Aero.E. with distinction '50, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Master of Science in Chemical Engineering

George Charles Hann, Minneapolis
B.Ch.E. '45, University of Minnesota. Major: Chemical Engineering. Minor: Business Administration. Thesis: A Preliminary Study of Air Flow through Fluidized Beds.

Master of Science in Civil Engineering

Fredrick Richard Fredrickson, Minneapolis

B.C.E. '45, University of Minnesota. Major: Civil Engineering. Minor: Public Health. Thesis: Factors Influencing the Vacuum Filtration of Sewage Sludge.

George Louis Hinucher, St. Paul

B.C.E. '43, University of Minnesota. Major: Civil Engineering. Minor: Geology. Thesis: A Study of Soil Stabilization with Lime and Portland Cement for Use in Highway Construction.

Alice Mary Jarvis, Minneapolis

B.C.E. '47, University of Minnesota. Major: Civil Engineering (Structural Engineering). Minor: Civil Engineering (Sanitary Engineering). Thesis: Model Analysis of Sheet Piling Determination of a Spring Constant for a Soft Clay.

Walter Kline Johnson, Minneapolis

B.C.E. with distinction '48, University of Minnesota. Major: Civil Engineering (Sanitary Engineering). Minor: Civil Engineering (Hydraulics). Thesis: The Ventilation of Trickling Filters.

Paul Allen Loop, McMinnville, Ore.

B.S. '40, Oregon State College. Field of Concentration: Civil Engineering.

James Beatty Meanor, Jr., Wilkesburg, Pa.

B.S.Ch.E. '41, Carnegie Institute of Technology. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

John Duane Gehrig, Duluth

D.D.S. '46, University of Minnesota. Major: Dentistry. Minor: Physiology. Thesis: Studies of Some of the Effects of Thiopental Sodium on the Syrian Hamster.

Joseph Anthony Gibilisco, Omaha, Neb.

D.D.S. '48, University of Minnesota. Major: Dentistry. Minor: Neurology. Thesis: Studies of Chromatolysis in the Cat Gasserian Ganglion Following Extirpation of the Pulp and Removal of the Teeth.

Erwin Michael Schaffer, Minneapolis

D.D.S. '45, University of Minnesota. Major: Dentistry. Minor: Pharmacology. Thesis: A Study of the Incidence, Diagnosis, and Treatment of Necrotizing Ulcerative Gingivitis and a Supplementary Experiment on the Effects of Bacterial Inoculations of Mixed Organisms into Guinea Pigs Following Controlled Injections of Scillaren-B and Follutein.

Master of Science in Dermatology and Syphilology

Samuel William Becker, Jr., Chicago, Ill.

B.S. '45, M.D. '47, University of Illinois. Major: Dermatology and Syphilology. Minor: Histopathology. Thesis: The Dendritic Cell of the Epidermis.

Master of Science in Electrical Engineering

Dennis Warren Angland, Chokio

B.E.E. with high distinction '45, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Steady Magnetic Forces between Current Circuits and Iron.

Nicholas Theodore Neapolitakis, Istanbul, Turkey

B.S. in E.E. '47, Robert College. Major: Electrical Engineering. Minor: Mathematics. Thesis: Improvements and Theoretical Study of a Fractional Horsepower Axial Air-Gap Induction Motor.

Robert Ernest Pidcock, Minneapolis
B.E.E. with distinction '46, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of All-pass Networks in the Design of a Distortionless Line.

Maso Sakamoto, Minneapolis
B.E.E. with high distinction '47, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Experimental Study and Design of a Magnetic Amplifier with Special Reference to Battery Charge Control.

Master of Science in Mechanical Engineering

Donald David Baron, Minneapolis
B.Mech.E. '50, University of Minnesota. Field of Concentration: Mechanical Engineering.

William Davidson Ebright, Minneapolis
B.S. '45, United States Coast Guard Academy; B.S. in M.E. '49, University of Nebraska. Major: Mechanical Engineering. Minor: Mathematics and Mechanics. Thesis: The Determination of the Bending Moment, Shear and Deflection in the Walls of Circular Tanks.

Merle Leonard Erickson, McGregor, N.D.
B.S. '49, North Dakota Agricultural College. Field of Concentration: Mechanical Engineering.

Leslie Wyatt Foster, Jr., Whiteriver, Ariz.
B.Mech.E. '50, University of Minnesota. Major: Mechanical Engineering (Internal Combustion Engines). Minor: Mechanical Engineering (Machine Design). Thesis: A Study of Air Flow through Reed Valves of a Small Two-stroke Engine.

Louis Finley Keller, Jr., St. Paul
B.Mech.E. '49, University of Minnesota. Field of Concentration: Mechanical Engineering.

Mayer Milton Krupp, Minneapolis
B.Mech.E. with high distinction '48, University of Minnesota. Major: Mechanical Engineering (Refrigeration). Minor: Mechanical Engineering (Heating and Ventilation). Thesis: Heat Transfer Characteristics in Frozen Food Containers.

Karl Edwin Neumeier, Stillwater
B.Aero.E. with distinction '43, University of Minnesota. Major: Mechanical Engineering (Internal Combustion Engines). Minor: Mechanical Engineering (Machine Design). Thesis: The Design and Evaluation of a System for Calibrating Total Temperature Probes for Use in Gas Turbines.

Master of Science in Medicine

Herbert Wesley Johnson, St. Paul
B.A. *cum laude* '43, B.S. '43, M.D. '46, University of Minnesota. Major: Medicine. Minor: Physiology. Thesis: Studies on the Distribution of Physiologic Amounts of Iodide, Diiodotyrosine and Thyroxin in the Rat.

John Roger Kelsey, Jr., DePort, Tex.
M.D. '45, Baylor University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: A Study of the Aortic Valve in Hypertension.

John Edwin Lucas, Seattle, Wash.
B.S. '40, University of Washington; M.D. '43, Harvard University. Major: Medicine. Minor: Hematology. Thesis: A Study on the Intravenous Administration of Iron in Anemias.

John Martin Miller, Indianapolis, Ind.
B.A. '43, M.D. '45, University of Indiana. Major: Medicine. Minor: Biochemistry. Thesis: A Study of the Isotopic Labeling of the Protein Bound Iodine in Patients with Hyperthyroidism.

John Whitall Nicholson, III, Rochester
B.A. '37, Princeton University; M.D. '41, University of Pennsylvania. Major: Medicine. Minor: Physiology. Thesis: An Oximetric Method for the Continuous Recording of Evans Blue Dye Concentrations in Arterial Blood: Its Application to the Determination of Cardiac Output and Blood Volume, and to the Diagnosis of Cardiovascular Disease.

Raymond Victor Randall, Winchester, Mass.

B.A. '42, M.D. '45, Harvard University. Major: Medicine. Minor: Physiology. Thesis: The Effect of Hypophysectomy on the Uptake of Radioactive Iodine by the Thyroid of the Rat.

Belding Hibbard Scribner, Seattle, Wash.

B.A. '41, University of California; M.D. '45, Stanford University. Major: Medicine. Minor: Physiology. Thesis: Application of Water-chloride Balance Techniques in the Clinical Management of Problems of Fluid Balance.

Lydia Marie Seebach, Minneapolis

B.S. '41, M.D. '44, University of Minnesota. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Large Cells in the Lung Capillaries.

Master of Science in Neurosurgery

Henry William Dodge, Jr., New York, N.Y.

B.S. '40, Yale University; M.D. '43, Columbia University. Major: Neurosurgery. Minor: Neuropathology. Thesis: Solitary Benign Peripheral Nerve Tumors: A Clinical Pathological Evaluation.

Master of Science in Obstetrics and Gynecology

William Hunt, Rochester

B.A. '43, Dartmouth College; M.D. '46, University of Minnesota. Major: Obstetrics and Gynecology. Minor: Surgical Pathology. Thesis: Hydatidiform Mole: A Histopathologic Study with Regard to Malignant Change.

Master of Science in Ophthalmology

Bruce Leo Kantar, Minneapolis

B.A. '39, B.S. '44, M.D. '45, University of Minnesota. Major: Ophthalmology. Minor: Anatomy. Thesis: Diabetic Retinopathy: A Study of Seventy-two Cases.

Ralph Emil Teitgen, Milwaukee, Wis.

B.S. '41, University of Chicago; M.D. '44, University of Pennsylvania. Major: Ophthalmology. Minor: Surgical Pathology. Thesis: Comparison of Cocaine and Quatracaine in Ocular Anesthesia and Corneal Repair.

Master of Science in Orthopedic Surgery

William J. McDonald, St. Paul

B.S. '43, University of North Dakota; M.D. '46, Northwestern University. Major: Orthopedic Surgery. Minors: Anatomy and Pathology. Thesis: Tarsal Coalition, with Special Consideration of Our Present Methods of Diagnosing Talocalcaneal Fusion.

Master of Science in Otolaryngology and Rhinology

Lee George Eby, Rochester

B.S. '41, M.D. '43, University of Wisconsin. Major: Otolaryngology and Rhinology. Minor: Surgical Pathology. Thesis: Recruitment of Loudness as a Differential Diagnosis of End Organ and Nerve Fiber Deafness.

William Charles Hugenberg, Rochester

B.S. '42, Xavier University; M.D. '45, University of Cincinnati. Major: Otolaryngology and Rhinology. Minor: Surgical Pathology. Thesis: Cancer Cells in Nasal Secretions.

Master of Science in Proctology

Robert Kimber Curtiss, Syracuse,
N.Y.

B.A. '40, Colgate University; M.D. '43, University of Maryland. Major: Proctology. Minor: Surgical Pathology. Thesis: A Clinicopathological Study of Lymphopathia Venereum with Involvement of the Anus, Rectum, and Colon.

Master of Science in Radiology

Richard Baird Bridenbaugh, Billings,
Mont.

B.A. '42, M.D. '44, University of Colorado. Major: Radiology. Minor: Pathology. Thesis: The Roentgen Contrast Study of the Venous Circulation of the Liver.

Master of Science in Surgery

Philip E. Bernatz, Decorah, Iowa

B.A. '41, M.D. '44, State University of Iowa. Major: Surgery. Minor: Surgical Pathology. Thesis: Small Cell Neoplasms of the Stomach: A Clinicopathologic Study.

Harry Meredith Burgess, Montreal,
Quebec, Canada

B.A. '41, M.D.C.M. '44, McGill University. Major: Surgery. Minor: Pathologic Anatomy. Thesis: Carcinoma of the Esophagus.

Irving F. Enquist, Duluth

B.S. '42, M.D. '44, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: Rectal and Colonic Polyps—A Follow-up Study.

Eugene Russel Griffith, Rochester

B.A. '39, Colorado College; M.D. '44, Northwestern University. Major: Surgery. Minor: Surgical Pathology. Thesis: Alveolar Cell Tumors of the Lung.

Charles Daniel Knight, Shreveport,
La.

B.S. *summa cum laude* '41, Centenary College; M.D. '44, Tulane University. Major: Surgery. Minor: Surgical Pathology. Thesis: Carcinoma of the Rectum in the Female: Effect of Vaginal Invasion on Prognosis.

Robert Urban Moersch, Rochester

B.S. '41, Carleton College; M.D. '44, University of Pennsylvania. Major: Surgery. Minor: Surgical Pathology. Thesis: Carcinoma of the Colon Perforating onto the Small Intestine.

Wilbourn Couperly Shands, Jackson,
Miss.

B.A. '43, M.D. '45, Vanderbilt University. Major: Surgery. Minor: Surgical Pathology. Thesis: Chronic Ulcerative Colitis and Adenocarcinoma of the Colon and Rectum: A Clinicopathological Study.

Timothy Takaro, Flushing, N.Y.

B.A. '41, Dartmouth College; M.D. '43, New York University. Major: Surgery. Minor: Surgical Pathology. Thesis: Experimental Pulmonary Arteriovenous Fistula.

Master of Science in Urology

Brian John McGroarty, St. Paul

B.S. '37, M.D. '40, University of Minnesota. Major: Urology. Minor: Pathology. Thesis: Carcinoma of the Prostate: A Study of the Clinical Course of the Disease with an Evaluation of Endocrine Therapy.

Master of Social Work

- Bernice Arvidson, St. Paul
B.E. '38, Winona State Teachers College.
Field of Concentration: Social Work.
- Harold Johnshoy Belgum, Minneapolis
B.A. '33, Luther College; M.A. '37, State University of Iowa. Field of Concentration: Social Work.
- Kenneth Mundahl Boyum, Minneapolis
B.A. '49, University of Minnesota. Field of Concentration: Social Work.
- Virginia Elizabeth Buchwald, Minneapolis
B.A. '45, Wheaton College. Field of Concentration: Social Work.
- Edward Franklin Ebert, Portage, Wis.
B.A. '49, Carroll College. Field of Concentration: Social Work.
- Barbara Ann Fulton, Minneapolis
B.A. *cum laude* '49, University of Minnesota.
Field of Concentration: Social Work.
- Charles Garetz, St. Paul
B.A. '49, University of Minnesota. Field of Concentration: Social Work.
- Frances Peters Guzie, Brownston
B.A. '47, University of Minnesota. Field of Concentration: Social Work.
- Marjorie Anne Hill, Winchester, Ind.
B.A. '47, Phillips University. Field of Concentration: Social Work.
- Sally Nickolova Hydukovich, Hibbing
B.S. '35, University of Minnesota. Field of Concentration: Social Work.
- Verna Lorraine Johnson, Pierz
B.S. '42, St. Cloud State Teachers College.
Field of Concentration: Social Work.
- Thelma Lois Jokumsen, Oakland, Calif.
B.A. '48, University of California. Field of Concentration: Social Work.
- Harriet B. Lavine, Trenton, N.J.
B.A. '48, University of Wisconsin. Field of Concentration: Social Work.
- William Lloyd Lester, Newton, Iowa
B.A. '49, Luther College. Field of Concentration: Social Work.
- Milford Burton Lytle, Jr., Minneapolis
B.A. '49, University of Minnesota. Field of Concentration: Social Work.
- Betty Kullman Mellor, Minneapolis
B.A. '47, Oberlin College. Field of Concentration: Social Work.
- Donald Abbott Miller, St. Paul
B.S. '48, University of Minnesota. Field of Concentration: Social Work.
- Ann Murphy, Belmont, Mass.
B.A. *cum laude* '49, Radcliffe College. Field of Concentration: Social Work.
- Katharine Marie Murphy, Belmont, Mass.
B.S. '48, Simmons College. Field of Concentration: Social Work.
- Gordon Dale Nelson, Minneapolis
B.S. '48, University of Minnesota. Field of Concentration: Social Work.
- Shirley Marie Olson, Minneapolis
B.A. *magna cum laude* '49, University of Minnesota. Field of Concentration: Social Work.
- Walter Edward Purviance, Baltimore, Md.
B.A. '49, Morgan State College. Field of Concentration: Social Work.
- William Lee Roberts, Lake Crystal
B.A. '49, Macalester College. Field of Concentration: Social Work.
- Heinrich Albert Schiller, Berlin, Germany
B.A. '48, University of Berlin. Field of Concentration: Social Work.
- Herman Philip Schuchman, Minneapolis
B.S. '47, Columbia University; M.A. '49, State University of Iowa. Field of Concentration: Social Work.
- Alice Blackmer Skinner, Minneapolis
B.A. '45, Radcliffe College. Field of Concentration: Social Work.
- Frances E. Skinner, St. Paul
B.S. '37, Michigan State Normal College; M.A. '40, University of Michigan. Field of Concentration: Social Work.

Jean Elizabeth Slinde, St. Paul
B.A. '49, University of Minnesota. Field of
Concentration: Social Work.

Marianne Bruvold Spalding, Bricelyn
B.S. cum laude '47, Hamline University.
Field of Concentration: Social Work.

Marjorie Kathryn Stapf, Moberg,
S.D.
B.S. '44, Northern State Teachers College.
Field of Concentration: Social Work.

Adrin Culver Sylling, St. Paul
B.A. '49, Concordia College. Field of Con-
centration: Social Work.

Nick Anthony Vincelli, St. Paul
B.S. '47, University of Notre Dame. Field of
Concentration: Social Work.

Helen Jaeck Yesner, Minneapolis
B.S. '33, University of Minnesota. Field of
Concentration: Social Work.

Doctor of Philosophy

Edward Larrabee Adams, Jr.,
Ann Arbor, Mich.
B.A. '37, M.A. '39, University of Michigan;
M.A. '49, University of Minnesota. Major:
Education. Minor: Educational Psychology.
Thesis: A Study of Certain Determinants of
Social Sensitivity in Residence Hall Coun-
selors' Perception of Group Structure. Major
Adviser: Prof. R. E. Eckert.

Woodrow John Aunan, St. Paul
B.S. '42, M.S. '47, University of Minnesota.
Major: Animal Husbandry. Minors: Zoology
and Statistics. Thesis: A Method for Measur-
ing the Proportion of Fat and Lean Tissue
in Swine Carcasses. Major Adviser: Prof. L. M.
Winters.

David William Belcher, Madison,
Wis.
B.B.A. with distinction '39, M.A. '48, Univer-
sity of Minnesota. Major: Economics. Minor:
Psychology. Thesis: Some Economic Factors
Influencing Levels of Employment. Major
Adviser: Prof. Dale Yoder.

Michael G. Boosalis, Faribault
B.S. '41, M.S. '48, University of Minnesota.
Major: Plant Pathology. Minor: Botany. The-
sis: The Epidemiology of *Xanthomonas trans-
lucens* (J. J. and R.) Dowson on Cereals and
Grasses. Major Adviser: Prof. E. C. Stakman.

William Claude Budd, Maple Plain
B.A. '44, Hamline University; B.S. '48, M.A.
'48, University of Minnesota. Major: Educa-
tion. Minor: Educational Psychology. Thesis:
The Effect of the 1947 and 1949 State Aid
Legislation on the Financing of Education in
Minnesota. Major Adviser: Prof. M. G. Neale.

James Walter Butcher, Pittsburgh, Pa.
B.S. '43, University of Pittsburgh; M.S. '49,
University of Minnesota. Major: Entomology.
Minor: Plant Pathology. Thesis: Studies on
Larch Sawfly Populations, Factors Contributing
to Their Fluctuations and Early Recognition
of Host Decadence. Major Adviser: Prof. A. C.
Hodson.

Li-Chin Chiang, Peking, China
B.S. '44, M.S. '46, The Catholic University
(China); B.S. '47, Yenching University.
Major: Pharmaceutical Chemistry. Minor:
Organic Chemistry. Thesis: The Synthesis of
Some Tetrahydroxy Biphenyls. Major Adviser:
Prof. Ole Gisvold.

Chester Stanley Clifton, Fort Worth,
Tex.
B.A. '32, Trinity University; M.A. '39, Duke
University; M.A. '48, University of Minnesota.
Major: Social Work. Minor: Sociology. Thesis:
A Study of the Leisure Time Interests and
Activities of Old Age Assistance Recipients in
Commercial Rest Homes in Minnesota. Major
Adviser: Prof. J. C. Kidneigh.

William Hugh Cram, Indianhead,
Saskatchewan, Canada
B.S.A. '39, M.Sc. '48, University of Manitoba.
Major: Horticulture. Minor: Plant Genetics.
Thesis: A Study of Parent Tree Characteristics
and Their Relationship to Vigor of Seedling
Progenies for Sixteen Selections from *Caragana
arborescens*. Major Adviser: Prof. T. M. Cur-
rence.

Kumudabhiram Das, Calcutta, India
B.Sc. '31, M.Sc. '33, Calcutta University.
Major: Plant Genetics. Minor: Botany. Thesis:
Cytogenetic Studies of Partial Sterility in
Barley. Major Adviser: Prof. C. R. Burnham.

Otto Emil Domian, St. Louis Park

B.A. *cum laude* '21, Hamline University; M.A. '28, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: State-wide Problems in the Housing of Public Education Based on a Study of Conditions in Minnesota. Major Adviser: Prof. M. G. Neale.

Donald Pendleton Duncan, St. Paul

B.S.F. '37, M.S. '39, University of Michigan. Major: Forestry. Minor: Botany. Thesis: A Study of Some of the Factors Affecting the Natural Regeneration of Tamarack [*Larix laricina* (Du Roi) K. Koch] in Minnesota. Major Adviser: Prof. H. L. Hansen.

Robert Leonard Evans, Duluth

B.Ch. with distinction '38, M.S. '39, University of Minnesota. Major: Mathematics. Minor: Physical Chemistry. Thesis: Asymptotic Solutions in the Neighborhood of a Turning Point for Linear Ordinary Differential Equations Containing a Parameter. Major Adviser: Prof. H. L. Turriffin.

Martin Samuel Friberg, Minneapolis

B.Ed. '36, Superior State Teachers College; M.Ph. '46, University of Wisconsin. Major: Mathematics. Minor: Physics. Thesis: A New Method for the Effective Determination of Conformal Maps. Major Adviser: Prof. S. E. Warschawski.

William Griffiths, Berkeley, Calif.

B.A. '35, M.A. '36, Western Reserve University. Major: Child Welfare. Minor: Education. Thesis: Behavior Difficulties of Children as Perceived and Judged by Parents, Teachers, and Children Themselves. Major Adviser: Prof. J. E. Anderson.

Richard Raymond Haefner, LaCrosse, Wis.

B.A. *cum laude* '47, M.S. '48, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: An Investigation of the Properties of the Excited States of the Beryllium and Carbon Isotopes for an Alpha Particle Model. Major Adviser: Prof. C. L. Critchfield.

Harry Robert Highkin, New Haven, Conn.

B.S. '44, University of Connecticut; M.S. '47, University of Minnesota. Major: Plant Genetics. Minor: Physiological Chemistry. Thesis: Physiological Studies of a Barley Mutant Lacking Chlorophyll B. Major Adviser: Prof. C. R. Burnham.

Kenneth Orian Hovet, New York, N.Y.

B.A. '26, St. Olaf College. Major: Education. Minors: Educational Administration, and History and Philosophy of Education. Thesis: An Examination of Curriculum Research with Special Reference to the Development of Scope and Sequence in the Core Curriculum. Major Adviser: Prof. N. L. Bossing.

William Wen-yue Hsiung, Chengtu, China

B.A. '40, National Szechwan University; M.F. '47, Yale University. Major: Forestry. Minor: Botany. Thesis: An Ecological Study of Beaked Hazel (*Corylus cornuta* Marsh.) in the Cloquet Experimental Forest, Minnesota. Major Advisers: Profs. H. L. Hansen and T. Schantz-Hansen.

Abdul Ghafoor Kausar, Lyallpur, West Punjab, Pakistan

B.Sc. '43, Punjab University. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Studies on the Biology of *Dendrophoma obscurans* (Ellis and Everhart) Anderson. Major Advisers: Profs. T. H. King and E. C. Stakman.

Bryant Eastham Kearn, Madison, Wis.

B.S. '41, Utah State Agricultural College; M.S. '42, University of Wisconsin. Major: Political Science. Minor: Journalism. Thesis: Content of Wisconsin Newspapers during Selected Election Periods. Major Advisers: Profs. A. N. Christensen and R. D. Casey.

Charles Norman Kelber, Minneapolis

B.A. *summa cum laude* '47, M.S. '48, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Self-Energy Problem in Quantum Electrodynamics. Major Advisers: Prof. E. L. Hill and C. L. Critchfield.

Thor Kommedahl, Willernie

B.S. '45, M.S. '47, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Factors Affecting the Pathogenicity of *Fusarium lini* Bolley. Major Adviser: Prof. J. J. Christensen.

Raphael Berg Levine, St. Paul

B.A. *cum laude* '41, M.A. '50, University of Minnesota. Major: Biophysics. Minor: Physiology. Thesis: Early Stage Development of Stereovectorcardiography. Major Adviser: Prof. O. H. Schmitt.

Tenho Ewald Maki, Gulfport, Miss.
B.S. with high distinction '30, M.S. '31, University of Minnesota. Major: Soils. Minor: Forestry. Thesis: Some Factors Affecting the Composition and Development of Forest Floor. Major Adviser: Prof. C. O. Rost.

Bo Gunnar Malmstrom, Stockholm, Sweden

B.S. '48, Muhlenberg College. Major: Physiological Chemistry. Minor: Physical Chemistry. Thesis: A Quantitative Histochemical Method for the Determination of Zinc and Its Application to Studies on the Gastric Mucosa. Major Adviser: Prof. David Glick.

Kenneth Ellery Ogren, Mound

B.S. with high distinction '42, M.A. '48, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Analysis of Consumer Demand for Fresh Citrus Fruits, Frozen Concentrated Orange Juice and Selected Canned Fruit Juices. Major Adviser: Prof. O. B. Jesness.

Jacob A. O. Preus, Luverne

B.A. *magna cum laude* '41, Luther College; M.A. '46, University of Minnesota. Major: Greek. Minor: Latin. Thesis: Saint Jerome's Translation Terminology. Major Adviser: Prof. D. C. Swanson.

William Gerald Rector, Minneapolis

B.A. '40, Dakota Wesleyan University; M.A. '48, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Development of Log Transportation in the Lake States Lumber Industry, 1840-1918. Major Adviser: Prof. R. C. Loehr.

Norman H. Russell, Jr., Midland, Pa.

B.S. '46, Slippery Rock State Teachers College. Major: Botany. Minor: Zoology. Thesis: Geographical Variation in the Acaulescent White Violets of North America. Major Adviser: Prof. G. B. Ownbey.

Daniel Charles Schiavone, Minneapolis

B.M.E. with high distinction '43, M.S. '49, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics and Mechanics. Thesis: Determination of the Friction Factors of Desiccants Used in Refrigeration Driers. Major Adviser: Prof. R. C. Jordan.

Theodore John Stelaff, St. Paul

B.S. '42, M.A. '44, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Study of Rural Electrification in Minnesota. Major Adviser: Prof. O. B. Jesness.

Sister Mary Seraphim Gibbons, St. Paul

B.A. '33, The College of St. Catherine; M.A. '43, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: A Solution by Iteration of the Integral Equations Connected with the Dirichlet and Neumann Problems in Three Dimensions. Major Adviser: Prof. S. E. Warschawski.

Robert Franklin Smith, Deposit, N.Y.

B.A. '39, Yale University. Major: Agricultural Biochemistry. Minor: Plant Physiology. Thesis: Studies on Protein Interaction—A Method for Determining the Constants of Interaction from Electrophoresis Data. Major Adviser: Prof. D. R. Briggs.

Walter Louis Sutor, St. Paul

B.Ch.E. '44, University of Minnesota. Major: Chemical Engineering. Minor: Electrical Engineering. Thesis: Studies on Heat Transfer and Pressure Drop for Boiling Water Flowing in a Vertical Tube. Major Adviser: Prof. A. J. Madden.

George Suzuki, Sacramento, Calif.

B.S. '44, University of Denver; M.A. '47, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: Estimation of Demand for Automotive Replacement Parts. Major Adviser: Prof. B. D. Mudgett.

Alexander Swantz, Asotin, Wash.

B.S. with honors '41, Washington State College; M.S. '49, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: Economic Effects of Federal Regulations of Fluid Milk Markets with Special Reference to the Minneapolis-St. Paul Market. Major Adviser: Prof. O. B. Jesness.

Frederick Robert Taylor, Chisholm

B.S. '39, M.S. '47, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Quality Deterioration in Minnesota Egg Marketing. Major Adviser: Prof. O. B. Jesness.

James Edgar Thompson, Coshocton, Ohio

B.A. '43, College of Wooster. Major: Mathematics. Minor: Mechanics. Thesis: Studies of the Behavior of the Mapping Function on the Boundary in Conformal Mapping. Major Adviser: Prof. S. E. Warschawski.

Fae Yvonne Tichy, Minneapolis

B.S. '43, M.D. '45, University of Minnesota. Major: Neurology. Minor: Neuropathology. Thesis: Barbiturate Encephalitis. Major Adviser: Dr. A. B. Baker.

Donald Robert Torbert, Minneapolis
 B.S. '33, M.A. '35, Ohio State University.
 Major: Fine Arts. Minor: Educational Psychology. Thesis: Minneapolis — Architecture and Architects, 1848-1908. A Study of Style Trends in Architecture in a Midwestern City Together with a Catalogue of Representative Buildings. Major Adviser: Prof. H. H. Arnason.

Raphael Omer Wagenaar, Washtucna, Wash.
 B.S. with highest honors '42, M.S. '47, Washington State College. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: Studies on Certain Factors Influencing the Growth and Survival of Pseudomonas Putrefaciens. Major Adviser: Prof. J. J. Jezeski.

Doctor of Philosophy in Surgery

Franklin Henry Ellis, Jr., Washington, D.C.

B.A. '41, Yale University; M.D. '44, Columbia University. Major: Surgery. Minor: Pathology. Thesis: Studies on the Bronchial Arteries. Major Adviser: Dr. J. H. Grindlay.

SUMMARY OF DEGREES CONFERRED BY THE UNIVERSITY DURING THE ACADEMIC YEAR 1950-51

Degrees conferred July, August, and December, 1950; March, 1951.....	3,254*
Degrees conferred this June commencement, 1951 (subject to completion of requirements)	3,402†
Total degrees conferred during 1950-51	6,656

* Includes 105 conferred at Duluth.

† Includes 300 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 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, Home Economics, and 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 sleeve. The trimming may be either black or may match the color of the hood edging.

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.

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

For the Master's and Doctor's degree, 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 their appearance on the platform)

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, Home Economics, and Veterinary Medicine	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



THE
UNIVERSITY OF MINNESOTA

Announces Its

July Commencement

1951

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, JULY 26

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 J. S. Jones, St. Paul

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

The Honorable Sheldon V. Wood, Minneapolis

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 hundredth birthday. While observing this milestone, 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 100,000 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 twenty-thousand 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 demonstration 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 because it is one of the greatest state universities in the nation, but 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 new Variety Club Heart Hospital to be dedicated 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 candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University of Minnesota from 7:00 to 7:30 p.m., they will hear the Flemish bells being played from Northrop Memorial Auditorium, Miss Peggy D. Smith, B.S. '49, carillonneur. Admission to the July commencement exercises in the Auditorium is by guest card only. Guests will be seated as they arrive in the Auditorium and will remain seated until the colors are presented.

ORGAN RECITAL: Beginning at 7:30 p.m., Mr. Arthur B. Jennings, Associate Professor of Music and University Organist, will play:

Gigue in A major	Bach
Sarabande from the "Pastoral Suite"	Bach
Toccata	Mereaux
Prelude from the oratorio "The Deluge"	Saint-Saëns
Toccata	Gigout

PROCESSIONAL: Second Organ Sonata - - - - - Mendelssohn

PROCESSIONAL: As candidates for degrees enter the Auditorium at 8:00 p.m. the curtain will be drawn. Seated on the platform, left to right, are: Dr. Richard K. Gaumnitz, Assistant Dean of the School of Business Administration, Marshal; Dr. Ray G. Price, Professor of Education, Marshal; Dr. Theodore C. Blegen, Dean of the Graduate School; Dr. Richard L. Kozelka, Dean of the School of Business Administration; Dr. Henry Schmitz, Dean of the College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Dr. J. William Buchta, Assistant Dean of the College of Science, Literature, and the Arts, and Chairman of the Committee, University College; Dr. Errett W. McDiarmid, Dean of the College of Science, Literature, and the Arts; Commander Wilmer E. Rawie, USN, Associate Professor of Naval Science; Mr. Vaughn L. Ausman, Assistant to the Recorder, Admissions and Records; Mr. Thomas A. H. Teeter, Dean of the Summer Session; Dr. Malcolm M. Willey, Vice President, Academic Administration; Dr. Walter Castella Coffey, President Emeritus of the University of Minnesota; The Honorable George W. Lawson, Second Vice President, Board of Regents; The Honorable Lester A. Malkerson, Member, Board of Regents; The Reverend William Larsen, Director, Lutheran Student Association; Major James C. Kraus, USAF, Assistant Professor of Air Science and Tactics; Dr. Alfred L. Vaughan, Assistant Dean of the General College; Dr. Richard T. Arnold, Assistant to the Dean, Institute of Technology; Dr. Willis E. Dugan, Professor of Education; Dr. Howard L. Horns, Assistant Dean of the College of Medical Sciences; Mr. Roy A. Schuessler, Associate Professor of Music; Dr. Edwin Cieslak, Associate Professor of Biological Science, 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. Roy A. Schuessler, M.A., Associate Professor of Music, soloist.

INVOCATION: The Reverend William Larsen, M.A., Member, Minnesota Council of Religion and Director, Lutheran Student Association, University of Minnesota.

Order of Events

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

COMMENCEMENT ADDRESS: "Feathers for Worms," Dr. Walter Castella Coffey, President Emeritus, University of Minnesota.

CONFERRING OF COMMISSIONS: Dean Thomas A. H. Teeter, Dean of the Summer Session, will introduce Major James C. Kraus, USAF, Assistant Professor of Air Science and Tactics, who will present the candidates for commissions in the United States Air Force and the United States Navy. The commissions will be presented by Vice President Malcolm M. Willey; the oath of office will be administered by Commander Wilmer E. Rawie, USN, Associate Professor of Naval Science.

CONFERRING OF DEGREES: Dean Thomas A. H. Teeter, B.S., 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 Alfred L. Vaughan, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Assistant Dean J. W. Buchta, Ph.D., University College; Assistant to the Dean Richard T. Arnold, Ph.D., Institute of Technology; Dean Henry Schmitz, Ph.D., College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Professor Willis E. Dugan, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Assistant Dean Howard L. Horns, M.D., College of Medical Sciences; Dean Theodore C. Blegen, Ph.D., Graduate School. All degrees will be conferred by Vice President Malcolm M. 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 Dean Theodore C. Blegen to Vice President Malcolm M. 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!	Like the stream that bends to sea,
Hail to thee, our college dear!	Like the pine that seeks the blue,
Thy light shall ever be	Minnesota, still for thee
A beacon bright and clear;	Thy sons are strong and true,
Thy sons and daughters true	From thy woods and waters fair,
Will proclaim thee near and far;	From thy prairies waving far,
They will guard thy fame	At thy call they throng
And adore thy name;	With their shout and song,
Thou shalt be their Northern Star.	Hailing thee their Northern Star.

RECESSIONAL: Mr. Arthur B. Jennings, University Organist.

Toccata from the Fifth Symphony - - - - - Widor

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 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 AIR SCIENCE AND TACTICS

Second Lieutenant, USAFR

Thomas Harvey Maxwell, Minneapolis Charles Luther Wetzler, Minneapolis
Wallace Stanley Rogers, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, Line, USN

John Thomas Grant, St. Paul Melrose Bernard O'Rourke, Bowbells,
N. D.

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

Carol Evelyn Elmer, St. Paul	Bette Ann Hill, St. Paul
Wesley Clayton Fystrom, Minneapolis	Vivian Pearl Johnson, Minneapolis
Ronna Terry Goldberg, Minneapolis	Sydell Louise Krueger, Rush City
Priscilla Ruth Gooch, St. Paul	Gerald Paymar, St. Paul
	Beatyenne Wright, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Margaret Louise Anderson, St. Paul	Susan Roberts, Minneapolis
Mary Elaine McMasters, St. Louis Park	Theo Robert Spannaus, Excelsior

Bachelor of Arts

- Alexander Abrams, Jr., Minneapolis
Benjamin Franklyn Albitz, Jr., Minneapolis
Alvin E. Berglund, Jr., Cambridge
Richard Edson Borreson, Thief River Falls, CUM LAUDE
John Alan Brown, Minneapolis
James Beryl Clifford, Little Falls
Mary Elizabeth Croll, St. Paul
Myron George Cusack, Washington, D.C.
George Davis, Minneapolis
James Alden Drey, Breckenridge
Noreen Elizabeth Eilts, Austin
John Leroy Fletcher, A.L.A., Minneapolis
Lewis George, Hillsboro, N.D.
John Thomas Grant, St. Paul
Charles Schuneman Grosche, St. Paul
Audrey Lois Hagemeister, Fessenden, N.D.
Dwight Roland Haglund, Minneapolis
Norman Sidney Harris, Rolla, N.D.
Miner Hollis Hendrickson, A.A., Minneapolis
Cornelius Henry Hook, Jr., St. Paul
Frank Hooper, Minneapolis
Kendall Slade Houlton, Elk River
John Alfred Johnson, Jr., St. Paul
Patricia Ann Klasen, B.S., Brainerd
Dorothy Helen Lawler, Minneapolis
Robert Oscar Lindstrom, Minneapolis
Dorothy Kugler Lobdell, San Francisco, Calif., MAGNA CUM LAUDE
Thomas Harvey Maxwell, Minneapolis
Neil Roger McKellips, Winona
Maurice David Myers, Minier, Ill.
Sally Higgins O'Connell, Excelsior
Morris Robert Olson, Blue Earth
Melrose B. O'Rourke, A.L.A., Bowbells, N.D.
William Thomas Persons, B.B.A., Portland, Ore.
Daniel Edwin Peterson, Minneapolis
John Martin Peterson, Minneapolis
Julia Mary Regan, Minneapolis
William Carlisle Ryerse, Minneapolis
Richard D. Sands, Minneapolis, CUM LAUDE
Gervaise Martin Sattler, Minneapolis
Robert Eugene Schmitz, Minneapolis
Donald Richard Schuette, North St. Paul, MAGNA CUM LAUDE
Nathan Mayer Shapiro, Chicago, Ill.
Rita Marie Smersh, Owatonna
Robert Elliott Swayne, Minneapolis
Harry Arvid Swedlund, Minneapolis, MAGNA CUM LAUDE
Robert Donald Teal, Almena, Wis.
Albert Raymond Trudeau, Rochester
Thomas Frederick Walker, Sandstone
Macnider Wetherby, Jr., Minneapolis
Robert Edward Wilson, Minneapolis
Paul David Youngdahl, Excelsior

Bachelor of Science

Francis Marie Lowery, St. Paul

Bachelor of Science in Library Science

Eunice Grant Ryan, B.A., M.A.,
St. Paul

Ruth Myrtle Toyne, M.A., Muscatine,
Iowa

UNIVERSITY COLLEGE

Bachelor of Arts

Anna M. Pajala, A.A., Virginia

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Walter Louis Melnik, St. Paul, WITH DISTINCTION
Paul Warren Nebel, Braham, HIGH DISTINCTION
Grove Junior Ruth, Minneapolis, WITH DISTINCTION
Robert Carl Vanstrum, Minneapolis, WITH HIGH DISTINCTION

Bachelor of Chemical Engineering

Gene William Claybaugh, Mound, WITH HIGH DISTINCTION
Peter Sturtevant Dwan, Minneapolis
George Ramon Miller, Duluth
Donald Joseph Nemanic, Aurora
Robert Carl Vanstrum, Minneapolis, WITH HIGH DISTINCTION

Bachelor of Civil Engineering

Alvah Herbert Seeber, Grand Rapids *Charles Luther Wetzler, Minneapolis*

Bachelor of Electrical Engineering

Leland Arthur Johnson, Minneapolis
Paul Warren Nebel, Braham, WITH HIGH DISTINCTION
Douglas Woodrow Rowley, St. Paul
Fred Edgar Shoemaker, Minneapolis
John Walter Trank, Minneapolis

Bachelor of Geological Engineering

Rodney L. Bleifuss, Lindstrom

Bachelor of Mechanical Engineering

Joseph John Banke, Minneapolis, WITH DISTINCTION
Garold Lawrence Dolan, Minneapolis
John Albert Gravelle, Minneapolis
Monte Alex Henrikson, Minneapolis
Francis Roger Jones, Rochester
Allen Putnam King, St. Paul
Douglas Kay Thompson, Rhinelander, Wis.
Robert Joseph Wacker, South St. Paul
Joseph John Weinmeyer, Minneapolis

COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE

Bachelor of Science

Geraldine Steel Gould, Minneapolis, Home Economics	Donald Edward Mueller, Minneapolis, Forestry
Joan Elizabeth Hovelsrud, Minneapolis, Home Economics	Marjorie Lucille Overmire, Minneapolis, Home Economics
Catherine Coleman Jorgensen, Minneapolis, Home Economics	Patricia Almos Cristman Stadum, Bloomington, Home Economics
Harry William Kobs, Minneapolis, Forestry	Ruth Ann Weesner, Graceville, Home Economics, WITH DISTINCTION
Robert John Kruchoski, Chisholm, Forestry	

COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE AND COLLEGE OF EDUCATION

Bachelor of Science

Corrine Anne Austin, Malung, Home Economics Education, WITH DISTINCTION	Keith Frederick Kapphahn, Bertha, Agricultural Education, WITH DISTINCTION
James Lynn Edman, Alvarado, Agricultural Education	Leo K. Lick, Gaylord, Agricultural Education
William Edward Guelker, Anoka, Agricultural Education	Marion Donald Stadum, Ada, Agricultural Education
Astrid M. Haugan, St. Paul, Home Economics Education	Theodora Ellen Steege, Pine Island, Home Economics Education

COLLEGE OF EDUCATION

Bachelor of Science

Alice Lorraine Overmire Anderson, Minneapolis	William James Carter, B.B.A., Lake City
Grace V. Anderson, Clear Lake, Iowa	Cora Frances Dickerson, A.S., Holland
Katharine Jean Ansley, St. Paul, WITH DISTINCTION	Junis Elmo Dolan, Minneapolis, WITH HIGH DISTINCTION*
Vera Mae Becker, Minneapolis, WITH DISTINCTION	Richard Erling Embertson, B.B.A., Eau Claire, Wis.
Calvin Byron Blomquist, Minneapolis	Barbara Jean Evans, B.A., Minneapolis
Frank Peter Bruce, Jr., Minneapolis	Kathryn Caroline Fraley, B.A., Minneapolis
Frederick Charles Burnaby, Minneapolis	

* Nursing Education Curriculum.

- Robert Daniel Gillquist, B.A., Minneapolis
 John Paul Grygelko, Minneapolis
 Mary Jane Haraden, B.A., Chisholm
 Cecelia Beatrice Hellebo, St. Paul,
 WITH DISTINCTION
 Lila Jessie Holden, Minneapolis
 Marguerite Elizabeth Horstman,
 Round Lake, WITH DISTINCTION
 Kathryn Jean Howland, St. Paul, WITH
 DISTINCTION*
 Ethel Elliott Hutchinson, Minneapolis
 Marylyn Elayne Iverson, Minneapolis
 Margaret Susan Jackson, South St.
 Paul
 Barbara Marty Johnson, Anoka
 Elaine Charlotte Johnson, Lindstrom
 Marion Lorine Johnson, Cannon Falls
 Margaret Sophia Juul, Minneapolis
 Virginia Anderson Kelley, B.A., Min-
 neapolis
 Donald Allen Kellin, Grand Rapids
 Ruth Ann Kloster, Forest City, Iowa,
 WITH DISTINCTION
 George J. Kreuzer, Tomahawk, Wis.
 Margot Landon, B.A., West Orange,
 N.J.
 Linton Rudolph Lehrer, B.A., Park
 Rapids
 Joseph Logan, B.A., Minneapolis
 Marian Lucille Maschmann, Victor,
 Iowa, WITH HIGH DISTINCTION*
 Georgia Mae Mathews, Minneapolis
 Marilyn Earlene Maxwell, B.A., Min-
 neapolis
 Monica Lamina Murphy, Iron River,
 Mich., WITH DISTINCTION*
 Camilla A. Nelson, Minneapolis
 Esther Aleidith Nelson, Cadott, Wis.
- Marjory Ross Nosbusch, B.A., Min-
 neapolis
 Alice Augusta Olson, North St. Paul
 Eleanor Dell Olson, Albert Lea
 Wayne Monroe Pitmon, Robbinsdale
 Matie Stone Porter, Minneapolis,
 WITH DISTINCTION
 Millicent Ann Reece, Des Moines,
 Iowa, WITH DISTINCTION
 Jo-Anne Ripple, Rochester*
 Ruth Salinger, B.S., Hamburg, Ger-
 many
 Martha Jean Samels, Fargo, N.D.
 Frank Santelli, B.A., Anoka
 Joan VanDoren Scott, B.A., Minne-
 apolis
 Frances Harris Sethre, B.A., Minne-
 apolis
 Edna Tecla Simone, New York, N.Y.*
 Kenneth Dorlan Skov, B.A., St. Paul
 Dorothy LaVerne Smith, A.A., Tower
 Claire Kathleen Snider, Fulda, WITH
 DISTINCTION
 Dorothy Dewart Springer, Minneapolis
 William Allen Standly, Minneapolis
 Charles Edward Stevens, Minneapolis
 Stephen Odell Tanner, B.A., Min-
 neapolis
 Georgia M. Theodosen, Sioux Falls,
 S.D.
 Mary Ellen Tolaas, B.A., St. Paul
 Helen Thorpe Tressel, B.A., Minne-
 apolis
 Perry George Turgeon, A.A., Hopkins
 Aslaug Emilie Udem, Circle, Mont.*
 Harriet Fels Vagle, Minneapolis, WITH
 DISTINCTION
 Selma Anderson Weise, Glenwood,
 WITH DISTINCTION

Bachelor of Science in Library Science

- Alice Elizabeth Campbell, B.S., Min-
 neapolis
 Mary Angela Davison, B.E., Bemidji
 Emma Margaret Hough, B.A., Iron-
 wood, Mich.
 Gladys Jane Kehm, B.A., Mason City,
 Iowa
 Louise Ann Kienlen, B.S., Gibbon
- Ruth Hazel Labbitt, B.A., Northfield
 Lewis E. Olds, B.A., Sauk Centre
 Bernice Ensberg Pike, B.A., Sandy
 Spring, Md.
 Reba Margaret Miller Poeppey, B.A.,
 Waterloo, Iowa
 Wilma Josephine Post, B.S., Portland,
 Ore.

* Nursing Education Curriculum.

Master of Education

Arthur James Avis, B.Ed., Durand, Wis.	Nadine Olive Nice, B.S., Parsons, Kans.
Helen Ruth Cohen, B.S., Duluth	Gotthold Ottmar, B.S., Minneapolis
Edwin Robert Danielsen, B.S., Brookings, S.D.	Theron Irvin Peterson, B.S., Saxon, Wis.
Lee Dean Garton, B.S. in Music, Topeka, Kans.	Norbert John Robertson, B.S., St. Paul
Eleanor Helen Hansen, B.S., St. Paul	Joseph Anthony Rubatt, B.S., Milwaukee, Wis.
Floyd Roman Jaszewski, Minneapolis	Marjorie Walker Schooley, B.A., Rhinelander, Wis.
Max L. Klaeger, B.A., Munich, Germany	Burton Kuhl Storm, B.S., Minneapolis
Lucille Jeannette Kolind, B.A., St. Paul	Theodore Winton Thorson, B.S., Crookston
Lee H. Krough, B.A., St. Peter	Phyllis Leone Ziebarth, B.S., Minneapolis
Lyle Eugene Lewis, B.S., Milaca	

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Reginald Willis Becker, Redwood Falls	George Edward Mogush, Aurora
David Joseph Berg, Minneapolis	Robert LuVerne Petersen, Minneapolis
Douglas William Dettman, Minneapolis	Richard LeRoy Peterson, Minneapolis
Richard Winnor Graves, Minneapolis	Dewain Floyd Schulze, Caledonia
Gerald Clarence Knudson, Crookston	Lloyd Arthur Wampach, A.A., St. Cloud
John Greeley Ladd, Minneapolis	Ralph Henry Wessner, Minneapolis
Sherwin Paul Lebewitz, Minneapolis	Charles Luther Wetzler, Minneapolis
Dwight Henry Lindholm, Maple Plain	Robert Gene Worrath, Deer River
Bruce W. Lloyd, Fulda	

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Richard William Anderson, B.A., Aurora, Medicine	Morton Bearman, B.A., Minneapolis, Medicine
Richard Burton Aronsohn, B.A., Minneapolis, Medicine	Paul Frederick Bowlin, B.A., Minneapolis, Medicine
Jason Allen Aronson, B.A., Little Falls, Medicine	Henry Erwin Brandt, B.A., Wells, Medicine
Arnold Clifford Bakke, Minneapolis, Medicine	Curtis Harvey Carlson, B.A., Minneapolis, Medicine
Harold Preston Basinger, Windom, Medicine	Thomas Paul Coleman, B.A., Stanchfield, Medicine

Ralph Thomas Duddles, B.A., Excelsior, Medicine
 Sadie Ann Eastland, Willmar, Public Health Nursing
 George Brown Ewens, B.A., Eveleth, Medicine
 Ramon Michael Fusaro, B.A., Minneapolis, Medicine
 Joan Irene Gannon, Minneapolis, Public Health Nursing
 William Russell Goodchild, B.A., Minneapolis, Medicine
 William Gearey Halverson, Revere, Medicine
 Seymour Handler, New York, N.Y., Medicine
 Daniel James Hanson, B.A., Faribault, Medicine
 Harold Walden Hanson, B.A., Little Falls, Medicine
 Eugene William Haywa, B.A., Minneapolis, Medicine
 William Louis Hedrick, Minneapolis, Medicine
 James Killian Heid, Browerville, Medicine
 Carl Robert Heinzerling, B.A., Adams, Medicine
 Russell Robert Hendrickson, B.A., Crookston, Medicine
 Charles Sherman Hoyt, Minneapolis, Medicine
 John Stephen Huff, B.A., Glencoe, Medicine
 Maland Carroll Hurr, B.A., Minneapolis, Medicine
 Russell Ardean Johnson, B.A., Grand Rapids, Medicine
 James Roderick Jude, Maple Lake, Medicine
 Martin Jack Kaplan, B.A., St. Paul, Medicine
 Everett Howard Karon, St. Paul, Medicine
 Harold Katkov, B.A., St. Paul, Medicine
 Thomas Henry Kirschbaum, B.A., Minneapolis, Medicine
 Leonard Otto Langer, Jr., B.A., Minneapolis, Medicine
 Earl Russell Larson, B.A., Minneapolis, Medicine
 Donn Ellis Leuzinger, B.A., Minneapolis, Medicine
 Roy Kenton Lilleskov, B.A., St. Paul, Medicine
 Dale Regnar Lindall, B.A., Parkers Prairie, Medicine
 Leonard S. Linnell, B.A., Minneapolis, Medicine
 Bruce Raymond Little, B.A., Minneapolis, Medicine
 Gerald Eugene Maguire, B.A., Minneapolis, Medicine
 Robert Oliver McMahan, Perham, Medicine
 Thomas Arthur Meagher, B.A., Park River, N.D., Medicine
 James Christian Melby, Duluth, Medicine
 Thomas Gregory Murn, Ely, Medicine
 Eldore Bentley Nash, B.A., Waconia, Medicine
 Albert Louis Nisswandt, St. Paul, Medicine
 Joseph Louis Norquist, B.A., St. Paul, Medicine
 Roger Alan Parsons, Redwood Falls, Medicine
 Frank Stebbins Preston, Minneapolis, Medicine
 Robert Daniel Pugsley, B.A., Missoula, Mont., Medicine
 Ralph Marlyn Ramlow, B.A., Minneapolis, Medicine
 Harold Gene Richman, B.A., St. Louis Park, Medicine
 Mason C. Robbins, B.A., St. Paul, Medicine
 Winthrop Robert Rockwell, B.A., Minneapolis, Medicine
 William Donald Rudie, Duluth, Medicine
 Thomas Leo Schafer, B.A., Minneapolis, Medicine
 Herbert Alan Schoening, B.A., Minneapolis, Medicine
 Edward Leonard Segal, Minneapolis, Medicine
 Hobert Joseph Setzer, Jr., B.A., St. Paul, Medicine
 Nathan Theodore Sidley, B.A., St. Paul, Medicine

David Allen Sister, Grand Rapids, Medicine	William Edward Walter, B.A., Pine Island, Medicine
David Wesley Sontag, B.A., Lake- field, Medicine	William Richard Watson, B.A., Bow- man, N.D., Medicine
Robert Owen Taylor, B.A., Apple- ton, Medicine	Marwood Emery Wegner, B.A., Min- neapolis, Medicine
Joseph William Teynor, New Ulm, Medicine	Robert Joseph White, Minneapolis, Medicine
John Fossen Waldron, B.A., Hopkins, Medicine	Paul Archie Williams, Clinton, Medi- cine

Master of Public Health

Udom Kanishtharat, B.S. in M.E., B.S. in E.E., Bangkok, Thailand	Elena Sarmiento Quiogue, B.S.E., Manila, Philippines
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Doctor of Medicine*

Richard Ormond Leavenworth, Jr.,
B.S., St. Paul

GRADUATE SCHOOL

Master of Arts

James Larkin Adams, Balaton B.S. '43, Morningside College. Field of Con- centration: Educational Administration.	William Paul Blakely, Harlan, Iowa B.S. magna cum laude '49, University of Omaha. Major: Curriculum and Instruction. Minor: English. Thesis: Effect of Comic-Book Versions of Classics upon Seventh-Grade Stu- dents' Knowledge of and Interest in the Classics, and Reading Ability.
Frank L. Ambrozich, Carlton B.E. '39, Duluth State Teachers College. Field of Concentration: Educational Administration.	Julia Marie Breidenbach, Minneapolis B.A. '41, College of St. Benedict. Field of Concentration: Social Work.
Walter Wesley Bauer, St. Paul B.A. '49, Macalester College. Field of Con- centration: Education.	Brother I. Ambrose Trusk, Chicago, Ill. B.S. '43, Saint Mary's College. Field of Con- centration: Educational Psychology.
Gordon Bernhardt Bergum, Little Falls B.S. with distinction '47, University of Min- nesota. Field of Concentration: Curriculum and Instruction.	Brother Jude Walker, Chicago, Ill. B.A. '46, Saint Mary's College. Field of Con- centration: Curriculum and Instruction.
Robert Frederick Biehler, Summit, N.J. B.A. magna cum laude '50, Syracuse Univer- sity. Major: Child Welfare. Minor: Psychology. Thesis: Picture and Behavior Choices: A Socio- metric Study of a Kindergarten Group.	Olga Lucille Carlson, Stillwater B.S. '40, Bemidji State Teachers College. Field of Concentration: Curriculum and Instruction.

* This degree is conferred subject to the satisfactory completion of hospital internship within one month.

- Darwin Clyde Cedarleaf, St. Paul
B.A. '49, University of Minnesota. Major: Geology. Minor: Petroleum Engineering. Thesis: Petrography of Basal Tertiary Sandstone, Brewster and Presidio Counties, Texas.
- Kathryn Orpha Clark, Fort Collins, Colo.
B.A. *cum laude* '47, University of Washington. Field of Concentration: Journalism.
- Richard Finch Cornwell, Minneapolis
B.S. with distinction '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Edward Joseph Dudley, Jr., St. Paul
B.A. *cum laude* '49, University of Minnesota. Major: English. Minor: Comparative Literature. Thesis: Patterns of Imagery in Conrad's Early Fiction.
- Donald Stanley Eddy, Staples
B.S. '50, St. Cloud State Teachers College. Field of Concentration: Industrial Education.
- Reid Bartlett Elwell, Grey Eagle
B.S. '36, University of Minnesota. Field of Concentration: Educational Administration.
- Richard Erling Embertson, Eau Claire, Wis.
B.B.A. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Richard Andrew Falb, St. Paul
B.A. '48, University of Minnesota. Field of Concentration: Journalism.
- Cameron Lane Fincher, Douglasville, Ga.
B.C.S. '50, University of Georgia. Field of Concentration: Psychology.
- Evelyn Miller Franklin, Verndale
B.S. '49, University of Minnesota. Field of Concentration: Home Economics.
- Robert Laurence Fricke, Minneapolis
B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- John Charles Garry, Marshall
B.B.A. '47, B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Clifton Wellington Gray, Jr., Lyndon, Vt.
B.S. '46, United States Military Academy. Field of Concentration: Psychology.
- Gladys Griesman, Wayzata
B.A. '30, Carleton College. Field of Concentration: Social Work.
- Evelyn Lucile Grovom, Park River, N.D.
B.A. '43, Mayville State Teachers College. Field of Concentration: Curriculum and Instruction.
- Marianne Elisabeth Halley, Olean, N.Y.
B.A. '49, Wellesley College. Field of Concentration: English.
- Mae Marcella Hanlon, Cherokee, Iowa
B.A. '26, State University of Iowa. Field of Concentration: Curriculum and Instruction.
- Chadwick Clarke Hansen, Minneapolis
B.A. '48, Yale University. Field of Concentration: English.
- Harris Roland Hauge, Clarkfield
B.A. '49, St. Olaf College. Field of Concentration: Library Science.
- Francis Xavier Hennessey, Hartford, Conn.
B.A. '49, The Catholic University of America. Field of Concentration: English.
- Stanley Hirsch, New York, N.Y.
B.A. '50, Brooklyn College. Field of Concentration: English.
- Roy David Hoover, Howard Lake
B.B.A. '47, University of Minnesota. Field of Concentration: Speech.
- Ples Lee Irwin, Tacoma, Wash.
B.A. '41, University of Washington. Field of Concentration: Journalism.
- Sherman E. Iverson, Duluth
B.S. '38, University of Minnesota. Field of Concentration: Educational Psychology.
- Kenneth Harry Johnson, Brocket, N.D.
B.A. '50, University of Minnesota. Field of Concentration: Geology.
- Robert Alan Johnson, Fulda
B.A. '49, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Revolution of 1905: A Historical and Political Analysis.

Gertrude Sylvia Lund, Willmar
B.A. '36, Augsburg College. Field of Con-
centration: Curriculum and Instruction.

Paul Alvin Lundberg, Minneapolis
B.A. *magna cum laude* '48, University of Min-
nesota. Field of Concentration: Educational
Psychology.

Raymond Gates Malbone, Louisville,
Ky.
B.A. '50, University of Louisville. Field of
Concentration: English.

Boyd L. Mathers, Tallahassee, Fla.
B.S. '49, Florida State University. Major:
Psychology. Minor: Educational Psychology.
Thesis: An Experimental Test of Hull's Gradi-
ent of Reinforcement Hypothesis.

John Timothy McBride, New York,
N.Y.
B.A. *cum laude* '49, University of Minnesota.
Field of Concentration: English.

Arthur John Meuwissen, Cologne
B.S. with high distinction '50, University of
Minnesota. Field of Concentration: Indus-
trial Education.

John Ronald Milton, St. Paul
B.A. '48, University of Minnesota. Field
of Concentration: English.

Elinor Viola Mohn, Trail
B.S. with high distinction '48, University of
Minnesota. Field of Concentration: Educa-
tional Psychology.

Donna Davis Morgan, Minneapolis
B.A. *cum laude* '46, University of Minnesota.
Field of Concentration: Psychology.

William Oscar Jules Moser, Minne-
apolis
B.Sc. Honours '49, University of Manitoba. Ma-
jor: Mathematics. Minor: Physics. Thesis: Ap-
plication of Fourier Transforms to the Solu-
tion of Linear Differential-Difference Equa-
tion.

James Moyer Murk, St. Paul
M.A. '48, University of Chicago. Major:
Anthropology. Minor: History. Thesis: A
Critical Examination of Values and Value
Systems in Anthropological Theory.

Mary Coleman Nee, St. Paul
B.A. '50, Hamline University. Field of Con-
centration: Speech.

Eugene Edward Oja, Virginia
B.A. *cum laude* '50, University of Minnesota.
Field of Concentration: International Rela-
tions.

Lucille Marie Olson, Minneapolis
B.S. '50, University of Minnesota. Field of
Concentration: Educational Psychology.

Dallis Kay Perry, Anacortes, Wash.
B.S. *cum laude* '50, University of Washington.
Field of Concentration: Psychology.

Jeanette Cecelia Peterson, Minne-
apolis
B.S. with distinction '44, University of Min-
nesota. Field of Concentration: Child Wel-
fare.

William Nelson Ringdahl, Wheaton
B.A. '49, Gustavus Adolphus College. Field of
Concentration: Economics.

Reginald Arthur Henry Robson,
London, England
B.Sc. '49, University of London. Major: Soci-
ology. Minor: Psychology. Thesis: The Rela-
tionship between Social Stratification and
Adolescent Behavioral Patterns.

Ernest Olaf Sandeen, Superior, Wis.
B.S. '46, Stout Institute. Field of Concen-
tration: Industrial Education.

Virtue Jane Sanford, Wadena
B.A. *cum laude* '38, Hamline University. Field
of Concentration: Curriculum and Instruction.

Arthur Herbert Schomp, Moose Lake
B.A. *cum laude* '45, Drew University. Field
of Concentration: Psychology.

June Yooko Shimomura, Honolulu,
T.H.
B.A. '50, Mount Holyoke College. Field of
Concentration: Child Welfare.

Reynold John Skotte, Minneapolis
B.A. '48, Augsburg College. Field of Concen-
tration: Educational Administration.

Malcolm Loran Smiley, St. Paul
B.A. '26, Macalester College. Field of Con-
centration: Educational Administration.

Alyce Wilhelmina Sotaaen, Minne-
apolis
B.S. with distinction '37, University of Min-
nesota. Field of Concentration: Curriculum
and Instruction.

Walter Beekman Studdiford, Somerville, N.J.

B.A. *cum laude* '50, Hope College. Field of Concentration: Psychology.

Clayton LeRoy Stunkard, Minneapolis
B.A. '48, University of Minnesota. Field of Concentration: Educational Psychology.

Myron Reigstad Swanson, Minneapolis

B.A. *magna cum laude* '38, St. Olaf College. Field of Concentration: Scandinavian Area Studies.

James Robert Thompson, Minneapolis
B.A. '47, University of Minnesota. Major: Speech. Minor: Art. Thesis: Influences of Modern Painting on the "New Stagecraft."

Cecil H. Uyehara, Tokyo, Japan
B.A. '48, Keio University (Japan). Field of Concentration: Political Science.

Frances Elizabeth Valasek, Minneapolis

B.A. *magna cum laude* '48, University of Minnesota. Major: Psychology. Minor: Sociology. Thesis: The Effect of Anti-Semitism on Jewish Group Identification.

Margaret Lucia Vollendorf, Eau Claire, Wis.

B.S. '47, University of Minnesota. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: The Combined Courses Compared to the Independent Courses in Eighth-Grade General Science and Mathematics.

Richard Norris Walker, Greenwich, Conn.

B.A. '49, Yale University. Field of Concentration: Child Welfare.

Ralph Eugene Walter, St. Paul

B.S. '49, University of Minnesota. Field of Concentration: International Relations.

Henry Hans Wanke, Montevideo

B.A. *cum laude* '49, University of Minnesota. Field of Concentration: Area Studies—Central Europe.

Ruth Foster Whipple, Minneapolis

B.A. *cum laude* '49, University of Minnesota. Field of Concentration: French.

J. Kingsley Widmer, Minneapolis

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

Howard Yolen Williams, Jr., St. Paul

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

Master of Arts in Public Administration

Floyd O. Flom, Glenwood

B.A. '42, Hamline University. Field of Concentration: Public Administration.

Edward Raymond Kienitz, Minneapolis

B.A. '30, Macalester College. Major: Public Administration. Thesis: Budgeting Procedures in Hennepin County, Minnesota.

Robert Willis Warren, Sturgeon Bay, Wis.

B.A. *magna cum laude* '50, Macalester College. Field of Concentration: Public Administration.

Master of Business Administration

Charles Arthur Dickinson, Minneapolis

B.E.E. '49, University of Minnesota. Field of Concentration: Business Administration.

Joseph George Popovitch, Parma, Ohio

B.B.A. '50, John Carroll University. Field of Concentration: Business Administration.

Master of Science

Kenneth Francis Bickford, Crosby
E.M. '39, University of Minnesota. Field of Concentration: Geology.

Thomas Ray Blackburn, Fort Collins, Colo.

B.S. '41, Colorado State College of Agriculture and Mechanic Arts. Major: Animal Husbandry. Minor: Agricultural Economics. Thesis: A Study of the Performance Records on Minnesota No. 1 Swine.

Wen-Hua Chang, Formosa, China

B.S. '46, National Southwest Associated University (China). Major: Agricultural Biochemistry. Minor: Forestry. Thesis: Paper Partition Chromatography of Monohydric Phenols and Its Application to the Model-Lignin Degradation Reaction.

Laurent Armand Charette, Kapuskasing, Ontario, Canada

B.S.A. '48, Ontario Agricultural College. Field of Concentration: Animal Husbandry.

Frank Albert del Prado, Paramaribo, Surinam, South America

B.S. '49, Howard University. Major: Plant Pathology. Minor: Agricultural Botany. Thesis: A Study of the Micro-Flora of Rice Seed and the Relation of These Organisms to Quality and Storage Deterioration of Rice.

Charles Deane Evans, Montrose, N.Y.

B.S. with distinction '48, University of Minnesota. Major: Economic Zoology. Minor: Botany. Thesis: A Study of the Movements of Waterfowl Broods in Manitoba.

Ian Frederick Furniss, Manitou, Manitoba, Canada

B.S.A. '49, University of Manitoba. Major: Agricultural Economics. Minor: Economics. Thesis: Relationship of Farm Mechanization to Size of Farm in the Prairie Provinces of Canada.

Velvl William Greene, Winnipeg, Manitoba, Canada

B.S.A. '49, University of Manitoba. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: The Influence of Various Temperatures on the Growth and Biochemical Activity of Certain Psychrophilic Bacteria Important to the Dairy Industry.

Frederick C. Heneman, Jr., Mason City, Iowa

B.A. '47, University of Minnesota. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: Fractionation Studies of an Immunizing Factor in Hog Cholera Virus Serum.

Harriett Marie Herzog, Cleveland, Ohio

B.Sc. cum laude '49, Ohio State University. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Chloroform Extraction of Aluminum Cupferrate.

Richard Allen Hummel, Blue Earth

B.S. '49, Iowa State College. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Separation of Aluminum from Iron Using Thioglycolic Acid.

Thomas Leonard Joseph, Jr., St. Paul

B.Ch.E. '50, B.B.A. '50, University of Minnesota. Field of Concentration: Metallurgy.

Kwo-Chun Kwan, Hongkong, China

B.S. '43, National Southwest Associated University (China). Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: A Study of Leucine Anhydride.

Clarence Walton Lillehei, Minneapolis

B.S. with distinction '39, M.D. '42, University of Minnesota. Major: Physiology. Minor: Surgery. Thesis: The Experimental Production of Diffuse Proliferative Glomerulonephritis by Utilization of Arteriovenous Fistula Stress with Bacteriemia.

Emert William Lindroos, Mullan, Idaho

B.S. in Min.E. with high honors '33, University of Idaho. Major: Metallurgy. Minor: Geology. Thesis: The Use of Starch and Starch Products in the Flotation of Iron Ore.

William Eldon McLennan, Minneapolis

B.A. '42, University of Minnesota. Field of Concentration: Library Science.

Arvid Neil Pearson, Minneapolis

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

- Frans George Pieters, Guatemala City, Guatemala
B.S. with distinction '50, University of Minnesota. Field of Concentration: Soils.
- Helen Theresa Trent Reed, Hope, Arkansas
B.S. '44, Arkansas State College. Field of Concentration: Home Economics.
- Andrea Guelfo Salvatore, Messina, Italy
Graduate '49, University of Rome. Field of Concentration: Physical Chemistry.
- Karl August Sense, Kiel, Germany
B.A. '39, Albany State College for Teachers. Field of Concentration: Physics.
- Douglas Maynard Sheridan, Rochester
B.A. '43, Carleton College. Major: Geology. Minor: Metallurgy. Thesis: Geology of the High Climb Pegmatite, Custer County, South Dakota.
- Lloyd Anthony Spetzman, St. Paul
B.A. '48, University of Minnesota. Major: Botany. Minor: Zoology. Thesis: Plant Geography and Ecology of the Arctic Slope of Alaska.
- William Fredric Stowasser, Jr., Milwaukee, Wis.
B.S. '43, University of Wisconsin. Major: Metallurgy. Minor: Physical Chemistry. Thesis: The Effect of Some Additives on the Microstructure and Strength of Iron Ore Pellets.
- Richard Theodore Ward, Lincoln, Neb.
B.S. '48, University of Nebraska. Major: Botany. Minor: Plant Genetics. Thesis: The Vegetation of Nunataks and Related Areas of the Juneau Ice Field, Alaska.
- Bruce Huntington Warren, Duluth
B.A. with distinction '49, University of Minnesota. Major: Zoology. Minor: Entomology. Thesis: Metazoan Parasites of the Lake Herring, *Leucichthys artedi* LeSeuer 1818, from the North Shore of Lake Superior.
- Curtis Marshall Wilson, St. Cloud
B.S. with distinction '48, University of Minnesota. Major: Agricultural Biochemistry. Minor: Plant Physiology. Thesis: Seasonal Variations in the Carbohydrates of the Living Bark of *Robina pseudoacacia* in Relation to Frost Hardiness.
- John Woncik, Watervliet, N.Y.
Bach. Geol. '50, University of Tulsa. Major: Geology. Minor: Petroleum Engineering. Thesis: The Upper Cretaceous Rocks of Lafayette County, Arkansas.

Master of Science in Chemical Engineering

Frank Joseph Herrmann, Grand Rapids, Mich.

B.Ch.E. *magna cum laude* '49, University of Detroit. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Kinetic Studies on the Hydrolysis of Triacetin Using a Cation Exchange Resin as Catalyst.

Master of Science in Civil Engineering

- Leon Joseph Hamerly, Menomonie, Wis.
B.S. '42, United States Military Academy. Field of Concentration: Civil Engineering.
- Julian Joseph Idzorek, St. Cloud
B.C.E. '50, University of Minnesota. Field of Concentration: Civil Engineering.
- Harvey Walter Taylor, Rapid City, S.D.
B.S. in Ch.E. '49, South Dakota School of Mines and Technology. Field of Concentration: Civil Engineering.
- Robert Gregg Williamson, Wilbraham, Mass.
B.S. '46, United States Military Academy. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Charles Andrew Waldron, St. Louis,
Mo.

D.D.S. '45, University of Minnesota. Major:
Dentistry (Oral Pathology). Minor: Dentistry
(Oral Diagnosis). Thesis: Central Fibrous
Lesions of the Jaw Bones.

Master of Science in Mechanical Engineering

Lyle Eldon Fuller, Cedar Rapids,
Iowa

B.S. in M.E. '47, State University of Iowa.
Field of Concentration: Mechanical Engineer-
ing.

Roy Anthony McKinnon, Minne-
apolis

B.Aero.E. with distinction '45, M.B.A. '48,
University of Minnesota. Field of Concentra-
tion: Mechanical Engineering.

Edward Merrill Smith, Chicago, Ill.
B.S.M.E. with distinction '49, Purdue Uni-
versity. Major: Mechanical Engineering.
Minor: Electrical Engineering. Thesis: The
Mechano-Electronic Transducer as Applied to
the Sensing of Dynamic Pressures.

Donald Richard Wedan, Minneapolis
B.Mech.E. '47, University of Minnesota. Field
of Concentration: Mechanical Engineering.

Gordon Richmond Whitnah, Minne-
apolis

B.Mech.E. with distinction '48, University of
Minnesota. Major: Mechanical Engineering
(Heating, Ventilation, and Refrigeration).
Minor: Mechanical Engineering (Thermody-
namics). Thesis: An Experimental Investiga-
tion of Air Flow Regulation.

Master of Science in Medicine

Oscar Weir Hills, San Marino, Calif.
B.A. '38, Yale University; M.D. '43, Harvard
University. Major: Medicine. Minor: Physi-
ology. Thesis: Blood Lactic and Pyruvic Acid
Studies in Diabetes Mellitus and "Cushing's
Syndrome."

Master of Science in Physical Medicine

Thomas Page Anderson, Anadarco,
Okla.

B.S. '40, M.D. '43, University of Oklahoma.
Major: Physical Medicine. Minor: Physiology.
Thesis: An Experimental Study of the Effects
of Ultrasonics on the Lower Spinal Cord and
Peripheral Nerves.

Ralph Edwin DeForest, Detroit,
Mich.

B.S. '40, M.D. '43, Wayne University. Major:
Physical Medicine. Minor: Physiology. Thesis:
The Effects of Ultrasound on Growing Bone.

Paul Andrew Nelson, Minneapolis

B.A. '41, Gustavus Adolphus College; M.D.
'45, University of Minnesota. Major: Physical
Medicine. Minor: Physiology. Thesis: Tem-
peratures Produced in Bone Marrow, Bone
and Adjacent Tissues by Ultrasonic Dia-
thermy.

Master of Science in Surgery

Josiah Fuller, Rochester

B.A. '41, Dartmouth College; M.D. '43, Harvard University. Major: Surgery. Minor: Physiology. Thesis: A Study of Intra-aortic and Peripheral Arterial Pressure during Surgical Repair of Coarctation of the Aorta.

Master of Social Work

Ortrude Borowski, Almena, Wis.

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

Donna Louise Petterson, Mankato

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

Marion Charlotte Ekholm, St. Paul

B.A. '39, Macalester College. Field of Concentration: Social Work.

Rosalyn Ravits, St. Paul

B.A. '46, University of Minnesota. Field of Concentration: Social Work.

Jo Anne Eaton Ruby, Rochester

B.A. *cum laude* '47, University of Minnesota. Field of Concentration: Social Work.

Doctor of Philosophy

Kishan Singh Bedi, Punjab, India

B.S. '29, M.S. '33, University of the Punjab. Major: Plant Pathology. Minor: Botany. Thesis: Factors Affecting the Formation of Sclerotia, Apothecia and Survival of *Sclerotinia sclerotiorum* (Lib.) deBary. Major Adviser: Prof. E. C. Stakman.

Roy Clair Buck, State College, Pa.

B.S. '42, M.S. '47, Pennsylvania State College. Major: Sociology. Minor: Agricultural Economics. Thesis: An Approach to the Measurement of Locality Group Identification in a Rural Trade Area. Major Adviser: Prof. Lowry Nelson.

Robert Raymond Berg, St. Paul

B.A. '48, University of Minnesota. Major: Geology. Minor: Zoology. Thesis: The Franconia Formation of Minnesota and Wisconsin. Major Adviser: Prof. W. C. Bell.

Dwight Lowell Burton, Virginia

B.S. with high distinction '43, M.A. '47, University of Minnesota. Major: Education. Minor: English. Thesis: A Comparison of Three Methods of Teaching Appreciation of the Short Story to Twelfth-Grade Students. Major Adviser: Prof. D. V. Smith.

Sherwood Olman Berg, Hendrum

B.S. with highest honors '47, South Dakota State College; M.S. '48, Cornell University. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Production Credit Associations in the State of Minnesota. Major Adviser: Prof. E. F. Koller.

Edward Joseph Cronin, South Bend, Ind.

B.A. *cum laude* '38, University of Notre Dame; M.A. '40, University of Chicago. Major: English. Minor: Philosophy. Thesis: Joseph Conrad: A Moral Analysis. Major Adviser: Prof. W. V. O'Connor.

Bernard Carl Borning, Moscow, Idaho

B.A. *cum laude* '36, University of Minnesota. Major: Political Science. Minor: Economics. Thesis: The Political Ideas of Charles A. Beard. Major Adviser: Prof. B. E. Lippincott.

William George Dibos, Minneapolis

B.A. '37, University of Chicago; M.A. '40, Oberlin College. Major: French. Minor: Spanish. Thesis: Chaulieu and La Fare—A Study in Literary History. Major Adviser: Prof. E. H. Sirich.

William James Dulmage, Winnipeg,
Man., Canada

B.Sc. Honours '46, University of Manitoba.
Major: Physical Chemistry. Minor: Mathe-
matics. Thesis: The Crystal Structures of Hy-
drogen Cyanide and Pentaborane. Major Ad-
viser: Prof. W. N. Lipscomb.

David Frank Eggers, Jr., Nashville,
Tenn.

B.S. with highest honors '43, University of
Illinois. Major: Physical Chemistry. Minor:
Mathematics. Thesis: Vibrational Infrared In-
tensities. Major Adviser: Prof. Robert Living-
ston.

Louis Anthony Errede, New Britain,
Conn.

B.S.Chem. with distinction '47, University of
Michigan. Major: Organic Chemistry. Minor:
Physical Chemistry. Thesis: Some Aspects of
Aromatic Substitution. Major Adviser: Prof.
W. M. Lauer.

Lyle Osbern Estenson, Blooming
Prairie

B.A. *magna cum laude* '36, Luther College;
M.A. '42, State University of Iowa. Major:
Educational Psychology. Minor: English.
Thesis: An Investigation of the Relationship
between Personality as Measured by the Min-
nesota Multiphasic Personality Inventory and
Occupational Interests as Measured by Strong's
Vocational Interest Blanks. Major Adviser:
Prof. C. G. Wrcnn.

Lillian Feder, New York, N.Y.

B.A. '45, Brooklyn College; M.A. '47, Colum-
bia University. Major: English. Minor: Latin.
Thesis: John Dryden's Interpretation and Use
of Latin Poetry and Rhetoric. Major Adviser:
Prof. S. H. Monk.

Albert Clarence Ferguson, Fort Col-
lins, Colo.

B.S.A. '39, University of Manitoba; M.S. '48,
University of Minnesota. Major: Plant Ge-
netics. Minor: Plant Pathology. Thesis: A
Study of the Relationship between Characters
in Inbred Lines of Onions and Their Crosses.
Major Adviser: Prof. H. K. Hayes.

Ellsworth M. Gerritz, Minneapolis

B.E. *cum laude* '38, St. Cloud State Teachers
College; M.A. '47, University of Minnesota.
Major: Educational Administration. Minor:
Educational Psychology. Thesis: The Influence
of the Pattern of High School Subjects on
Academic Success in the First Year of the Col-
lege of Science, Literature, and the Arts of the
University of Minnesota. Major Adviser: Prof.
M. G. Neale.

Mohammed Hashim, Hyderabad,
Deccan, India

B.Sc. '43, M.Sc. '45, Osmania University.
Major: Plant Genetics. Minor: Plant Pathol-
ogy. Thesis: Studies of the Mode of In-
heritance of Leaf Rust Reaction and Other
Characteristics in Crosses of Frontana with
Thatcher and Newthatch Wheats. Major Ad-
viser: Prof. C. R. Burnham.

Robert Leon Jones, Wichita, Kan.

B.A. '42, University of Wichita; M.A. '47,
University of Minnesota. Major: Psychology.
Minors: Educational Psychology and Journal-
ism. Thesis: A Personnel Study of Communi-
cation Specialists. Major Advisers: Profs. D. G.
Paterson and W. W. Cook.

William Robert Kneebone, Eveleth

B.S. with distinction '47, M.S. '50, University
of Minnesota. Major: Plant Genetics. Minor:
Plant Pathology. Thesis: Factors Related to
Forage Quality and to Seed Production among
Eight Clones of *Bromus inermis* Leyss. and
Their Polycross Progenies. Major Advisers:
Profs. H. L. Thomas and M. F. Kernkamp.

Haym Kruglak, Milwaukee, Wis.

B.A. '34, M.A. '36, University of Wisconsin.
Major: Education. Minor: Physical Science.
Thesis: Experimental Outcomes of Laboratory
Instruction in Elementary College Physics.
Major Adviser: Prof. P. O. Johnson.

Bruce Linder Larson, Minneapolis

B.S. '48, University of Minnesota. Major:
Agricultural Biochemistry. Minor: Bacteriol-
ogy. Thesis: Studies on the Sulfhydryl Groups
of Proteins with Particular Reference to Their
Effect on the Baking Action of Nonfat Dry
Milk Solids. Major Advisers: Profs. W. F.
Geddes and Robert Jenness.

William Earl McDaniel, California,
Mo.

B.S. '42, University of Missouri; M.S. '43,
University of Illinois. Major: Agricultural
Economics. Minor: Economics. Thesis: A
Study of Technological Change and Its Effect
upon Production and Cash Expenses from 1910
to 1949 on Southeastern Minnesota Dairy
Farms. Major Adviser: Prof. G. A. Pond.

Jonathon Collins McLendon, Jr.,
University, Ala.

B.A. '40, University of Georgia; M.A. '47,
University of Minnesota. Major: Social Sci-
ence. Minor: Education. Thesis: A Technique
for Deriving a Social Studies Curriculum from
Current Affairs. Major Adviser: Prof. E. B.
Wesley.

Sophie Oleksa, Brooklyn, N.Y.

B.A. *magna cum laude* '41, Brooklyn College;
M.A. '42, Bryn Mawr College. Major: Physics.
Minor: Mathematics. Thesis: Density of States
in Light Nuclei. Major Adviser: Prof. C. L.
Critchfield.

Delmer Joseph Rodabaugh, St. Paul

B.A. '32, Park College; M.A. '38, State Uni-
versity of Iowa. Major: English. Minor:
Philosophy. Thesis: Hawthorne's Use of the
English and the Italian Past. Major Adviser:
Prof. Tremaine McDowell.

Rameshwar Singh, Amnaur, Bihar,
India

B.Sc. '43, Agricultural College (Cawnpore,
India); M.Sc. '45, Benares Hindu University.
Major: Plant Genetics. Minor: Plant Pathol-
ogy. Thesis: Inheritance in Maize of Reaction
to the European Corn Borer (*Pyrausta nubi-
lalis*). Major Adviser: Prof. H. K. Hayes.

Peter Arthur Robert Stewart, Winni-
peg, Man., Canada

B.Sc. with honours '43, University of Mani-
toba; M.S. '49, University of Minnesota.
Major: Biophysics. Thesis: Some Effects of
Altered Ion Environment on the Low-Fre-
quency Admittance Pattern of Nerve Mem-
brane. Major Adviser: Prof. O. H. Schmitt.

Alfons Theophil Uhle, St. Paul

B.A. '37, University of Western Ontario;
M.A. '42, University of Toronto. Major: Ger-
man. Minor: French. Thesis: Wilhelm Busch
in neuer Beleuchtung. Major Adviser: Prof.
F. H. Wood.

Doctor of Philosophy in Surgery

Clarence Walton Lillehei, Minne-
apolis

B.S. with distinction '39, M.D. '42, M.S. '51,
University of Minnesota. Major: Surgery.
Minor: Physiology. Thesis: Experimental
Studies on the Etiology of Peptic Ulcer with
Particular Reference to the Autonomic Ner-
vous System. Major Adviser: Dr. O. H. Wang-
enstein.

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, Home Economics, and 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 sleeve. The trimming may be either black or may match the color of the hood edging.

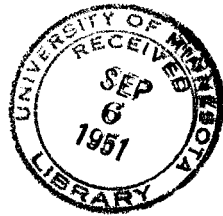
Caps, or mortarboards, too, have significance. The President of the University is the only one who may wear a velvet cap and a gold tassel.

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

For the Master's and Doctor's degree, 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 their appearance on the platform)

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, Home Economics, and Veterinary Medicine	maize
College of Education.....	light blue
School of Business Administration.....	drab
College of Medical Sciences.....	green
Graduate School	black



THE
UNIVERSITY OF MINNESOTA

Announces Its

August Commencement

1951

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, AUGUST 30

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 J. S. Jones, St. Paul

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

The Honorable Sheldon V. Wood, Minneapolis

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 hundredth birthday. While observing this milestone, 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 100,000 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 twenty-thousand 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 demonstration 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 because it is one of the greatest state universities in the nation, but 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 new Variety Club Heart Hospital to be dedicated 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 candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University of Minnesota from 7:00 to 7:30 p.m., they will hear the Flemish bells being played from Northrop Memorial Auditorium, Miss Roberta Bailey, B.A. '49, Instructor of Organ, second term, Summer Session, carillonneur. Admission to the August commencement exercises in the Auditorium is by guest card only. Guests will be seated as they arrive in the Auditorium and will remain seated until the colors are presented.

ORGAN RECITAL: Beginning at 7:30 p.m., Miss Roberta Bailey will play:

Allegro from Concerto No. 2	-	-	-	-	-	-	-	-	-	Vivaldi
Adagio from Concerto Grosso in D Minor	-	-	-	-	-	-	-	-	-	Vivaldi
Concerto in F Major	-	-	-	-	-	-	-	-	-	Handel

Larghetto

Allegro

Alla siciliana

Presto

Solemn Melody	-	-	-	-	-	-	-	-	-	Davies
Rigaudon	-	-	-	-	-	-	-	-	-	Mulet

PROCESSIONAL: Trumpet Tune - - - - Purcell

PROCESSIONAL: As candidates for degrees enter the Auditorium at 8:00 p.m. the curtain will be drawn. Seated on the platform, left to right, are: Dr. Edwin H. Lewis, Associate Professor of Business Administration, Marshal; Dr. Raymond G. Price, Professor of Education, Marshal; Dr. John G. Darley, Assistant Dean of the Graduate School; Mr. Stanley V. Kinyon, Assistant Dean of the Law School; Dr. Richard K. Gaumnitz, Assistant Dean of the School of Business Administration; Dr. Henry Schmitz, Dean of the College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Dr. Errett W. McDiarmid, Dean of the College of Science, Literature, and the Arts; Commander Wilmer E. Rawie, USN, Associate Professor of Naval Science; The Reverend John W. Knoble, Member of the Minnesota Council of Religion and Chaplain to Episcopal students; Mr. True E. Pettengill, Recorder; Mr. Thomas A. H. Teeter, Dean of the Summer Session; Dr. James Lewis Morrill, President of the University of Minnesota; Dr. Arthur S. Adams, President, American Council on Education; The Honorable George W. Lawson, Second Vice President, Board of Regents; The Honorable Sheldon V. Wood, Member, Board of Regents; Major Walter H. Grierson, USAF, Professor of Air Science and Tactics; Dr. Alfred L. Vaughan, Assistant Dean of the General College; Dr. Thomas L. Joseph, Assistant Dean of the Institute of Technology; Dr. Wesley E. Peik, Dean of the College of Education; Dr. Earl B. Fischer, Professor and Head of the Department of Pharmacognosy; Dr. Harold S. Diehl, Dean of the College of Medical Sciences; Mr. Bruce Lunkley, '51; Dr. Harry W. Kitts, Associate Professor of Agricultural Education, 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. Bruce Lunkley, soloist.

Order of Events

INVOCATION: The Reverend John W. Knoble, B.D., member of the Minnesota Council of Religion and Chaplain to Episcopal students.

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

COMMENCEMENT ADDRESS: "Private Virtue—Public Good," Arthur S. Adams, Sc.D., President, American Council on Education.

CONFERRING OF COMMISSIONS: Dean Thomas A. H. Teeter, Dean of the Summer Session, will introduce Commander Wilmer E. Rawie, USN, Associate Professor of Naval Science, who will present the candidates for commissions in the United States Air Force and the United States Navy. The commissions will be presented by President James Lewis Morrill; the oath of office will be administered by Major Walter H. Grierson, USAF, Professor of Air Science and Tactics.

CONFERRING OF DEGREES: Dean Thomas A. H. Teeter, B.S., 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 Alfred L. Vaughan, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts and University College; Assistant Dean Thomas L. Joseph, Ph.D., Institute of Technology; Dean Henry Schmitz, Ph.D., College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Dean Wesley E. Peik, 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; Assistant Dean Stanley V. Kinyon, LL.B., Law School; 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 James Lewis 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 James Lewis Morrill, who will confer the degrees.

"HAIL! MINNESOTA," the University's alma mater song: The audience and Mr. Bruce Lunkley, soloist.

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

RECESSIONAL: Miss Roberta Bailey, Organist

Tu es Petra - - - - - Mulet

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 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 AIR SCIENCE AND TACTICS

Second Lieutenant, USAFR

Charles L. Hunt, South St. Paul

Edwin V. Manchester, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Robert Kenneth Draving, Minneapolis

Ensign, SC, USN

Gary Cottrell Leighty, Glenville

Candidates for Graduation

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

GENERAL COLLEGE

Associate in Arts

Charles Arthur Botts, Dayton, Ohio
Douglas G. Cartwright, White Bear
Lake

Patricia Ann MacDonald, St. Paul
Richard Robert Tuott, St. Paul
Allen M. Winger, Newport

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Howard Stanley Adler, Minneapolis
Elna Katherine Ellinger, Minneapolis
Mary Priscilla Gallagher, Minneapolis

Dorothy Elizabeth Seawell, St. Paul
Clarence Alfred Sicard, Somerset,
Wis.

Bachelor of Arts

Richard Charles Amos, St. Paul
Milton Dennis Amundson, Minneapolis
John Earl Maynard Anderson, Minneapolis
Lawrence John Anderson, Minneapolis
Lorraine Margaret Andrews, Minneapolis
Louis Thomas Austin, Jr., Rochester
A. Russell Barton, Minneapolis
William Kirby Becker, Minneapolis
Nancy Anna Berg, Minneapolis
Bettye Ruth Bryan, New Orleans, La.,
CUM LAUDE
Robert Emmett Buckley, St. Paul,
CUM LAUDE
James Curtis Carlson, Mankato
Edward Joseph Carr, St. Paul
Virgil Marvin Carr, Jr., B.Th., Mason
City, Iowa
William James Christenson, Minneapolis
John Dennis Christison, St. Paul
Truman B. Clark, Jr., Ruthton
Herbert Roderick Daniels, Harmony
Eugenia DuToit, Chaska
Donald Richard Dwyer, A.L.A., Minneapolis
Nancy Lou Eldredge, St. Paul
Walter Henry Fink, Minneapolis
James Russell Frawley, Jr., Minneapolis
George Gardner, Minneapolis
Grace Marie Geisenhoff, St. Paul
Peter John Georgas, St. Louis Park
Beverly Gershgol, Duluth, CUM LAUDE
Kathleen Sharon Hall, Albert Lea
Grant W. Hallberg, A.A., Minneapolis
Sybil Beverly Halper, A.L.A., St. Paul
William Julius Hankel, Olivia
Harold Clifford Hansen, Sioux Falls,
S.D.
George Calvin Harrington, Windom
Palmer Ingwald Haugland, Hamar,
N.D.
Berton Warren Heaton, St. Paul
Charles Leighton Hunt, South St.
Paul
Virgil Henry Jeffries, Minneapolis

Donald Richard Johnson, Minneapolis, SUMMA CUM LAUDE
Lewis Allen Johnson, Windom, CUM
LAUDE
Robert Palmer Johnson, Minneapolis
Barbara Harris Jones, Duluth
Robert Daniel Kachelmyer, Mankato
Harry H. Katz, Little Falls
Allen Appleby Kaufmann, Minneapolis
Herbert Kay, Minneapolis, MAGNA
CUM LAUDE
John Henry Klopp, Minneapolis
Gerald Edwin Knatterud, Winona
Sarah Baillon Knox, St. Paul
Joseph Edward Krause, B.A., St. Paul
Theodore Stephen Krivoruchka, Bel-
field, N.D.
Hugh Louis Langevin, Minneapolis
Robert Edward Lee, Minneapolis
Barbara Marilyn Leef, Minneapolis
Philip Campbell Lenox, Minneapolis
Joyce Carol LeVi, Minneapolis, CUM
LAUDE
Herald Ernest Lewald, Minneapolis,
MAGNA CUM LAUDE
Robert Bryan Lloyd, Fulda
Marjorie Frances McClure, Minne-
apolis
Victor John Michaelson, Jr., St. Paul
LaVerne Mildred Milashius, St. Paul,
CUM LAUDE
Joanne Eve Molan, Minneapolis
Walter Frederick Mondale, Fairmont
Edwin Masanobu Nakasone, Wahia-
wa, Hawaii
Rolland George Nelson, Albert Lea,
CUM LAUDE
Kathleen Ann Nolan, St. Paul
Virginia Ann Olson, St. Paul
James Charles O'Neill, Cleveland
Heights, Ohio, MAGNA CUM LAUDE
Robert Campbell Palmer, Pipestone
Richard Francis Palumbo, St. Paul
Francis John Peirce, Staples
Gerald John Peterson, Minneapolis
Geraldine Ann Peterson, Stillwater
Wayne Turner Peterson, Albert Lea

George Roberts Petraborg, Minne-
apolis
Donald Gerald Provost, Minneapolis
Phyllis Catherine Prybelick, St. Paul
Robert Rhodes, Austin
Donna Roitburd, Milwaukee, Wis.
Victoria Anne Roseberg, Malmo
Richard C. Russell, Grand Rapids,
MAGNA CUM LAUDE
Edward Lamont Salovich, Minne-
apolis
Gerald Lee Simmons, Minneapolis
Donald Melvin Skordahl, Minneapolis
Richard Ryle Stephenson, Minne-
apolis, MAGNA CUM LAUDE

Marvin Gerald Strolberg, A.A., Min-
neapolis
Marcella Patricia Taylor, A.L.A.,
Minneapolis
Jean Elisabeth Tennant, St. Paul
Robert Thorvald Vaaler, Cannon
Falls, CUM LAUDE
Donna Lee Victor, Minneapolis
Joan Frances Wilkes, St. Paul
Edward Francis Witucki, Bowlus
Audre Helen Woebke, New Ulm
Robert George Wohlrahe, Springfield
Robert Ellsworth Zang, Jr., Minne-
apolis

Bachelor of Science

Leonard Francis Stasney, A.L.A., Minneapolis

Bachelor of Science in Library Science

Merle Stanley Adams, B.S. in Ed.,
Minneapolis
Marguerite F. Fukami, Chicago, Ill.,
CUM LAUDE
George Gardner, Minneapolis
Palmer Ingwald Haugland, Hamar,
N.D.
Ebba Ingaborg Johnson, Minneapolis
Frank August Schneider, B.A., Eliza-
beth, N.J.

UNIVERSITY COLLEGE

Bachelor of Arts

Palmer C. Siegel, A.A., Virginia

Bachelor of Science

James Lloyd Marvin, St. Paul
Richard Lee Schumeister, St. Paul
Anne Antelman Schwartz, Minne-
apolis, CUM LAUDE
Evelyn Ann Sexton, St. Paul
Clarence H. Wodtke, Minneapolis

INSTITUTE OF TECHNOLOGY

Bachelor of Science

John Walter Ferman, Minneapolis
Iwao Iwasaki, Tokyo, Japan, WITH
HIGH DISTINCTION
Lester Jens Nypan, Minneapolis, WITH
DISTINCTION

Bachelor of Aeronautical Engineering

James Arthur Gordon, St. Paul

Bachelor of Architecture

Joseph Michels, Shorewood, Wis.

Bachelor of Chemical Engineering

Harold John Andrews, Minneapolis
Frank Elvin Barnes, Rochester

Robert Marcel Guibert, St. Paul
Donald George Torgerson, Northfield

Bachelor of Civil Engineering

Donald Orrin Blager, Minneapolis
Gerald Franklin Dalquist, Randall

Richard Warren Rudstrom, Chisholm
Charles Francis Woodhouse, Pillager

Bachelor of Electrical Engineering

Frank Milton Adair, Jr., Rochester
Wesley Earl Berglund, St. Paul, WITH
HIGH DISTINCTION

William Wallace Downing, St. Paul
Frank William Fastner, St. Paul
George Willard Freeman, Minne-
apolis, WITH DISTINCTION

Robert Walton Griggs, Williams
Paul Emil Grund, Pitt
Benard John Hagen, Minneapolis
Melvin Warren Hamel, Minneapolis
John Hornsby, Jr., Anoka
Richard Harries Hosterman, Robbins-
dale

Kenneth John Iverson, St. Paul
Richard Edwin Johnson, St. Paul
Clifford Sylvester Kaiser, Stillwater

James F. Kampschoer, Stevens Point,
Wis.

Francis Melvin Kucera, Clearbrook
Edward Mahlon Lindberg, St. Paul
Clair Le Vine Love, Minneapolis
Roy Henry Mattson, Chisholm, WITH
DISTINCTION

James Lawrence Miller, St. Paul
Leo Charles Mollen, Minneapolis
Glenn Gustaf Charles Olson, Excelsior
Frank S. Paulson, Minneapolis
Harold Knute Rebne, Minneapolis
William Micheal Remily, Minneapolis
Donal Blaine Swenberg, Stillwater
Joseph John Vodinelich, Inver Grove
George Henry Wells, Jr., St. Paul

Bachelor of Industrial Engineering

Patrick Darrell Corcoran, Minneapolis

Marshall Sherman Nathanson, Minne-
apolis

Bachelor of Mechanical Engineering

Charles Ritter Hooper, St. Paul
Robert Thomas Johnson, St. Paul
Paul F. Lilienthal, Glenwood
Joseph Douglas Menth, Minneapolis
James Ray Mourning, Winona

Richard James Newman, Minneapolis
Thomas John Norkowski, Cloquet
Robert Emil Stoll, Mankato
John Sidney Tiedemann, Crookston,
WITH HIGH DISTINCTION

Bachelor of Metallurgical Engineering

John Walter Ferman, Minneapolis

Bachelor of Petroleum Engineering

George Borrill Judd, Morris

COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE

Bachelor of Science

Janice Engebretson, St. Paul, Home Economics	Joseph James Nix, Sauk Rapids, Agriculture
William Gustav Jacobson, Minneapolis, Agriculture	Robert John Schaefer, St. Cloud, Agriculture
Warren Rodney Johnson, Almelund, Agriculture	Allen Erwin Sorteberg, Anoka, Agriculture
Oliver William Kellogg, Baudette, Forestry	Elaine Mavis Trygestad, Lake Lillian, Home Economics
Opal Mae Mykleby, Eldred, Home Economics	Donald Eaton Woods, Mankato, Fish and Wildlife Management

COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE AND COLLEGE OF EDUCATION

Bachelor of Science

Carol Marum Rudstrom, Chisholm, Home Economics Education	Omer N. Swenson, Fosston, Agricultural Education
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COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE AND SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

Leonard Orlo Sorenson, LeRoy

COLLEGE OF EDUCATION

Bachelor of Science

- Joyce Claire Anderson, B.A., Long Lake
Ronald Edgar Barnes, Jr., Minneapolis
Helen Emilie Bertram, Blue Earth, WITH DISTINCTION
Ruben Eugene Bjorkman, Roseau
Charles Theodore Bosacker, A.A., Minneapolis
Sidney Albert Buchanan, Minneapolis
Joseph Myron Budish, Minneapolis
Lois Arline Butson, R.N., St. Paul*
Anne Veronica Carroll, Minneapolis
Robert Oscar Carter, Minneapolis
Theresa Rita Ciecmierowski, Minneapolis
Samuel Peter Cleveland, Minneapolis
Omer Wm. Connor, St. Paul
Gordon Richard Deppe, B.E.E., Minneapolis
Agnes Charlotte Enersen, Minneapolis, WITH DISTINCTION
Helen Dolores Foss, Prairie du Chien, Wis.
Sylvia Fraser, St. Paul
Cora Louise Gerhauser, A.A., Minneapolis
Roy Ira Godfrey, Jr., Minneapolis
Marie Laura Guenther, Waterloo, Iowa*
Donald Loren Hall, Minneapolis
Mary Elizabeth Hanses, Minneapolis*
Mary Jane Haraden, B.A., Chisholm
Gudrun Harding, Minneapolis
Harriette Fay Heiligman, Minneapolis
John Andrew Hill, Jr., Virginia
John Julius Jacobi, Minneapolis, WITH DISTINCTION
Henry Wallace Jensen, St. Paul
Milton Hans Jensen, Minneapolis
Marian Ruth Jeseritz, Wood Lake
Lillian Saarela King, Embarrass, WITH HIGH DISTINCTION
Anne Elizabeth Kivus, Mankato
Phyllis Ann Korbel, Pine City
Miriam Jean Krawetz, St. Paul
Amy Kathryn Lang, Aurora
Jacqueline Smith Leighty, Minot, N.D.
Jessie Wolf Lyman, B.S. in L.S., Hibbing
Edwin Valder Manchester, Jr., Minneapolis
Ronald George Masanz, South St. Paul
Lillian S. Mattson, Eveleth
William B. McCormack, B.S., Houston
Wilma Louise Meyer, Edina
Eileen Catherine Miller, St. Paul
Philomena Margaret Miller, Covina, Calif.
Helen Ruth Mills, Northfield
Edward John Nichols, Duluth
Kenji Oyanagi, B.A., St. Paul
Margaret A. Paulson, Minneapolis
Martha Mack Philipp, St. Paul
*Kathleen Whitford Phillips, Northfield, WITH DISTINCTION**
John William Reilly, St. Paul
Hazel Anna Roberts, Oak Terrace, WITH DISTINCTION*
David Michael Schmit, A.A., St. Cloud
Richard Arlen Schutz, Pine Island
Edith Lorena Shutt, Lockport, N.Y., WITH DISTINCTION*
Byron Conrad Snow, B.B.A., Minneapolis
June Elayne Stephan, Dayton, Ohio
Myrthe I. Talle, R.N., Minneapolis*
Kenneth Irvin Taylor, Springfield
Irene Larson Terras, St. Paul
Georgia M. Theodosen, Sioux Falls, S.D., WITH DISTINCTION
Gordon Vail, B.S., Farmington
Richard Allan Winer, A.A., St. Paul
Edith Elizabeth Wolfe, St. Paul, WITH DISTINCTION
Samuel M. Yagy, Minneapolis

* Nursing Education Curriculum.

Bachelor of Science in Library Science

Leona Alsaker, B.A., Benson
Anne Doris Haugaard, B.A.,
McClusky, N.D.

Doris Ginevra Taylor, B.A., M.A., St.
Paul
Flora B. Moore Woodard, B.A. with
honors, Boone, Iowa

Master of Education

John Eldon Berg, B.S., Truman
Bertil Merland Dahلمان, B.S., Min-
neapolis
Edwin Robert Danielsen, B.S., Brook-
ings, S.D.
Ellsworth Burch Erickson, A.A., B.S.,
North St. Paul
Robert Galati, B.S., Duluth
Roy Grijak, Duluth
Eleanor Helen Hansen, B.S., St. Paul
Martha Isabel Harris, B.S., Minne-
apolis
Fredrick Verne Hayen, B.A., Ocheye-
dan, Iowa
Frank Clarence Hedlund, B.S., Fergus
Falls
Carolyn Ann Hoglund, B.A., St. Croix
Falls, Wis.
James Douglas Holton, B.S., Willernie
Norma Irene Johnson, B.A., Fergus
Falls

Reuben John Johnson, B. of Mus. Ed.,
Minneapolis
Estelle C. Hagen Knudsen, B.S., Min-
neapolis
Rolf Sylvester Lund, B.A., Forest City,
Iowa
Hannah Christine Meyer, B.Ed., Fari-
bault
Stanford Ingram Nelson, B.A.,
Dawson
Nadine Olive Nice, B.S., Parsons, Kan.
Clarice Lucille Oren, B.S., Minne-
apolis
Joseph Anthony Rubatt, B.S., Mil-
waukee, Wis.
Vincent Joseph Viezbicke, B.Ed.,
Highland Park, Ill.
Peter Joseph Zanna, B.A., Minneapolis
Anthony Donald Zimmerhagl, B.S.,
La Crosse, Wis.

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Peter Baklaich, Minneapolis
Randall Fayette Bellows, Duluth
Roy Arne Bogen, Minneapolis
Geraldine Mae Bolton, Sioux City,
Iowa
Smith Asher Brownlie, Jr., Knoxville,
Tenn.
Waldo John Carlson, Minneapolis
Bruce Allan Clark, Hopkins
Edward Clair Erickson, B.A., Minne-
apolis
John Iver Hembre, Montevideo
Arthur Thomas Hooper, St. Paul
Francis Einar Koppala, Bovey
Patrick Leo Lawless, Minneapolis
Lowell Herbert Lee, Glenwood

Gary Cottrell Leighty, Glenville
Sam Joseph Mastro, Minneapolis
Eugene Travers May, Iron
Dennis Darrel McElfish, Massena,
Iowa
Earl Richard McGonagle, Royalton
Harry Conrad Osvold, Esko
Edwin Marvin Parnell, Stillwater
Marian Elizabeth Porger, Two Harbors
William Henry Riley, Minneapolis
John Richard Silseth, Minneapolis
Ashley Westmoreland, Jr., B.S.L.,
Minneapolis
Donald Warren Wray, B.M.E., Min-
neapolis

Bachelor of Science in Economics

Douglas Ellsworth Larson, Minneapolis

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

John Tal Bush, Minneapolis
Leonard Donald Gordon, Minneapolis
Norman Carl Johnson, Laurel, Mont.
Richard Jorgen Juul, Hutchinson
George Francis King, Minneapolis
Burton Dale Magnuson, Proctor

John Albin Malmo, Duluth
Lewis Carnes McGonagle, Royalton
Henry William Prottengeier, Jr.,
Swanville
Jerome John Smith, St. Paul

LAW SCHOOL

Bachelor of Science in Law

John P. Weber, Minneapolis

Roland T. Wivoda, Hibbing

Bachelor of Laws

Richard Alan Bodger, B.S.L., Minne-
apolis
Robert William Brehmer, B.S.L.,
Winona
Keith Mettlin Brownell, B.A., B.S.L.,
Ely
Thomas Stephen Carr, B.A. in Bus.
Adm., Minneapolis
Ronan Degnan, B.S.L., Lewiston
John Macbeth Girvin, B.S.L.,
Minneapolis
George Russel Johnson, B.S.L.,
Willmar
Thomas George Lovett, Jr., B.A.,
Madelia

Louis Allen McCarthy, B.A., Minne-
apolis
John Arthur McNiff, B.S.L., Minne-
apolis
Edward Irving Niles, B.E.E., Phoenix,
Ariz.
Roger Truman Sahr, B.A., Minne-
apolis
Robert Dale Schreiner, B.S.L., Two
Harbors
Norman A. Stansberry, B.S.L., A.A.,
Worthington
John August Trenti, B.S.L., Virginia
John P. Weber, Minneapolis
Roland T. Wivoda, Hibbing

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Oscar Donald Anderson, B.A., Buffalo,
Medicine
Helen Marie Beidleman, Racine, Wis.,
Public Health Nursing
Eleanor M. Bloch, Millbridge, Public
Health Nursing, WITH HIGH DIS-
TINCTION

Al Gene Barbara Calhoun, Harris,
Iowa, Public Health Nursing
Anne Mae James, Jackson, Occupa-
tional Therapy, WITH DISTINCTION
Rosemary Johnson, Minneapolis, Pub-
lic Health Nursing, WITH DISTINC-
TION

Vera Louise Kakac, Farmington, Public Health Nursing
Ruth Priscilla Kronhausen, Minneapolis, Occupational Therapy, WITH DISTINCTION

Joan Marcella Schweitzer, St. Paul, Occupational Therapy

Master of Hospital Administration

Frederic Chester LeRocker, Litt.B., New York, N.Y.

Howard Messick Winholtz, M.A., B.S., Omaha, Neb.

Master of Public Health

Marjory Edel Lewis, R.N., B.S., Burlington, Iowa

GRADUATE SCHOOL

Master of Arts

Chester Albert Anderson, White River, S.D.

B.S. '47, University of South Dakota. Field of Concentration: Physical Education.

Mary Babcock, St. Paul

B.S. '33, University of Minnesota. Field of Concentration: Social Work.

Mary Clare Barteck, Madrid, Neb.

B.S. '40, University of Nebraska. Field of Concentration: Educational Psychology.

Garold Leroy Bartness, St. Paul

B.E. '37, Superior State Teachers College; M.A. '45, University of Minnesota. Field of Concentration: Journalism.

Helen Barrett Baune, Minneapolis

B.A. '30, Rosary College. Field of Concentration: Curriculum and Instruction.

Charles Harlow Bell, Minneapolis

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

Walter Edward Belliveau, St. Paul

B.A. '28, Hamline University. Field of Concentration: Social Work.

Ray Wilford Bengtson, Minneapolis

B.A. '32, Gustavus Adolphus College. Field of Concentration: Educational Psychology.

Jean DeSales Bertram, Greensboro, N.C.

B.A. '42, Woman's College of the University of North Carolina. Major: Speech. Minor: Education. Thesis: Creative Playwriting: An Original Play for Children's Theatre—*Black Beard, the Pirate*.

Clinton Richard Boo, Jr., Pine City

B.A. '50, St. John's University. Major: English. Minor: Comparative Literature. Thesis: Hugh Kelly: His Theory of the Drama, as Expressed in *The Babler* Essays, and as Exemplified in His Dramatic Works: His Treatment of Sentimental and "Laughing" Comedy.

Ben Borken, Meadowlands

B.S. '32, University of Minnesota. Field of Concentration: Educational Administration.

Robert Moline Bowman, Duluth

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

Doris Charlene Bradford, Houston Tex.

B.A. '44, Dillard University. Field of Concentration: English.

Allan Alexander Brenny, Holdingford

B.S. '41, St. John's University. Field of Concentration: Educational Administration.

Richard Smith Bronniche, Cambridge

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

Oscar Duane Brudevold, Waseca

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

Erwin Buduls, Minneapolis

Graduate '49, Julius Maximilian University (Germany). Field of Concentration: Latin.

Victor Edward Burchill, Parshall, N.D.
B.A. '41, Valley City State Teachers College.
Field of Concentration: Educational Administration.

James Orrison Burgess, Regina, Saskatchewan, Canada
B.Sc. '50, McGill University. Field of Concentration: Physical Education.

Carroll Cecil Clayton, Des Moines, Iowa
B.C.S. '49, Drake University. Field of Concentration: Curriculum and Instruction.

Bernard Gary Cohen, Newark, N.J.
B.A. '50, Rutgers University. Field of Concentration: Speech.

Nancy Muriel Cookson, Manistique, Mich.
B.A. *magna cum laude* '50, University of Minnesota. Field of Concentration: American Studies.

Winston Ferris Crum, Oak Park, Ill.
B.A. '48, Carleton College. Major: Mathematics. Minor: History. Thesis: A Parallel Treatment of Certain Linear Operators with Regard to Their Basic Similarities.

Maude Rosalie Dedeaux, New Orleans, La.
B.A. '28, Xavier University. Field of Concentration: Curriculum and Instruction.

Charles Francis Dicken, Minneapolis
B.A. *magna cum laude* '50, University of Minnesota. Field of Concentration: Psychology.

Harold Eitel Doepke, Wayzata
B.E. '38, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction.

Raymond Harold Dolan, Jr., Hastings
B.S. with distinction '49, University of Minnesota. Field of Concentration: Education.

Hiram Max Drache, Meriden
B.A. '47, B.S. '48, Gustavus Adolphus College. Field of Concentration: History.

Arthur Stephenson Dunning, Jr., St. Paul
B.A. '49, Carleton College. Field of Concentration: English.

Gene Bowen Eason, Jackson, Miss.
B.S. '47, Mississippi State College. Field of Concentration: Industrial Education.

Andrew Rogness Een, Winnebago
B.S. '43, Mankato State Teachers College. Field of Concentration: Educational Administration.

Suzanne O. Ehrman, Milwaukee, Wis.
B.A. '47, Milwaukee-Downer College. Field of Concentration: Psychology.

William Frederick Elbrecht, Jr., Memphis, Tenn.
B.A. '49, University of Chicago. Field of Concentration: English.

Willis Ellington, Paeonian Springs, Va.
'42, Antioch College. Field of Concentration: Economics.

William John Engler, Forest Lake
B.A. '49, Gustavus Adolphus College. Field of Concentration: Educational Psychology.

Richard Andrew Falb, St. Paul
B.A. '48, University of Minnesota. Field of Concentration: Journalism.

Charles Orville Fisher, New Folden
B.S. '49, Bemidji State Teachers College. Field of Concentration: Educational Administration.

John Merlin Fisher, Hardin, Mont.
B.A. '47, Superior State Teachers College. Field of Concentration: Educational Administration.

Barry Neil Floyd, London, England
B.A. '49, Cambridge University. Field of Concentration: Geography.

Aloysius William Frank, Waite Park
B.E. '34, St. Cloud State Teachers College. Field of Concentration: Educational Administration.

Warren Bennett Franzen, Rockford, Ill.
B.A. '50, Wheaton College. Field of Concentration: Educational Administration.

Lenore Waters Fredsall, Selah, Wash.
B.S. '42, University of Minnesota. Field of Concentration: Education.

Alden Newell Godfrey, Boston, Mass.
B.S.J. '50, Boston University. Major: Journalism. Minor: History. Thesis: The Use of Communication Media by the Office of the Coordinator of Inter-American Affairs.

Mary Howe Goette, St. Paul
B.A. *cum laude* '45, University of Minnesota. Field of Concentration: Psychology.

- Morris Irving Goldman, Hillside, N.J.
B.A. '49, Syracuse University. Field of Concentration: English.
- Helen Mary Gould, Fairmont
B.B.A. '44, B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Donald Joseph Gray, Chicago, Ill.
Ph.B. '50, Loyola University. Field of Concentration: English.
- Severyn Joseph Grittner, Riverton
B.E. '37, St. Cloud State Teachers College. Field of Concentration: Educational Administration.
- Paul Herman Groenke, Elk River
B.S. '42, Concordia College. Field of Concentration: Curriculum and Instruction.
- Dorothy E. Hagman, Minneapolis
B.A. '50, University of Minnesota. Field of Concentration: English.
- Stella Leader Hay, Minneapolis
B.S. with high distinction '44, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Duane Milan Heaner, Minneapolis
B.A. '42, Gustavus Adolphus College. Major: Education. Minor: Zoology. Thesis: The Biology Teacher and Sex Education in the Public Schools of Minnesota.
- Beatrice Bouelle Heimerl, Tracy
B.E. '39, St. Cloud State Teachers College. Field of Concentration: Educational Psychology.
- George Clifford Helling, Rosemount
B.A. *summa cum laude* '48, Hamline University. Field of Concentration: Political Science.
- Arthur Dean Hendrickson, Eveleth
B.S. '48, University of Minnesota. Field of Concentration: Educational Administration.
- Mary Otis Hivnor, New York, N.Y.
B.A. '44, Bennington College. Major: Speech. Minor: Comparative Literature. Thesis: The Plays of Federico Garcia Lorca.
- Marlatte Edward Holtz, Waseca
B.S. '47, The Stout Institute. Field of Concentration: Industrial Education.
- Anne Ojala Hornung, Minneapolis
B.S. with distinction '48, University of Minnesota. Field of Concentration: History and Philosophy of Education.
- Frank Sinclair Hovey, St. Paul
B.S. with distinction '48, University of Minnesota. Field of Concentration: Educational Psychology.
- Clark Albert Ingli, River Falls, Wis.
B.S. '38, River Falls State Teachers College. Field of Concentration: Educational Administration.
- Kirsti Kaarina Jaantila, Helsinki, Finland
Cand.Phil. '49, University of Helsinki. Field of Concentration: Journalism.
- Marilyn Louise Jensen, Minneapolis
B.S. '46, University of Minnesota. Field of Concentration: Educational Psychology.
- LeRoy Elias Kallin, Helena, Mont.
B.S. '40, St. Cloud State Teachers College. Field of Concentration: Educational Administration.
- Theodore Edward Kellogg, Minneapolis
B.S. '47, University of Minnesota. Field of Concentration: Educational Psychology.
- Dan Kenneth Kerr, Minneapolis
B.S. with distinction '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Mildred Junis Kjome, Winona
B.S. '40, Winona State Teachers College. Field of Concentration: Curriculum and Instruction.
- George Woodrow Knox, Minneapolis
B.S. '48, University of Minnesota. Field of Concentration: Education.
- Eberhard W. Kronhausen, Minneapolis
B.S. '47, University of Minnesota. Field of Concentration: Psychology.
- Richard Arsene Laliberte, Minneapolis
B.A. '48, St. John's University. Field of Concentration: Educational Psychology.
- Francis Clarence Larson, Moose Lake
B.E. '36, Duluth State Teachers College. Field of Concentration: Educational Administration.
- Hope Halenbeck Lea, St. Paul
B.S. with high distinction '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Robert Adolph Lee, Rochester
B.S. '48, University of Minnesota. Field of
Concentration: Education.

Raymond Kenneth Levang, Minne-
apolis
B.A. '47, University of Minnesota. Field of
Concentration: Greek.

Joseph Junior Littrell, Wahoo, Neb.
B.A. '47, Peru State Teachers College. Field
of Concentration: Industrial Education.

Vernon LeRoy Lundgren, Duluth
B.S. '50, University of Minnesota. Field of
Concentration: Industrial Education.

Lyle Henry Mackie, Shell Lake, Wis.
B.S. '40, River Falls State Teachers College.
Field of Concentration: Educational Adminis-
tration.

Bert J. Marconett, Minneapolis
B.S. '50, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Leslie John Martin, London, England
B.A. '47, American University at Cairo. Field
of Concentration: International Relations.

Leonard Adolf Martinetto, Crosby
B.S. '48, St. Cloud State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Howard Francis McPartland, Waseca
B.A. '36, Gustavus Adolphus College. Field
of Concentration: Curriculum and Instruction.

William Frank Meinardus, Minne-
apolis
B.A. '47, University of Minnesota. Field of
Concentration: International Relations.

James Harley Michna, Beloit, Wis.
B.S. '38, University of Wisconsin. Field of
Concentration: Educational Administration.

Amelia Barbara Mikesch, St. Paul
B.S. '45, University of Minnesota. Field of
Concentration: History.

Mabel Alma Miller, Elmore
B.S. '39, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Glen LeRoy Morgan, St. James
B.S. with distinction '49, University of Minne-
sota. Field of Concentration: Educational Ad-
ministration.

Raymond Milo Morphew, Mankato
B.S. with honors '50, Mankato State Teachers
College. Field of Concentration: Curriculum
and Instruction.

Orville Theodore Murphy, Jr., Louis-
ville, Ky.
B.A. '50, University of Louisville. Field of
Concentration: American Studies.

Willard Jerry Murphy, Ely
B.E. '34, Oshkosh State Teachers College.
Field of Concentration: Educational Admin-
istration.

Roger Howard Myers, Minneapolis
B.A. '49, University of Minnesota. Field of
Concentration: Music.

Dean Charles Newell, Fontana, Calif.
B.A. '44, Grinnell College. Field of Concen-
tration: Curriculum and Instruction.

Fergus Vernon Nygaard, Waseca
B.A. '35, Augsburg College. Field of Concen-
tration: Educational Administration.

Kazuo Frederick Okano, Seattle,
Wash.
B.Aero.E. '49, University of Minnesota. Field
of Concentration: Statistics.

Curtis Grinnell Olson, Mora
B.S. '48, St. Cloud State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Donald Rumsey Pangborn, Sheboygan,
Wis.
B.S. '48, The Stout Institute. Field of Con-
centration: Industrial Education.

Warren Joseph Panushka, St. Paul
B.A. '41, Macalester College. Field of Concen-
tration: Curriculum and Instruction.

Conrad Jens Pedersen, Minneapolis
B.A. *cum laude* '50, University of Minnesota.
Field of Concentration: Geography.

Harold Raymond Peterson, Lloyd-
minster, Saskatchewan, Canada
B.E. '50, University of Saskatchewan. Field of
Concentration: Industrial Education.

Howard Gilbert Peterson, Jeffers
B.E. '36, Superior State Teachers College.
Field of Concentration: Educational Admin-
istration.

John Carl Peterson, Grand Forks,
N.D.

B.A. '35, Concordia College. Field of Concentration: Mathematics.

Attuthruthel Thomas Philip, Kottayah,
Travancore, India

B.A. '28, B.L. '31, University of Madras. Field of Concentration: Political Science.

Cecelia Ann Pierce, Virginia

B.S. '45, Duluth State Teachers College. Field of Concentration: Curriculum and Instruction.

Arthur Peter Piner, Detroit, Mich.

B.S. '50, The Stout Institute. Field of Concentration: Educational Psychology.

Gerald Cowles Preston, Minneapolis

B.A. *magna cum laude* '50, University of Minnesota. Field of Concentration: Mathematics.

Zenas Prust, Sheboygan, Wis.

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

Ralph Oliver Ramstad, Minneapolis

B.A. '48, B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Mary Ruth Reavey, Springfield, Mass.

B.S. '35, Westfield State Teachers College. Field of Concentration: English.

Melvin F. Salo, New York Mills

B.S. '36, Moorhead State Teachers College. Field of Concentration: Curriculum and Instruction.

Gilbert A. Schlegelmilch, Crosby

B.S. '41, St. Cloud State Teachers College. Field of Concentration: Industrial Education.

Robert George Schweppe, Morgan

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

William Gordon Scott, Minneapolis

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

Eugene Paul Sheehy, Nashua

B.A. *magna cum laude* '50, St. John's University. Major: English. Minor: Comparative Literature. Thesis: "The Playboy Riots": A History of the Disturbances Occasioned by the Production in Ireland, England, and America of John Willington Synge's *Playboy of the Western World*.

Virgil Ernest Shroyer, Ironton

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

Donald Elwyn Sikkink, Harmony

B.A. *cum laude* '49, University of Minnesota. Major: Speech. Minor: Educational Psychology. Thesis: An Experimental Study of the Relationship between Introversive-Extroversive (Minnesota T-S-E Scores) and Speech Improvement.

Edward Albert Silvis, Faribault

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

Charles John Simmer, St. Paul

B.A. '37, College of St. Thomas. Field of Concentration: Curriculum and Instruction.

Sister Mary Alban Schramm, Yankton,
S.D.

B.S. '50, College of St. Scholastica. Field of Concentration: Home Economics Education.

Sister Monica Simon, Duluth

B.A. '46, College of St. Scholastica. Field of Concentration: Home Economics Education.

Bernice Slaughter, Jeffersonville, Ind.

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

Lawrence Stanley Smith, Winnipeg,
Manitoba, Canada

B.A. '37, University of Manitoba. Field of Concentration: Industrial Education.

Ted Ray Spivey, Swainsboro, Ga.

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

Robert Henry Stachlin, Waseca

B.S. '48, Winona State Teachers College. Major: Library Science. Minor: Philosophy. Thesis: A History of Printing in Minneapolis and St. Paul, Minnesota, with a Bibliography of Imprints—1866-1876.

John E. Stapleton, Virginia

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

David Berthald Steinbring, Eau Claire,
Wis.

B.S. '37, Eau Claire State Teachers College. Field of Concentration: Educational Administration.

Elizabeth Ann Stephens, Minneapolis

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

Dorothy Ellen Sutter, Dubuque, Iowa
B.A. '33, University of Dubuque. Field of
Concentration: Curriculum and Instruction.

Nancy Belle Swan, Delavan, Wis.
B.A. '48, Vassar College. Field of Concen-
tration: Art.

Roy Arthur Swanson, St. Paul
B.A. *magna cum laude* '48, B.S. '49, Univer-
sity of Minnesota. Field of Concentration:
Latin.

Albert B. Szabo, St. Paul
B.A. '50, Hamline University. Field of Con-
centration: Speech.

Robert Lee Thaves, Los Angeles,
Calif.
B.A. '49, University of Minnesota. Field of
Concentration: Psychology.

Sterling E. Thompson, Lake Mills,
Iowa
B.A. '50, Luther College. Field of Concentra-
tion: Curriculum and Instruction.

Ralph Louis Tigue, Duluth
B.S. '40, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Emil John Vlasak, Yankton, S.D.
B.S. '42, Northern State Teachers College.
Field of Concentration: Educational Adminis-
tration.

Jerome Ogdon Webster, St. Clair
B.A. '40, Gustavus Adolphus College. Field
of Concentration: Educational Administration.

Lawrence C. Wehmeyer, Storm Lake,
Iowa
B.A. '48, Buena Vista College. Field of Con-
centration: Educational Administration.

Gerald Otto Wendt, Morgan
B.B.A. '48, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Herman Karl Wentzel, Concordia,
Mo.
B.S. '49, Concordia College. Field of Concen-
tration: Educational Psychology.

J. Waldemar Wicklund, Hopkins
B.S. '41, Bemidji State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Leo Edwin Wiljamaa, Tower
B.S. '34, B.S. '39, University of Minnesota.
Field of Concentration: Educational Psy-
chology.

Emil Fredrick Wilken, Elmore
B.E. '39, St. Cloud State Teachers College.
Field of Concentration: Educational Adminis-
tration.

Bruce Gilman Wilson, Minneapolis
B.S. '50, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Naomi Johanne Wilson, Chadron,
Neb.
B.A. '48, Nebraska State Teachers College
(Chadron). Field of Concentration: Curricu-
lum and Instruction.

Master of Arts in Public Administration

Harry Bernat, St. Paul
B.B.A. with distinction '49, B.E.E. with dis-
tinction '49, University of Minnesota. Field
of Concentration: Public Administration.

Mark Wayne Hedlund, Minneapolis
B.A. '50, University of Minnesota. Field of
Concentration: Public Administration.

Theodore Harvard Hinderaker,
Hendricks
B.A. '50, St. Olaf College. Field of Concen-
tration: Public Administration.

Frank Raymond Palmer, St. Louis
Park
B.S. '40, University of Minnesota. Field of
Concentration: Public Administration.

Jack Tadashi Tashiro, Gresham, Ore.
B.A. '50, University of Oregon. Field of Con-
centration: Public Administration.

Master of Business Administration

Alfred Lyle Day, Philipsburg, Mont.
B.B.A. '49, Montana State University. Field
of Concentration: Business Administration.

Master of Fine Arts

Orval Leroy Dillingham, Minneapolis
B.A. '49, University of Minnesota. Major:
Art (Painting). Minor: Art (History). Thesis:
The Creation of Paintings and Drawings and
an Analysis of the Creative Process.

Master of Science

Donald Edwin Cadwell, Mora
B.Met.E. with distinction '48, University of
Minnesota. Field of Concentration: Metal-
lurgy.

John Harding Dolloff, Torrington,
Conn.
B.S. '50, Yale University. Major: Geology.
Minor: Petroleum Engineering. Thesis: Upper
Cretaceous Stratigraphy in Miller County,
Arkansas.

Robert Kenneth Draving, Minne-
apolis
B.S. '50, University of Minnesota. Field of
Concentration: Mathematics and Mechanics.

Jewell Wendell Fortenberry, Tyler-
town, Miss.
B.S. *cum laude* '49, Alcorn Agricultural and
Mechanical College. Major: Agricultural Econ-
omics. Minor: Sociology. Thesis: Effect of
Mechanized Power on Small Farms in the
Hill Region of Mississippi.

Richard J. Goldstein, New York, N.Y.
B.M.E. '48, Cornell University; M.S. in
Mech.E. '50, University of Minnesota. Field
of Concentration: Physics.

Theodore Anthony Grahek, Ely
B.S. '49, University of Minnesota. Major: Plant
Pathology. Minor: Plant Physiology. Thesis:
Studies on the Relation of Fungi to the De-
terioration of Stored Wheat.

Donald Leroy Hansen, Tulsa, Okla.
B. of Geol. '50, University of Tulsa. Major:
Geology. Minor: Petroleum Engineering.
Thesis: Distribution of Ostracoda in the De-
corah Shale Formation at St. Paul, Minnesota.

Nathan Smith Haw, St. Paul
B.B.A. '39, University of Minnesota. Field of
Concentration: Agricultural Economics.

Robert Burdick Henrickson, Cornell,
Wis.
B.S. '49, University of Wisconsin. Major:
Analytical Chemistry. Minor: Physical Chem-
istry. Thesis: The Separation of Trace Amounts
of Molybdenum.

Max Kenyon Hinds, Falls Church, Va.
B.S. '41, University of Minnesota. Major:
Agricultural Economics. Minor: Economics.
Thesis: An Analysis of Dairy Marketing in
Steele County, Minnesota.

Williams Inglis Hugh, Cloverdale,
British Columbia, Canada
B.S.A. '49, University of British Columbia.
Field of Concentration: Animal Husbandry.

James Alexander Johnston, Houston,
Tex.
B.A. '48, University of Texas. Major: Botany.
Minor: Agricultural Biochemistry. Thesis:
Hydrogenase Activity of Resting Cells of
Rhodospirillum rubrum Adapted to the Photo-
production of Hydrogen.

Mary Barbara Killen, Minneapolis
B.S. with distinction '49, University of Minne-
sota. Major: Agricultural Economics. Minor:
Economics. Thesis: Consumer Use of Non-Fat
Dry Milk Solids in St. Paul.

Elda Jean Martin, Butte, Mont.
B.A. '49, Montana State University. Field of
Concentration: Bacteriology.

Mary Jeanne Ochs, Minneapolis
B.A. '47, College of St. Catherine. Major:
Physiological Chemistry. Minor: Bacteriology.
Thesis: Comparison of Heparin and Hyalu-
ronidase Inhibitor Concentrations in Blood
Serum.

John Malcolm Olmsted, Hopkins
B.A. '41, Ottawa University. Major: Botany.
Minor: Bacteriology. Thesis: The Influence
of Temperature on the Somatic Expression of
a Mutant Gene (d-1) in Some Seedling Or-
gans of Maize.

Lorraine Robell, Brooklyn, N.Y.
B.A. with honors '50, Vassar College. Field
of Concentration: Organic Chemistry.

Marvin Ernest Seale, Edmonton,
Alberta, Canada
B.Sc. '48, University of Alberta. Field of Con-
centration: Animal Husbandry.

Richard James Stadtherr, Gibbon
B.S. '49, University of Minnesota. Major: Horticulture. Minor: Plant Physiology. Thesis: Detection of the Beginning of Growth Activity in the Latham Raspberry as Measured by Rate of Catalase Activity in the Buds.

James Daniel Tupac, Chisholm
B.Physic with high distinction '50, University of Minnesota. Field of Concentration: Mathematics.

James Andrew Tyvand, Racine, Wis.
B.S. '50, University of Minnesota. Field of Concentration: Agricultural Economics.

Augustus Thomas Wilson, The Citadel, Charleston, S.C.
B.S. '31, New York University. Field of Concentration: Agricultural Economics.

Master of Science in Anesthesiology

John Stanley Hattox, Winona, Miss.
M.D. '45, University of Tennessee. Major: Anesthesiology. Minor: Physiology. Thesis: A New Method for the Analysis of Blood Nitrous Oxide and Its Application in a Study of Anesthesia with this Agent.

Master of Science in Chemical Engineering

Harold Carl Lofgren, Minneapolis
B.Ch.E. with high distinction '48, University of Minnesota. Major: Chemical Engineering. Minor: Physics. Thesis: The Formation of Drops from Nozzles in Liquid-Liquid Systems.

Master of Science in Civil Engineering

Guillermo Enrique Borja, Ahuachapán, El Salvador, Central America
B.C.E. '49, University of Minnesota. Major: Civil Engineering (Structural Engineering). Minor: Civil Engineering (Hydraulics and Fluid Mechanics). Thesis: A Rectangular Plate Bent by a Transverse Couple.

Ted Frank Jacobs, Windsor, Ontario, Canada
B.S. in C.E. '50, Detroit Institute of Technology. Major: Civil Engineering. Minor: Industrial Engineering. Thesis: An Investigation of Secondary Stresses in a Pinned and Riveted Parker Truss.

Walter Alfred Weers, Minneapolis
B.C.E. '49, University of Minnesota. Field of Concentration: Civil Engineering.

James Ewart Whenham, Edmonton, Alberta, Canada
B.Arch. '50, University of Manitoba. Major: Civil Engineering. Minor: Mechanical Engineering. Thesis: A Comparative Study of Concrete Domes.

Master of Science in Dentistry

Melvin Palmer Baken, Jr., Minneapolis
D.D.S. '46, University of Minnesota. Major: Dentistry. Minor: Physiological Hygiene. Thesis: A Study of the Relationship of Various Psychogenic and Other Factors to Dental Disease.

Bernard Draper Stalnaker, Jr., Pittsburgh, Pa.
B.S. '45, D.D.S. '46, University of Pittsburgh. Major: Dentistry. Minor: Physiology. Thesis: The Effect of Jaw-Opening Exercise on the "Rest" Position of the Mandible.

Master of Science in Dermatology and Syphilology

John Benzet Watson, Rochester
B.A. '42, M.D. '45, State University of Iowa.
Major: Dermatology and Syphilology. Minor:
Histopathology. Thesis: Studies on the Cells
Obtained from Artificially Produced Blisters
in Patients with Acute Disseminated Lupus
Erythematosus.

Master of Science in Electrical Engineering

Joseph Herbert Apelbaum, Springfield, Mass.

B.S. in E.E. '49, Massachusetts Institute of Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of a Phantastron Linear Delay Circuit and Its Application to the Measurement of Phase Shift.

Edward J. Casey, Minneapolis

B.E.E. with high distinction '44, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Arbitrary Function Generator.

David L. Markusen, Minneapolis

B.E.E. '41, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Lateral Flight Path Control.

James Willis Wilson, Rushmore

B.E.E. with distinction '49, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Self-Excitation of Induction Motors with Series Line Capacitors.

Master of Science in Mechanical Engineering

John Wallace Andeen, Minneapolis

B.M.E. with distinction '36, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Immediate Effect of Oil on Tube Metal Temperature During the Process of Heat Transfer to the Water Containing the Oil.

Willis Glenn Anderson, Minneapolis

B.M.E. with distinction '48, University of Minnesota. Field of Concentration: Mechanical Engineering.

Joseph Bene, Vancouver, British Columbia, Canada

B.A.Sc. '48, University of British Columbia. Field of Concentration: Mechanical Engineering.

Thomas Joseph Hayes, Arlington, Va.

B.M.E. with distinction '50, University of Minnesota. Major: Mechanical Engineering. Minor: Industrial Engineering. Thesis: An Analysis of the Factors Affecting Temperature Distribution with Floor Panel Heating.

Richard James Howe, Minneapolis

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

Fuat Ozkan, Turkey

B.M.E. '50, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics and Mechanics. Thesis: Dynamics of a Cam Follower.

Robert Young Wong, Minneapolis

B.M.E. with distinction '49, University of Minnesota. Major: Mechanical Engineering. Minor: Metallography. Thesis: A Study of the Effect that Low Frequency Pulsations Have on Pressure Drop Coefficients for a Square-Edged Orifice.

Master of Science in Radiology

Harry Zachary Mellins, Minneapolis
B.A. '41, Columbia University; M.D. '44,
Long Island College of Medicine. Major:
Radiology. Minor: Pathology. Thesis: The
Vertebral Venous Circulation; a Roentgeno-
logic Study.

Master of Science in Surgery

Arthur Wheaton Ide, Jr., St. Paul
B.A. '39, Dartmouth College; M.D. '43, Uni-
versity of Michigan. Major: Surgery. Minor:
Pathology. Thesis: Venography of the Deep
Veins of the Thigh with a Discussion of
Surgical Applications.

Einer Millard Monson, Robbinsdale
M.D. '35, University of Minnesota. Major:
Surgery. Minor: Pathology. Thesis: Diagnosis
and Treatment of Fat Embolism.

Master of Social Work

Ruth Bridges Nyquist, Minneapolis
B.A. *cum laude* '49, University of Minnesota.
Field of Concentration: Social Work.

Doctor of Philosophy

Myron Robert Buchdahl, Mechanic-
ville, N.Y.

B.S. '44, Union College; M.S. '46, University
of Michigan. Major: Pharmaceutical Chemis-
try. Minor: Physiological Chemistry. Thesis:
The Synthesis of Some Substituted Piperidine
Compounds from Dipicolinic Acid. Major
Adviser: Prof. T. O. Soine.

Keith Maurice Engar, Salt Lake City,
Utah

B.A. '47, M.A. '48, University of Utah. Major:
Speech. Minor: English. Thesis: Political
Satire in Selected American Plays of the
Twentieth Century. Major Adviser: Prof.
D. W. Thompson.

Carl William Engelhart, Minne-
apolis

B.A. '39, University of Chicago; M.A. '43,
University of Minnesota. Major: English.
Minor: History. Thesis: The Reaction against
Industrialism in American Literature, 1800-
1860. Major Adviser: Prof. Tremaine
McDowell.

Ralph LeRoy Erickson, Flandreau,
S.D.

B.A. *cum laude* '47, Miami University; M.S.
'48, Michigan State College. Major: Geology.
Minors: Geology and Petroleum Engineering.
Thesis: Stratigraphy and Petrology of the
Tascotal Mesa Quadrangle, Texas. Major Ad-
viser: Prof. S. S. Goldich.

Gottfried Christian Graf, Blacksburg,
Va.

B.S. '34, Michigan State College; M.S. '40,
University of Minnesota. Major: Dairy Hus-
bandry. Minors: Physiology and Physiological
Chemistry. Thesis: The Effect of Stress Con-
ditions on the Cardio-Respiratory Processes
and the Blood Composition of Dairy Cattle.
Major Adviser: Prof. W. E. Petersen.

Myron Ellis Heusinkveld, Hull, Iowa
B.S. in E.E. '42, Iowa State College; M.S.
'49, University of Minnesota. Major: Physics.
Minor: Mathematics. Thesis: The Experi-
mental Determination of the Existence of the
Inverted $P_{3/2}$ - $P_{1/2}$ Doublet in Li^{5+} by Means
of Double Scattering of Protons by Helium.
Major Adviser: Prof. J. H. Williams.

Howard Emil Holmquist, Chicago, Ill.

B.S. with highest distinction '47, Northwestern University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Studies in the Introduction of Isoprene Units into Some Organic Compounds. Major Adviser: Prof. W. E. Parham.

Robert Farnsworth Holt, Sr., St. Paul
B.A. '43, Macalester College; M.S. '49, University of Minnesota. Major: Soils. Minor: Chemistry. Thesis: Properties and Interrelationships of Wooded Soils in Northern Minnesota. Major Adviser: Prof. P. R. McMiller.

Ching Heng Hsi, Shanghai, China

B.S.A. '48, St. John's University; M.S.A. '49, University of Georgia. Major: Plant Genetics. Minor: Plant Pathology. Thesis: The Relationship of Various Agronomic and Malting Characters of Barley as Studied in Ten Crosses Having Mars as a Common Parent and in Two Generations. Major Adviser: Prof. J. W. Lambert.

Wallace Henry Ito, Chicago, Ill.

B.S.M.E. '44, Illinois Institute of Technology. Major: Mathematics. Minor: Mathematics and Mechanics. Thesis: On Conjugate Functions. Major Adviser: Prof. S. E. Warschawski.

Henry Hollingshead Morgan, Minneapolis

B.A. '41, Harvard College; M.S. '48, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: An Analysis of Certain Structured and Unstructured Test Results of Achieving and Nonachieving High Ability College Students. Major Advisers: Profs. H. P. Longstaff and Ephraim Rosen.

Thomas Page, Lawrence, Kan.

B.A. '34, University of Kansas; M.A. in Pub. Adm. '48, University of Minnesota. Major: Political Science. Minor: Economics. Thesis: Legislative Apportionment in Kansas. Major Adviser: Prof. L. M. Short.

Walter Herman Peters, St. Paul

S.T.L. '38, Angelicum (Rome); S.S.B. '39, Biblicum Institute (Rome); M.A. '46, University of Minnesota. Major: German. Minor: Latin. Thesis: The Hecastus of Macropedius. Major Advisers: Profs. L. G. Downs and F. L. Pfeiffer.

Hjalmar Rosen, Excelsior

B.A. '43, M.A. '44, University of Minnesota. Major: Psychology. Minors: Business Administration and Educational Psychology. Thesis: Job Attitudes among Union Factory Workers. Major Adviser: Prof. D. C. Paterson.

Paul Steward Schmidt, Minneapolis

B.A. '36, State University of Iowa; M.A. '38, University of Chicago. Major: English. Minor: Philosophy. Thesis: Samuel Clemens's Technique as a Humorist, 1857-1872. Major Adviser: Prof. H. N. Smith.

Fred Elof Shubeck, Centerville, S.D.

B.S. '40, South Dakota State College of Agriculture and Mechanic Arts. Major: Soils. Minor: Agronomy. Thesis: The Effect of Fertilizer Rates, Ratios and Plant Populations on Corn Yields. Major Adviser: Prof. A. C. Caldwell.

Glenn Edward Tyler, St. Paul

B.S. with distinction '32, M.A. '47, University of Minnesota. Major: History. Minor: Anthropology. Thesis: The Influence of Calvinism on the Development of Early Modern Science in England and America. Major Adviser: Prof. A. C. Krey.

Andrew Vanvig, Sentinel Butte, N.D.

B.S. '42, North Dakota Agricultural College; M.S. '43, Cornell University. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Study of Farm Organization with Special Reference to Cropping Systems on the Heavy Soils Area of the Red River Valley. Major Adviser: Prof. G. A. Pond.

Wilfred Hamlin Ward, Cleveland, Ohio

B.A. '37, Oberlin College. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Electrokinetics of Cellulose-Alcohol Systems: The Effect of Salts. Major Adviser: Prof. D. R. Briggs.

Donald Homer Yardley, Kashabowie, Ontario, Canada

B.Sc. (Honours) '41, M.Sc. '47, Queens University. Major: Geology. Minor: Metallurgy. Thesis: The Geology of the Northern Part of the Chalco Lake Area Northwest Territories, Canada. Major Adviser: Prof. G. M. Schwartz.

"M"



THE
UNIVERSITY OF MINNESOTA

Announces Its

December Commencement

1951

NORTHROP MEMORIAL AUDITORIUM
THURSDAY EVENING, DECEMBER 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 J. S. Jones, St. Paul

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

The Honorable Sheldon V. Wood, Minneapolis

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

Throughout the University's hundred-year history, its primary function has been the education of the young men and women of the state. The University is proud of its more than 100,000 graduates who have given to their communities the highest type of professional competence and civic leadership.

Currently, 2,300 full- and part-time faculty members, including men and women of international renown, are engaged in preparing some 18,600 students for careers in the professions, in business and industry, and in agriculture.

But the University is not dedicated solely to producing specialists. Its College of Science, Literature, and the Arts, University College, and General College aim at giving a broad, humane, and liberal education.

A second major function of the University of Minnesota is research. Today, University research is being carried on in laboratories on the three campuses, at the agricultural experiment stations in Crookston, Grand Rapids, Duluth, Waseca, and Morris, at the Rosemount Research Center, the biological station at Itasca, and the forestry station at Cloquet.

At all of these centers and at University Hospitals, the Mayo Foundation in Rochester, and the Hormel Institute in Austin, University scientists are seeking answers to such questions as: What causes prejudice in children? What goes on inside the atom? How can we breed borer-resistant corn? What can we learn about cancer in experimental animals and, eventually, in man? In past years millions of dollars have been brought into the state through University research in such fields as taconite, disease-resistant wheat, and Minnesota blue cheese.

The University Hospitals are centers for treatment as well as research. From all over the state, people—many of them with unusual or obscure diseases—are referred by their family doctors to the University medical center.

Last year 11,000 patients spent 145,000 days at University Hospitals and 100,000 visits were made to the outpatient clinic. Besides administering medical care to residents of the state, the Hospitals cooperate with the College of Medical Sciences to train doctors, nurses, and medical technicians. Most recent addition to the University medical center is the Variety Club Heart Hospital, gift of generous people in show business. It is the first hospital in the United States devoted exclusively to the study and treatment of heart diseases. The Mayo Memorial Medical Center now being erected provides a needed extension to the University's medical facilities made possible by warm friends of the University and a generous state legislature.

Not only do people come to the University, but the University goes out to the people. County agricultural agents translate agricultural research into concrete terms by showing farmers how to use improved methods and new crop varieties developed by University and other scientists. Through its Concert and Lecture Service and its Theatre-on-Tour the University each year brings good music, plays, and lively discussion to almost 2,000,000 people all over the northwest. KUOM, the University's nationally honored radio station, reaches more than half the population of the state with adult radio fare.

It has been the University's earnest endeavor to make the whole state its campus, and to meet the people of Minnesota in a two-way flow of talent and services, ideas and equipment. The University sincerely seeks the warm and friendly support of all the people of Minnesota who come in such large and welcome numbers to visit the campuses of their University.

Order of Events

THE 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 of Minnesota from 7:00 to 7:30 p.m., they will hear the Flemish bells being played from Northrop Memorial Auditorium, Mr. Edward Berryman, Instructor in Music, carillonneur. Admission to the Auditorium is by guest card only. Guests will be seated as they arrive in the Auditorium and will remain seated until the colors are presented.

ORGAN RECITAL: Beginning at 7:30 p.m., Mr. Arthur B. Jennings, Associate Professor of Music and University Organist, will play:

Advent Chorale, "Sleepers wake, a voice is calling" - - - -	Nicolai
Chorale Prelude, "Wachet auf, ruft uns die Stimme" - - - -	Bach
Chorale Prelude, "In dulci jubilo" - - - -	Bach
Pastoral Symphony from The Messiah - - - -	Handel
Variations on a Noel - - - -	Dupré

PROCESSIONAL: Improvisation on Academic Airs

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. Richard K. Gaumnitz, Assistant Dean of the School of Business Administration, Marshal; Dr. Ray G. Price, Professor of Education, Marshal; Dr. Harold S. Diehl, Dean of the College of Medical Sciences; Dr. Earl B. Fischer, Professor of Pharmacognosy, College of Pharmacy; Dr. Marcia Edwards, Assistant Dean of the College of Education; Dr. Richard T. Arnold, Assistant to the Dean, Institute of Technology; Dr. Alfred L. Vaughan, Assistant Dean of the General College; Lieutenant Colonel August R. Wood, USA, Assistant Professor of Military Science and Tactics; the Reverend Luther Anderson, member of the Minnesota Council of Religion and adviser to Synodical Conference Lutheran students at the University; the Honorable E. E. Novak, Member, Board of Regents; Dr. Malcolm M. Willey, Vice President, Academic Administration; Mr. True E. Pettengill, Recorder; Mrs. Margaret Culkin Banning; Dr. James Lewis Morrill, President of the University; The Honorable George W. Lawson, Second Vice President, Board of Regents; The Honorable J. S. Jones, Member, Board of Regents; Mr. William T. Middlebrook, Vice President, Business Administration; Commander Wilmer E. Rawie, USN, Associate Professor of Naval Science; Lieutenant Colonel Helmer T. Aasheim, USAF, Assistant Professor of Air Science and Tactics; Mr. Julius M. Nolte, Dean of University Extension; Dr. Errett W. McDiarmid, Dean of the College of Science, Literature, and the Arts; Dr. Henry Schmitz, Dean of the College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Dr. Richard L. Kozelka, Dean of the School of Business Administration; Mr. Stanley V. Kinyon, Assistant Dean of the Law School; Dr. Theodore C. Blegen, Dean of the Graduate School; Mr. Roy A. Schuessler, Associate Professor of Music; Dr. Edward B. Stanford, Acting 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. Roy A. Schuessler, Associate Professor of Music, soloist.

INVOCATION: The Reverend Luther Anderson, member of the Minnesota Council of Religion and adviser to Synodical Conference Lutheran students at the University.

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

COMMENCEMENT ADDRESS: "New Directions," Mrs. Margaret Culkin Banning, distinguished Minnesota author.

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; Lieutenant Colonel Helmer T. Aasheim, USAF, Assistant Professor of Air Science and Tactics; and Commander Wilmer E. Rawie, USN, Associate Professor of Naval Science. 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 degrees in their respective colleges. These, in order of their introduction, are: Dean Julius M. Nolte, 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 and representing University College; Assistant to the Dean Richard T. Arnold, Ph.D., Institute of Technology; Dean Henry Schmitz, Ph.D., College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Assistant Dean Marcia Edwards, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Professor Earl B. Fischer, Ph.D., College of Pharmacy; Assistant Dean Stanley V. Kinyon, LL.B., Law School; Dean Harold S. Diehl, M.D., College of Medical Sciences; and Dean Theodore C. Blegen, Ph.D., Graduate School. All degrees will be conferred by President Morrill. Immediately afterward, 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 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!	Like the stream that bends to sea,
Hail to thee, our college dear!	Like the pine that seeks the blue,
Thy light shall ever be	Minnesota, still for thee
A beacon bright and clear;	Thy sons are strong and true,
Thy sons and daughters true	From thy woods and waters fair,
Will proclaim thee near and far;	From thy prairies waving far,
They will guard thy fame	At thy call they throng
And adore thy name;	With their shout and song,
Thou shalt be their Northern Star.	Hailing thee their Northern Star.

RECESSIONAL: Mr. Arthur B. Jennings, University Organist

Electa ut Sol - - - - - Dallier

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, Medical Service Corps, USAR

John Tal Bush, Minneapolis

Second Lieutenant, Transportation Corps, USAR

Garland Max Spriggs, Minneapolis James V. Sundberg, Minneapolis

DEPARTMENT OF AIR SCIENCE AND TACTICS

Second Lieutenant, USAF Reserve

Loren M. Dekko, Gary	William J. Gross, Jr., Minneapolis
Edward J. Ehlenz, St. Paul	Mark S. Jones, Albert Lea
Edward L. Falk, Minneapolis	Marvin G. Ouren, Jr., Hanska

DEPARTMENT OF NAVAL SCIENCE

Ensign, Line, USN

Charles William Arnason, St. Paul Donald Keith Proctor, St. Paul

Candidates for Graduation

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

GENERAL EXTENSION DIVISION

Business Certificates

Evelyn R. Dahlstrom, Minneapolis	Thomas Leo Jordan, St. Paul
Sterling M. Davis, Minneapolis	Raymond A. Sundby, Minneapolis

Engineering Certificate

Heng I. Lee, Minneapolis Dora Mae Sorensen, St. Paul

GENERAL COLLEGE

Associate in Arts

Janis Sharon Glickman, Minneapolis
Gerald Parks Greer, Minneapolis
Norman Roy Halvorson, Gully
Joyce Marilyn Hanifan, Minneapolis
Charles Brainerd Hopkins, Minneapolis
Vincent C. Jenny, Jr., St. Paul
James Robert Krentz, St. Paul

Betsy Dee Rand, Minneapolis
William Joseph Riepe, St. Paul
Samuel Rosenthal, St. Paul
Ronald David Smart, Minneapolis
Howard Ador Swenson, Minneapolis
William Norman Tangen, Minneapolis
John Wheaton Williams, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

James Richard Flis, West St. Paul
Joan Cecile Foldesi, St. Paul
Mary Ellen Franklin, Minneapolis
Jeanne Claire Hilgedick, St. Paul
Joyce Pearl Krishef, Minneapolis

Lois Anne Louise O'Donnell, St. Paul
Bernelda Theresa Roering, Melrose
Mariam Alice Styx, Kenosha, Wis.
Calvin Keith Wojahn, St. Paul

Bachelor of Arts

Jack Herbert Anderson, Hibbing
Manfred O. Aws, Jr., Madison
Hortense Anne Beaupre, Minneapolis
John Woodrow Borden, A.L.A., St. Paul
Ralph David Broten, Minneapolis
Clarence John Carlson, Duluth
Betty M. Clint, St. Paul
Harold Germo Coe, Des Plaines, Ill.
Romana Ruth Comartin, Rochester
Carol Rose Cooperman, Minneapolis
Caroline Louise Covell, Minneapolis
Paul Francis Delaney, Minneapolis
Nancy Louise Evans, Minneapolis
Richard Morrey Federman, Minneapolis
Patricia Ann Garrett, Minneapolis
Margaret Blair Gracie, Bovey
Carlton Stewart Graves, Rice
Mary Margaret Gustafson, Minneapolis
James Anthony Haas, Spokane, Wash.,
MAGNA CUM LAUDE

Frances Sweningson Hagen, Montevideo
Arlene Marie Harding, Minneapolis
Thomas Gerald Hayes, Minneapolis
Edwin Allan Henderson, St. Paul
Daniel James Hensel, A.A., Manitowoc, Wis.
Jacqueline Jeanne Jacoby, Minneapolis
Clifford Leroy Jensen, Minneapolis,
CUM LAUDE
James Nicholas Johannes, St. Paul
Charles Clark Johnson, Minneapolis
Richard Charles Johnson, Proctor
Mark Spencer Jones, Albert Lea
Sylvia Louise Juran, Tuckahoe, N.Y.
Cynthia Hampton Kelley, Minneapolis
Robert Bruce Klaverkamp, Mankato
Lois Darlene Klugman, Minneapolis
Frank George Loesser, A.L.A., Manchester, England, MAGNA CUM LAUDE
James Robert Luck, Minneapolis

Elmer Emanuel Luoma, Minneapolis
 Joseph Patrick Mackey, Minneapolis
 Sonja Constance Mation, Belview
 Theodore S. Matsuo, Honolulu, T.H.
 Judith Mayberg, Minneapolis
 Lucile McClernon, Minneapolis, CUM
 LAUDE
 Diane Virginia McDonald, Minne-
 apolis
 James Harold Miller, St. Paul
 William Milton Nickey, Minneapolis
 Leonard Lauritz Olson, Minneapolis
 Michael O'Reilly, Minneapolis
 Florence Irene O'Rourke, A.A., Wi-
 baux, Mont., CUM LAUDE
 Donald James Pearson, Albert City,
 Iowa
 Marjorie Jean Pelton, Minneapolis,
 CUM LAUDE
 Carolyn Sarah Phillips, A.L.A., Min-
 neapolis
 Eugene James Putzer, Oshkosh, Wis.
 Harvey Retzloff, Hammond, Ind.,
 CUM LAUDE
 Martha Ann Robohm, Minneapolis
 Donald Alfred Rogers, A.L.A., Min-
 neapolis
 Orlando Rutherford Ruschmeyer,
 Stewart, MAGNA CUM LAUDE
 Willard Chapple Sawyer, St. Paul
 Maryan Strathy Schall, Minneapolis,
 MAGNA CUM LAUDE
 Lorraine Marian Simmons, Minne-
 apolis
 Lloyd Kittrell Sines, Reno, Nev.,
 MAGNA CUM LAUDE
 John Stewart, Shippensburg, Pa.
 Margaret Jean Stewart, Minneapolis
 Marchet Mary Sullivan, Minneapolis
 Nora Tamberg, Minneapolis
 Donald Roger Ure, North Mankato
 Lawrence Joseph Vaubel, Minneapo-
 lis
 Myron James Wagner, Menomonie,
 Wis.
 Dean Alvin Wahlberg, Sandstone
 Richard Merrill Wheaton, Minne-
 apolis
 Gloria LaFrance Williams, A.A., St.
 Paul
 Robert Jack Williams, Minneapolis
 Gayle Audrey Wold, Minneapolis,
 CUM LAUDE
 Florence Wood, Minneapolis
 Lawrence John Zollar, A.L.A., Gren-
 ville, S.D.

Bachelor of Science

Walter Albert Carlock, A.L.A., Minneapolis

UNIVERSITY COLLEGE

Bachelor of Science

Frederick James Monick, Minneapolis
 Robert Edmund Pospychala, Rhine-
 lander, Wis.

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Herbert Bryce Doyle, Bovey
 Harold Clayton Harris, B.S. in E.E.,
 St. Paul, WITH DISTINCTION

Bachelor of Aeronautical Engineering

Herbert Charles Beck, Minneapolis

John Frank Krey, St. Cloud

Bachelor of Architecture

Merrill Leonard Anderson, B.A., Minneapolis

Daniel Wyman Fourre, B.A., St. Paul
Daniel Richard Pates, St. Paul

Bachelor of Chemical Engineering

Theodore Lowell Willard, Minneapolis

Bachelor of Civil Engineering

Earl George Angell, Minneapolis
Charles Andrew Johnson, Minneapolis

William Bruce Olson, Battle Lake
Myron Eric Ostlund, Harris
Ronald William Rau, Prior Lake

Bachelor of Electrical Engineering

Edward John Ehlenz, St. Paul
Meredith Kemper Eick, Marshall,
WITH DISTINCTION
Gudmundur Trausti Fridriksson, Borgarnes, Iceland
Bert Ellis Hulstrand, Goodhue, WITH
HIGH DISTINCTION
Henry Iverson, Minneapolis

Robert Joseph Neveaux, Minneapolis
Donald Keith Proctor, St. Paul
Frederick Anthony Swenson, Minneapolis
Elvin William Tlam, Jeffers
Gene Donald Velkers, Hampton,
Iowa

Bachelor of Industrial Engineering

John Lester Leppla, St. Paul

Bachelor of Mechanical Engineering

Thomas Calvin Cahoon, Minneapolis
Loren Monell Dekko, Gary
Herbert Bryce Doyle, Bovey
Richard Irvin Gaustad, Minneapolis,
WITH DISTINCTION
William Joseph Gross, Minneapolis
Gordon Earl Harms, Benton Harbor,
Mich.
Harold Clayton Harris, B.S. in E.E.,
St. Paul, WITH DISTINCTION

John Homza, Minneapolis
Earl Kenneth Hoyne, Albert Lea
Robert Louis Kunz, South St. Paul
Lewis Lawrence Lisson, St. Paul
Kenneth Peder Ness, Minneapolis
Thomas Philip Shillock, Minneapolis
James Henry Thoe, Baudette
Milton Eugene Weichelt, Minneapolis

Bachelor of Metallurgical Engineering

Richard Donald Engquist, Minneapolis

COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE

Bachelor of Science

- Nancy Anne Booton, St. Paul, Home Economics
John Colby Carlsen, Minneapolis, Fish and Wildlife Management
Robert George Flaskerd, A.A., Minneapolis, Agriculture
William Eggers Franz, Minneapolis, Agriculture
Robert Duane Garner, Murfreesboro, Tenn., Forestry
Leo James Grebner, Faribault, Agriculture
Mary Crawford Hall, Minneapolis, Home Economics
Marilyn Marie Hansen, Mora, Home Economics
Richard David Herman, Minneapolis, Agriculture
Hugh Randall Hinds, A.L.A., Jackson, Agriculture
Frederick Benjamin Kaehler, Red Wing, Agriculture
Howard Robert Kiebel, Monticello, Agriculture
Kathleen Lucille Kildow, Minneapolis, Home Economics, WITH DISTINCTION
Robert Calvin Malcolm, South St. Paul, Agriculture
James William Murphy, Morris, Agriculture
Maynard Melvin Nelson, Blooming Prairie, Fish and Wildlife Management
Sylvia Carol Ogren, Mound, Home Economics, WITH DISTINCTION
Margaret Mary Paulson, St. Paul, Home Economics
James Augustus Pizarro, Leonard, Agriculture
Margaretha Emily Reedy, Minneapolis, Home Economics
Edwin Arden Roehl, Odessa, Agriculture
Eugene A. Schoen, Hastings, Forestry
Allene Sher, A.A., Duluth, Home Economics
Gerald Herman Simonson, New Richland, Agriculture, WITH DISTINCTION
Joseph Edwin Sizer, A.A., Minneapolis, Agriculture
Kenneth Gordon Torgerson, Duluth, Forestry
Helen Marguerite Van Wagenen, Minneapolis, Home Economics
Russel Alvin Walter, Buffalo Lake, Agriculture

COLLEGE OF AGRICULTURE, FORESTRY, HOME ECONOMICS, AND VETERINARY MEDICINE, AND COLLEGE OF EDUCATION

Bachelor of Science

- Donald Frederick Bakehouse, Owatonna, Agricultural Education
Elizabeth Franz, Bingham Lake, Home Economics Education
Birdeen Elizabeth Gustafson, Minneapolis, Home Economics Education
Louise Marie Harbo, Austin, Home Economics Education
Jeanne Violet Koski, Nashwauk, Home Economics Education
Karl John Maki, Sturgeon River, Agricultural Education, WITH DISTINCTION

Olive Leane Nilsen, Willmar, Home
Economics Education
Doris Magdalen Price, Lamberton,
Home Economics Education

Lila Rodmyre Rosell, Hector, Home
Economics Education
Carol Marum Rudstrom, Chisholm,
Home Economics Education

COLLEGE OF EDUCATION

Bachelor of Science

Genevieve Evelyn Anderson, Dawson,
WITH DISTINCTION

Janet Mary Arndt, Austin*

Alice Evangeline Axelson, Welch,
WITH DISTINCTION*

Martha Louise Benston, Lanesboro,
WITH DISTINCTION*

Audrey Carn Bergquist, Minneapolis

Elizabeth Ann Conway, Mankato

Robert Joseph Coulton, B.A., M.A.,
Minneapolis

Raymond Paul Crosby, Bemidji, WITH
DISTINCTION

Anna Helen Ellis, St. Paul*

Ann Natalie Gandrud, Glenwood

Marjorie LaFleur Gilstad, Minneapo-
lis, WITH DISTINCTION

Patricia Ann Gleeson, Hopkins, WITH
DISTINCTION

Mary Jean Gulck, Minneapolis*

Andrew Wolfsberg Hammond, Dead-
wood, S.D.

Gerhard Karroll Haukebo, Underwood

Sharon Louise Hill, Brainerd*

Donald Lee Jobe, A.A., St. Paul

Rose Kaplan, Belmar, N.J.*

Esther C. Kittleson, Louisburg, WITH
DISTINCTION

Thomas Raymond Krueger, Duluth

Mary Eunice Kurpuis, R.N., Brain-
erd*

Beverly Jean Levine, Minneapolis*

Aagot Loftfield, Minneapolis

Helen Theresa Lonchar, Mooseheart,
Ill.*

Phyllis Mae Lotwin, St. Paul

Edgar Raymond Magnuson, Minne-
apolis

John Hervey Marr, Minneapolis

Irene Fern Miller, LeMars, Iowa,
WITH HIGH DISTINCTION*

Mabel Jean Cachiaras Miller, B.A.,
Minneapolis

Nelly Newell, San Dimas, Calif., WITH
HIGH DISTINCTION*

Edward John Nichols, Duluth

Audrey Johanna Nielsen, Albert Lea

Simon Thomas O'Loughlin, Minne-
apolis, WITH DISTINCTION

Alice Marian Olson, Minneapolis

Beatrice Dolf Orenstein, St. Paul,
WITH DISTINCTION

Marvin Gehart Ouren, Jr., Hanska

Arlin Gayland Paulson, St. Paul

Patricia Ann Richardson, St. Paul

Doris Olivia Rufsvold, Fort Ransom,
N.D.*

Neil Bradley Sandberg, Rochester

Rutherford Louis Sander, Jr., Arling-
ton

Garland Max Spriggs, Des Moines,
Iowa

Joan Kay Squiers, Wayzata

Alice M. Steenhoven, St. Paul, WITH
DISTINCTION

Ruth Marie Stoltz, Dayton, Ohio,
WITH DISTINCTION*

Mathilda Suzanne Sybrant, Wahpe-
ton, N.D.*

Mona Takao, Minneapolis*

Ruth Pauline Taylor, Bel Air, Md.*

Helen R. Thorne, B.A., St. Paul

William Lloyd Tomlinson, Minneapo-
lis

Louise Ann Wahlsten, Virginia

Ronald Bernard Youngquist, St. Paul

* Nursing Education Curriculum

Master of Education

Edward Frank Gorilla, B.S., Iron-wood, Mich.
Paul Thomas Johnson, B.S., Sioux Falls, S.D.

Virginia Curry Kilander, B.S., Minneapolis

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Lennie Levi Arnevik, A.L.A., Colfax, Wis.

Garland Curtis Brandt, Moorhead

Robert John Carlson, St. Louis Park

Harvey DeGroot, Edgerton

Calvin Jerome Engelstad, Hallock

Gerald Royce Erlandson, St. Paul

James Thomas Garvey, Tracy

Richard Irvin Gaustad, Minneapolis,
WITH DISTINCTION

Arthur Frank Graczyk, Minneapolis

Roland Douglas Graham, Minneapolis

Clarence Joseph Graves, Jr., Columbia Heights

Phillip Mayer Greene, Minneapolis

James Hubert Haley, Kelliher, WITH
DISTINCTION

Neil Henry Hanson, Virginia

Donald Leslie Hauck, Madison

Bill Eugene Henry, Minneapolis

Myles Earl Hymes, St. Paul

Gerhardt Paul Kirchmann, Minneapolis, WITH DISTINCTION

Jack Merle Lee, Minneapolis

Robert Wellington Mason, Minneapolis, WITH DISTINCTION

Sandy Julia Miller, Sauk Rapids

James Harold Neumann, Minneapolis

Dorothy Marie Nissen, A.A., Park Rapids

William Donald Nordstrom, Minneapolis

Richard Lawrence Peterson, St. Paul

Keith George Rasmussen, Jackson, WITH DISTINCTION

James Leonard Schwarz, Minneapolis

Frederick John Souba, Owatonna

Robert Sletten Stewart, Minneapolis

Bachelor of Science in Economics

Robert Ellsworth Peterson, Minneapolis

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Michael William Callas, Minneapolis

LAW SCHOOL

Bachelor of Laws

Charles William Arnason, B.S.L., St. Paul

COLLEGE OF MEDICAL SCIENCES

Graduate in Nursing

Theresa Ann Constantine, Eveleth
Charlotte Ann Taylor Finden, Pelican
Rapids
Mary Jean Gulck, Minneapolis
Marion Andrea Iverson, Mound

Clarice Joyce Larson, A.A., Fertile
Beverly Jean Levine, Minneapolis
Georgia Jean Mowrey, Rushmore
Mathilda Suzanne Sybrant, Minneapo-
lis

Bachelor of Science

Margaret Elva Butler, Duluth, Occu-
pational Therapy
Al Gene Barbara Calhoun, Harris,
Iowa, Public Health Nursing
Pernina Cadwell Carraher, Washing-
ton, Ill., Public Health Nursing
Carol Christie, Langdon, N.D., Public
Health Nursing, WITH DISTINCTION
Theresa Ann Constantine, Eveleth,
Public Health Nursing
Harriet Marshall Darling, Mankato,
Medical Technology†
Charlotte Ann Taylor Finden, Pelican
Rapids, Public Health Nursing
Mary Frances Hart, Monticello, Medi-
cal Technology†
Edith Elizabeth Harvey, Eveleth, Pub-
lic Health Nursing
Marion Andrea Iverson, Mound, Pub-
lic Health Nursing
Agnes Christine Jensen, Des Moines,
Iowa, Public Health Nursing
Rosemarie Therese Kelly, Minne-
apolis, Occupational Therapy
Ada Lei Kitano, Honolulu, T.H.,
Medical Technology†

Clarice Joyce Larson, A.A., Fertile,
Public Health Nursing, WITH DIS-
TINCTION
Patricia Buckstaff Leary, Minneapolis,
Public Health Nursing
Arline Marie Lick, St. Paul, Public
Health Nursing
Jack Woodrow Morton, A.A., B.S.,
Minneapolis, Occupational Therapy
Georgia Jean Mowrey, Rushmore,
Public Health Nursing
Nancy Gay Nelson, Bemidji, Medical
Technology†
Naomi Leona Quinnell, Randolph,
Public Health Nursing, WITH DIS-
TINCTION
Sylvia Jeanette Ronnei, Starbuck, Pub-
lic Health Nursing, WITH DISTINC-
TION
Beverly Ann Stordal, Minneapolis,
Occupational Therapy, WITH DIS-
TINCTION
Muriel F. Swenberg, R.N., Stillwater,
Public Health Nursing

Master of Public Health

Robert Howard Conn, B.S., M.A.,
Oil City, Pa.
Belva Marlow Gochenour, B.S., St.
Louis, Mo.
Louise Broude Gordon, B.S., G.N.,
Minneapolis
Ann Hauser, B.S., Minneapolis

Alice Herzig, B.A., M.A., New York,
N.Y.
Ann Elizabeth Hill, B.S., San Fran-
cisco, Calif.
Ellen Agnes Roller, B.S., Pemberville,
Ohio

† These degrees are conferred subject to satisfactory completion of required practical work prior to March 20, 1952.

Doctor of Medicine

Roland Graeme Brown, B.A., M.B., Rochester

GRADUATE SCHOOL

Master of Arts

Robert John Adrian, St. Paul

B.A. '46, University of Illinois. Major: Child Welfare. Minor: Educational Psychology. Thesis: A Study of the Dominant-Subordinate Relationships Fostered by the Mutual Thwarting of Goal Tendencies in Albino Rats.

August Harold Akerstrom, New Brunswick, N.J.

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

Morrell G. Anderson, Gibbon

B.A. '39, Gustavus Adolphus College. Field of Concentration: Educational Administration.

Frank Joseph Atelsek, Milwaukee, Wis.

Ph.B. '50, Marquette University. Major: Sociology. Minor: Psychology. Thesis: Social Adjustment to Extended Periods of Negro Residence in Predominantly White Neighborhoods.

Paul Gottlieb Baer, New Ulm

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

Warren Michael Batell, Tampa, Fla.

B.A. *cum laude*, '50, University of Minnesota. Major: Zoology. Minor: Biostatistics. Thesis: An Investigation of Intelligence in Familial Relationships.

Alan David Bennett, New York City, N.Y.

B.S.S. '49, College of the City of New York. Major: Psychology. Minor: Zoology. Thesis: Regression in the Rat: Role of the Preference Factor.

Clarence Oscar Bergeson, St. Paul

B.A. '40, Gustavus Adolphus College. Field of Concentration: Curriculum and Instruction.

Leo Clement Boyle, Jr., St. Paul

B.S. '47, College of St. Thomas. Field of Concentration: Curriculum and Instruction.

Isobel Joan Calof, Winnipeg, Manitoba, Canada

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

Orin Gerald Clementson, Richmond, Va.

B.S. '41, Stout Institute. Field of Concentration: Industrial Education.

James Harris Copp, Thief River Falls

B.A. *magna cum laude* '49, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: A Study of Farm Households of Scandinavian Descent in an Area of Low Agricultural Productivity.

Carl Grammer Croyder, Summit, N.J.

B.A. *magna cum laude* '50, Washington and Lee University. Field of Concentration: American Studies.

Lynn Howard Draper, Minneapolis

B.S. in Ed. '42, Northwestern University. Field of Concentration: Educational Psychology.

Richard Tweed Drinnon, Wyoming

B.A. '50, Willamette University. Field of Concentration: History.

Edward Lockwood Falk, Minneapolis

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

Philip Morris Ford, Jr., Minneapolis

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

Clifford Charles Fortin, Hamel

B.S. '43, University of Minnesota. Major: Library Science. Minor: History. Thesis: A History of the St. Thomas College Library.

Sidney Stanley Goldish, Minneapolis

B.A. *magna cum laude* '34, University of Minnesota. Major: Journalism. Minor: Political Science. Thesis: The Minnesota Poll and the Undecided Voter.

Charles Wheelock Goulding, Minneapolis

B.S. in Engr. '27, Brown University. M.A. '35, Columbia University. Major: Educational Psychology. Minor: Psychology. Thesis: A Study of the Distribution of Minnesota Multiphasic Personality Inventory Profiles in a College Population.

John Carlton Grams, Minneapolis
B.A. '49, University of Minnesota. Major:
Anthropology. Minor: Geography. Thesis: Ac-
culturative Aspects of the Early Missionary
Efforts Among the Matabele.

Eduard Horst Grosse, Berlin, Ger-
many

Graduate of Frankfurt University, Germany.
Major: Economics. Minor: Political Science.
Thesis: The Development of the German
Economy from June 20, 1948 to Summer,
1950, Including a Description of the Economic
Situation of Defeated Germany from 1945 to
the Currency Reform of June, 1948.

Robert Allan Hackenberg, St. Paul
B.A. '50, University of Minnesota. Major:
Anthropology. Minor: Sociology. Thesis: Se-
quence of Cultures in the Prehistory of In-
donesia.

Byron Eugene Harrell, St. Paul
B.A. '47, University of Minnesota. Major:
Zoology. Minor: Botany. Thesis: The Birds
of Rancho del Cielo—An Ecological Investi-
gation in the Oak-sweet Gum Forests of
Tamaulipas, Mexico.

Edward John Heubel, College Point,
N.Y.

B.A. '49, Yale University. Field of Con-
centration: Political Science.

Harley Edward Hiller, Jr., St. Paul
B.A. '49, Westmar College. Field of Con-
centration: History.

William Eric Hodgson, Edmonton,
Alberta, Canada

B.A. '35, B.E. '44, University of Alberta.
Field of Concentration: Educational Psychol-
ogy.

Robert Joseph Hogenson, Sheboygan,
Wis.

B.S. '48, University of Wisconsin. Field of
Concentration: Speech.

Walter Vick Hohenstein, Lake City
B.A. with special honor '50, Winona State
Teachers College. Field of Concentration:
Political Science.

Henry Elton Hull, Minneapolis
B.S. '49, Bemidji State Teachers College.
Field of Concentration: History.

Jerry Russell James, Miami, Okla.
B.A. '49, University of Oklahoma. Field of
Concentration: Library Science.

Hans Enghave Jensen, Viby, Den-
mark

B.Comm. '49, Copenhagen Graduate Business
School. Field of Concentration: Economics.

Carl Frandall Jesness, Fosston
B.S. '43, Bemidji State Teachers College. Field
of Concentration: Educational Psychology.

Edward Brooke Jesson, Seattle, Wash.
B.A. '31, Columbia University. Major: Speech.
Minor: English. Thesis: New Plays and Old
Conventions: An Essay Together with Two
Original Plays.

Miles Beardsley Johnson, St. Peter
B.A. '47, Gustavus Adolphus College. Major:
Journalism. Minor: History. Thesis: An Eco-
nomic Study of Suburban Weeklies in the
Minneapolis Area.

John H. Kershaw, Chokio
B.E. '39, Duluth State Teachers College.
Field of Concentration: Educational Adminis-
tration.

Lena Augusta Kress, St. Paul
B.S. '39, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Peter Jacob Laugen, Duluth
B.A. *magna cum laude* '50, St. Olaf College.
Field of Concentration: Educational Psychol-
ogy.

Leslie Lauren Lindell, Braham
B.A. '42, Gustavus Adolphus College. Field
of Concentration: Educational Administration.

Marcella Corrine Hulke Lorenz, St.
Paul

B.E. '39, National College of Education.
Field of Concentration: Educational Psychol-
ogy.

Richard Conrad Maass, Rochester
B.A. '50, University of Minnesota. Field of
Concentration: Psychology.

Thomas Arthur Mahoney, Argos, Ind.
B.A. '50, Wabash College. Major: Economics.
Minor: Political Science. Thesis: An Investi-
gation of Several Factors Associated with Varia-
tions in Attendance at Union Meetings.

Frank Bethune McDonald, Gastonia,
N.C.

B.S. '48, Duke University. Major: Physics.
Minor: Mathematics. Thesis: A Phenomeno-
logical Study of High Energy Cosmic Ray
Stars as Observed in Nuclear Emulsions.

Roderick Erle McGrew, Mankato

B.A. '50, Ripon College. Field of Concentration: History.

Margaret Elizabeth Mohn, Northfield

B.A. '45, St. Olaf College. Field of Concentration: Speech.

Clayton Peter Morgan, Minneapolis

B.A. '31, Augsburg College. Field of Concentration: Curriculum and Instruction.

Patrick James Moriarty, Grand Rapids

B.A. cum laude '50, American International College. Major: History. Minor: Geography. Thesis: The Schlieffen Plan.

Lyle David Mosso, Topeka, Kan.

B.B.A. '50, Washburn Municipal University of Topeka. Field of Concentration: Economics.

Harry Crisman Murphy, Minneapolis

B.B.A. '48, B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Newell N. Nelson, Jr., St. Paul

B.A. '49, St. Olaf College. Field of Concentration: Economics.

Charles Neil Newstrom, Minneapolis

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

La Verne Louis Nies, Hackensack

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

Norma Gilbertson Olson, Marshall

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

Mary Ellen O'Neill, St. Paul

B.S. '46, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Lloyd Richard Peterson, Minneapolis

B.A. '44, Gustavus Adolphus College. Field of Concentration: Psychology.

Clifford James Plaisance, Minneapolis

B.S. cum laude '38, St. Mary's College. Field of Concentration: Educational Psychology.

David Premack, Aberdeen, S.D.

B.A. magna cum laude '49, University of Minnesota. Field of Concentration: Psychology.

Jacob Schonfeld, London, England

B.A. cum laude '50, Yeshiva University. Field of Concentration: Psychology.

Goroge Henry Shimotori, St. Paul

B.A. '37, University of California. Field of Concentration: Physics.

Mabel Margaretta Sinden, Aurora, Ill.

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

Ernest P. Sjoberg, Virginia

B.A. cum laude '49, Whitworth College. Field of Concentration: Educational Psychology.

Edwin Alexander Swenson, Lewiston

B.A. '17, St. Olaf College. Field of Concentration: Educational Administration.

Robert Earl Tadsen, Brownton

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

Philip Jerome Thiels, Sauk Centre

B.A. '50, St. John's University. Field of Concentration: History.

Lowell Howard Tveten, Waubun

B.A. '49, Concordia College. Field of Concentration: Physics.

Rufus Oliver Webster, St. Louis, Mo.

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

William Allen Wiest, Jr., Monmouth,

Ore.

B.S. '46, Oregon College of Education. Field of Concentration: Curriculum and Instruction.

Merald Ernest Wrolstad, Newport

B.A. '47, University of Wyoming. Field of Concentration: Journalism.

Sarah Zien, Duluth

B.A. '49, University of Minnesota. Field of Concentration: French.

Master of Arts in Public Administration

Margaret Yearout McKay, Austin,
Tex.

B.A. '42, University of Kansas. Major: Public Administration. Thesis: Human Relations in City Management: A Case Study.

Master of Business Administration

Samuel Robert Cratis, Boston, Mass.
B.S. in Bus. Adm. with honor '49, Suffolk
University. Field of Concentration: Economics.

Laina Enne Jokela, Angora
B.B.A. with distinction '48, University of
Minnesota. Field of Concentration: Business
Administration.

Master of Science

Helen Allison, Minneapolis
B.A. cum laude '44, University of Minnesota.
Field of Concentration: Botany.

Maxine Bernhaut, Newark, N.J.
B.S. '45, Pennsylvania State College. Major:
Physiology. Minor: Neuroanatomy. Thesis:
Experimental Studies on Awakening Reactions
and Their Relation to Cortical and Hypo-
thalamic Potentials.

Rolland Laws Blake, Minneapolis
B.Geol.E. '50, University of Minnesota. Major:
Geology. Minor: Mining. Thesis: Cutting Ac-
tion of the Diamond Drill Bit.

Jack Dassenko, Gardner, N.D.
B.S. '50, Emmanuel Missionary College. Field
of Concentration: Agronomy.

Page Rossiter Edmondson, Mankato
B.A. '49, University of Minnesota. Major:
Physiological Chemistry. Minors: Bacteriology
and Physiology. Thesis: A Micro Method for
the Determination of Hyaluronidase and Hyalu-
ronidase Inhibitor.

Hernando Walter Godderz, St. Paul
B.S. '32, Northern State Teachers College.
Field of Concentration: Mathematics.

Kenneth Warren Hanson, Wheaton
B.S. '48, University of Minnesota. Major:
Horticulture. Minor: Plant Genetics. Thesis:
The Preliminary Development of Certain In-
formation on Strawberry Breeding from the
Ascorbic Acid Assays of the Fruit of 130
Inbred Clones.

Lloyd Raymond Heinzl, St. Paul
B.Ch.E. '44, University of Minnesota. Major:
Dairy Husbandry. Minor: Civil Engineering.
Thesis: Some Factors Influencing the Spray
Drying Rates of Milk.

Kenneth Arthur Ingersent, Aylesbury,
England
B.S. '49, University of Aberdeen, Scotland.
Major: Agricultural Economics. Minor: Eco-
nomics. Thesis: A Study of the Effect of
Farm Size on the Earnings and Productive
Efficiency of Farms in Southeastern Minne-
sota.

Arthur Gilbert Johnson, Eveleth
B.A. '50, University of Minnesota. Major:
Bacteriology. Minor: Agricultural Biochemistry.
Thesis: The Relationship of Massine Antigen
Dosage to Antigen Retention and Antibody
Response.

Margaret Phyllis Ladd, Minneapolis
B.S.N. '48, Boston University. Major: Physical
Medicine. Minor: Public Health. Thesis:
Studies on the Effect of Massage, Passive
Joint Motion, and Electrical Stimulation of
the Brachial Plexus on Lymph Flow from
the Forelimb of the Dog.

Thomas Norbert Lahr, St. Cloud
B.S. '50, St. John's University. Major: Or-
ganic Chemistry. Minor: Physical Chemistry.
Thesis: Studies Related to the Synthesis of
Some Heterocyclic Vinyl Ethers. The Clark
Methylation Reaction with Endo-5-Aminobicy-
clo (2,2,1) Heptene-2.

Duane John LeTourneau, White
Bear Lake
B.S. with distinction '48, University of Min-
nesota. Major: Agricultural Botany. Minor:
Agricultural Biochemistry. Thesis: A Colori-
metric Method for the Quantitative Deter-
mination of 2,4-Dichlorophenoxyacetic Acid.

Raymond-Marie Guy Mercier, Quebec
City, Quebec, Canada
B.A. '47, L.Sc. '49, Laval University. Field
of Concentration: Horticulture.

Robert William Merz, Athens, Ohio
B.S. '35, University of Minnesota. Major:
Forestry. Minor: Agricultural Economics.
Thesis: The Germination and Survival of
Various Tree Species Established by Direct
Seeding on Strip-Mined Lands in Ohio.

Clarence Calvin Olson, Westby, Wis.
B.S. '46, University of Minnesota. Field of
Concentration: Dairy Husbandry.

Ramanbhai Kishorbhai Patel, Sarsa,
Via-Anand, Bombay, India
B.Sc. '47, Maganlal Thakordas Balmukunddas
College. Major: Pharmaceutical Chemistry.
Minor: Agricultural Biochemistry. Thesis: The
Synthesis of Some Ester Hydrochlorides of
4-Aminocyclohexane-1-Carboxylic Acid.

Robert Giles Personius, Bismarck,
N.D.

B.S. '48, Oregon State College. Major: Zoology. Minor: Botany. Thesis: A Study of the Fishes of the Little Missouri River.

Martha Johnson Pollak, Minneapolis

B.A. '48, University of Minnesota. Major: Cancer Biology. Minor: Physiological Chemistry. Thesis: Drug Refractoriness in the Therapy of Experimental Mouse Leukemia.

Y. Chiung Puh-Lee, China

B.S. '39, National Central University. Major: Physiology. Minor: Physiological Chemistry. Thesis: The Influence of Some Dietary Factors on Reproductive Function in Mice.

Lowell Hanson Storms, Ada

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

Donald W. Sunderman, LeSueur

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

Sana Ullah, Punjab, Pakistan

B.Sc. '42, M.Sc. '49, University of Punjab. Field of Concentration: Dairy Husbandry.

Allen Franklin Wiese, Eyota

B.S. with high distinction '49, University of Minnesota. Major: Agronomy. Minor: Soils. Thesis: Effect of Band Fertilizer Placement on the Establishment and Winter Survival of Legumes and Grasses.

Master of Science in Aeronautical Engineering

Ralph Chester Janes, Rockham, S.D.

B.S. '50, United States Naval Postgraduate School. Major: Aeronautical Engineering (Propulsion). Minor: Aeronautical Engineering (Structures). Thesis: Investigation of the Airflow in an Acoustic Jet at Resonance.

William Stanley Lubberda, Hammond,
Ind.

B.S. '42, United States Naval Academy. B.S. in Aero.E. '50, United States Naval Postgraduate School. Major: Aeronautical Engineering (Aircraft Engines). Minor: Aeronautical Engineering (Structures). Thesis: The Effect of Centrifugal Force on the Forced Convection Heat Transfer Coefficient.

Willard Averell Pollard, III, Wash-
ington, D.C.

B.S. in E.E. '43, United States Naval Academy. B.S. in Aero.E. '50, United States Naval Postgraduate School. Major: Aeronautical Engineering (Aerodynamics). Minor: Aeronautical Engineering (Structures). Thesis: A Study of the Effect of Some Non-linear Stability Derivatives on the Lateral Motions of Aircraft.

Master of Science in Agricultural Engineering

Tsai Hsing Chen, Shanghai, China

B.S. in Mech.E. '44, National Wu-Han University. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: A Theoretical Approach in Low Land Reclamation with Particular Reference to the Lower Yangtze Valley, China.

Master of Science in Chemical Engineering

Andrew Acrivos, Psychico, Athens,
Greece

B.Ch.E. *summa cum laude* '50, Syracuse University. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: A New Method for Calculating the Number of Theoretical Plates Required for Multi-component Distillation.

Robert Zeller Bancroft, Mishawaka,
Ind.

B.S. in Ch.E. '41, Chem. Eng. '47, Purdue University. M.B.A. '51, University of Minnesota. Major: Chemical Engineering. Minor: Business Administration. Thesis: Instrumentation Panel for Experimenting with and Demonstrating Various Modes of Pneumatic Control.

John Leonard Murray, West Des
Moines, Iowa

B.S. in Ch.E. '50, Iowa State College. Major: Chemical Engineering. Minor: Electrical Engineering. Thesis: A Study of the Hydrolysis of Ethyl Acetate in a Fixed Bed of Cation Ion Exchange Resin.

Master of Science in Civil Engineering

Oscar Calvin Evenson, Hibbing
B.C.E. with high distinction '50, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Control Cylinder Tests Applied to a Modified Plastic Theory of Concrete.

Emilio Rothschild Miranda, Managua,
Nicaragua

Ing. Civil '49, University of Nicaragua. Field of Concentration: Civil Engineering.

Thomas Timar, Minneapolis

B.C.E. '47, University of Grenoble. Major: Civil Engineering. Minor: Mathematics and Mechanics. Thesis: Analytical and Experimental Study of Standing Surface Waves in a Straight, Rectangular, Open Channel with Fixed Corrugated Bottom.

Master of Science in Dental Surgery

Robert Rufus Allen, South Bend, Ind.

D.D.S. '46, Indiana University. Major: Dental Surgery. Minor: Pathology. Thesis: Study of the Nature of Calcified Structures Which Occur in Peripheral Fibromata of the Gingivae.

Master of Science in Dentistry

Robert William Wiethoff, Minneapolis

D.D.S. '42, University of Minnesota. Major: Dentistry. Minor: Metallography. Thesis: The Effect of Centrifugal Force on the Hardness of Cristobalite Investment.

Master of Science in Dermatology and Syphilology

Eugene Paul Schoch, Jr., Austin, Tex.
B.A. '43, M.D. '46, University of Texas.
Major: Dermatology and Syphilology. Minor:
Pathology. Thesis: The Effect of Physiological
Stress ACTH and Cortisone on the Morphology
and Relative Number of Tissue Mast
Cells in the Rat Skin.

Master of Science in Electrical Engineering

Thomas Glenn Dalby, Minneapolis
B.E.E. with distinction '48, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: A Study of a
Resonant Cavity Suitable for a Reflex Kly-
stron.

Harry Anton Gustafson, Minneapolis
B.E.E. with high distinction '50, University
of Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: Cathode Ray
Tube Multiplier.

Gerald Bernard Herzog, Minneapolis
B.E.E. with distinction '50, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: Measurement of
Excess Noise in Semi-conductors.

J. Malcolm Johnson, Jr., Providence,
R.I.

B.E.E. with distinction '47, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: Single Phase
Starting and Running Characteristics of a
Three Phase Induction Motor by the Method
of Symmetrical Phase Components.

Master of Science in Industrial Engineering

Prem Rattan Gupta, Fazilka (Pun-
jab), India
B.Sc. '48, M.Sc. '50, Benares Hindu Univer-
sity. Field of Concentration: Industrial En-
gineering.

Master of Science in Mechanical Engineering

Evan Dale Scheele, St. Paul
B.Mech.E. '47, University of Minnesota.
Field of Concentration: Mechanical Engineer-
ing.

Master of Science in Medicine

Donald Church Balfour, Jr., Los
Angeles, Calif.
B.S. '38, Yale University. M.S. '42, M.D. '43,
Northwestern University. Major: Medicine.
Minor: Pathology. Thesis: Total Gastrectomy:
Physiologic Studies in the Rat.

William Alexander Butcher, Adrian,
Mo.
B.A. '42, Central College. M.D. '45, Univer-
sity of Pennsylvania. Major: Medicine. Minor:
Physiology. Thesis: The Effect of Changes in
Concentration of Cations on the Electrocardio-
gram of the Isolated Perfused Heart: An Ex-
perimental Study.

J P Cole, Alma, Ark.

B.A. *cum laude* '39, University of Arkansas.
M.S. '41, Michigan State College. M.D. '44,
Columbia University. Major: Medicine. Minor:
Hematology. Thesis: The Significance of the
Phagocytic Reticuloendothelial Cell in Blood
Smears from the Ear in Patients with Sub-
acute Bacterial Endocarditis.

Thomas Bernard Gibbons, Spokane,
Wash.

M.D. '48, University of Minnesota. Major:
Medicine. Minor: Physiological Hygiene. The-
sis: Fluid Distribution in Hypertensive Vas-
cular Disease and the Effects of Acute Dehy-
dration upon Fluid Compartments and the
Blood Pressure.

Willis Lester Hubler, Rochester

B.A. '43, M.D. '47, University of Minnesota.
Major: Medicine. Minor: Hematology. Thesis:
The Influence of the Pituitary-adrenal Axis
upon the Hemogram of Febrile White Rats.

Robert Atkin Jordan, Lawrence, Kan.

B.S. '39, Baker University. M.D. '44, Univer-
sity of Kansas. Major: Medicine. Minor: Pa-
thologic Anatomy. Thesis: Mural Thrombosis
and Arterial Embolism in Mitral Stenosis—A
Clinicopathologic Study of Fifty-one Cases.

Albert Joseph Josselson, Ahoskie, N.C.

B.A. '41, University of North Carolina. M.D.
'44, Northwestern University. Major: Medi-
cine. Minor: Pathology. Thesis: Amyloid Dis-
ease of the Heart.

Martin Seler Kleckner, Jr., Rochester

B.A. '42, Dartmouth College. M.D. '45, Uni-
versity of Pennsylvania. Major: Medicine. Mi-
nor: Pathologic Anatomy. Thesis: The Effect
of the Local Application of Glyceryl Trinitrate
(Nitroglycerin) Ointment on Raynaud's Dis-
ease and Raynaud's Phenomenon: Studies on
Blood Flow, Skin Temperature and Clinical
Manifestations.

Roland Drew Miller, Whiting, Ind.

B.A. '42, DePauw University. M.D. '45,
Northwestern University. Major: Medicine.
Minor: Pathologic Anatomy. Thesis: Acute
Myocardial Infarction: A Study of 143 Cases
with Special Reference to the Role of Cardiac
Hypertrophy in the Production of Coronary
Insufficiency.

Robert Avery McNaughton, Miami,
Fla.

B.A. '42, University of North Carolina. M.D.
'45, Harvard Medical School. Major: Medi-
cine. Minor: Biochemistry. Thesis: The Speci-
ficity of Human Erythrocyte Cholinesterase.

Mark Upson, Jr., Cincinnati, Ohio

B.S. '43, Yale University. M.D. '45, Columbia
University. Major: Medicine. Minor: Physi-
ology. Thesis: Studies on Adrenocorticotrophic
Hormone in Human Serum.

Kenneth Rau Woolling, Indianapolis,
Ind.

B.A. *magna cum laude* '39, Butler University.
M.D. '43, Indiana University. Major: Medi-
cine. Minor: Pathologic Anatomy. Thesis: In-
farcts of the Liver: Analysis of 54 Cases from
18,230 Consecutive Autopsies.

Master of Science in Neurosurgery

Richard John Brzustowicz, Brooklyn,
N.Y.

B.S. '38, College of the City of New York.
M.D. '42, Long Island College of Medicine.
Major: Neurosurgery. Minor: Neuropathology.
Thesis: A Study of Cell Rests in the Region
of the Fourth Ventricle and the Relationship
of These Rests to the Origin of Certain Gli-
omas Involving the Fourth Ventricle.

Gerald Leon Haines, Barre, Vt.

B.S. *cum laude* '42, M.D. '44, University of
Vermont. Major: Neurosurgery. Minor: Pa-
thology. Thesis: Concerning Hydrocephalus.

Robert Devere Weyand, Berkeley,
Calif.

B.A. '43, M.D. '45, University of California.
Major: Neurosurgery. Minor: Neuropathology.
Thesis: Meningiomas of the Olfactory Groove
and Tuberculum Sellae.

Master of Science in Obstetrics and Gynecology

David Garrison Decker, Rochester
B.A. '39, University of Rochester. M.D. '42, Yale University. Major: Obstetrics and Gynecology. Minor: Surgical Pathology. Thesis: Primary Malignancy of the Vagina.

Carl E. Johnson, Rochester
B.S. '42, Wheaton College. M.D. '45, Northwestern University. Major: Obstetrics and Gynecology. Minor: Physiology. Thesis: Studies on the Elimination of Chorionic Gonadotropin in the Urine of Gravid Women Following Delivery of the Products of Conception.

Reginald Armitage Smith, Calgary,
Alberta, Canada

M.D. '42, University of Alberta. Major: Obstetrics and Gynecology. Minor: Physiology. Thesis: An Investigation of Human Chorionic Gonadotropin in Early Pregnancy.

Master of Science in Ophthalmology

Joseph John Groom, Miami, Fla.
B.S. '37, Baldwin Wallace College. M.D. '41, Ohio State University. Major: Ophthalmology. Minor: Surgical Pathology. Thesis: Retinoblastoma: A Clinical and Pathologic Study of 88 Cases Seen at the Mayo Clinic from 1915 to 1950.

Master of Science in Orthopedic Surgery

Robert Franklin Kimbrough, Fort
Wayne, Ind.

B.A. '42, DePauw University. M.D. '44, Indiana University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Liposarcoma of the Extremities.

Edward Harvey O'Phelan, St. Paul
B.S. '37, College of St. Thomas. M.D. '44, University of Minnesota. Major: Orthopedic Surgery. Minors: Anatomy and Pathology. Thesis: A Radiographic Survey of the Normal Cervical Spine.

Master of Science in Otolaryngology and Rhinology

Clyde Benjamin Lamp, Jr., Rochester
M.D. '45, University of Pittsburgh. Major: Otolaryngology and Rhinology. Minor: Surgical Pathology. Thesis: Chronic Mastoiditis with Minute Sequestra Formation.

Master of Science in Pediatrics

Edmund Charles Burke, Minneapolis
B.S. '41, College of St. Thomas. M.D. '44, University of Minnesota. Major: Pediatrics. Minor: Pathology. Thesis: The Anatomic Basis for Pulmonary Stenosis in the Tetralogy of Fallot.

Herbert Penuel Falkner Corbin, London, England

MbChB '37, St. Mary's Hospital of the University of London. Major: Pediatrics. Minor: Physiology. Thesis: The Electroencephalogram in Normal Children from One to Ten Years of Age. A Study with Observations on the Use of Frequency Analysis.

Master of Science in Surgery

Alton Duane Anderson, Madison, Wis.

B.S. '41, M.D. '43, University of Wisconsin. Major: Surgery. Minor: Surgical Pathology. Thesis: Carcinoma of the Pyloric End of the Stomach with Obstruction: A Clinical and Pathological Study of the Grade of the Lesion and Presence of Obstruction on the Ultimate Post Resection Prognosis.

P. LeMon Clark, III, Oklahoma City, Okla.

M.D. '45, University of Tennessee. Major: Surgery. Minor: Surgical Pathology. Thesis: Cylindromas of the Trachea.

Douglas Kennedy Duncan, San Francisco, Calif.

B.A. '43, M.D. '46, Stanford University. Major: Surgery. Minor: Surgical Pathology. Thesis: A Comparative Study of the Absorption and Excretion of Different Dosage Forms of Para-aminosalicylic Acid (PAS).

James William Faulkner, Winnetka, Ill.

B.S. '43, University of Illinois. M.D. '45, Northwestern University. Major: Surgery. Minor: Surgical Pathology. Thesis: Lymphosarcoma of the Small Intestine.

Robert Warren Jampolis, Rochester

B.S. '41, M.D. '44, University of Chicago. Major: Surgery. Minor: Surgical Pathology. Thesis: Mineral Oil Granuloma of the Lung: An Evaluation of Methods for Identification of Mineral Oil in Tissue.

Gilbert Gordon Lenz, Reno, Nev.

B.S. '41, M.D. '43, University of Minnesota. Major: Surgery. Minor: Physiology. Thesis: The Effect of General Anesthesia from Pentothal and Curare on the Functional Residual Air.

George Robertson Livermore, Jr., Memphis, Tenn.

B.A. '39, Princeton University. M.D. '43, Harvard University. Major: Surgery. Minor: Surgical Pathology. Thesis: A Study of the Gastric Secretory Inhibitor Action of Canine Gastric Juice.

Robert Powers McBurney, Birmingham, Ala.

B.A. '41, University of Alabama. M.D. '43, Harvard University. Major: Surgery. Minor: Surgical Pathology. Thesis: Small Cell Bronchogenic Carcinoma.

Albert Hogeland Pemberton, Rochester

B.A. '44, Carleton College. M.D. '48, Northwestern University Medical School. Major: Surgery. Minor: Pathology. Thesis: Serum Amylase Levels after Acute Perforation of the Duodenum in the Dog.

Francisco Luis Raffucci-Arce, Rincon, Puerto Rico

M.D. '43, University of Maryland. Major: Surgery. Minor: Physiology. Thesis: The Effects of Occlusion of the Afferent Hepatic Circulation in Dogs.

Warren H. Randall, Miles City, Mont.

B.A. '41, M.D. '43, State University of Iowa. Major: Surgery. Minor: Surgical Pathology. Thesis: Local and Regional Lymphatic Spread in Carcinoma of the Rectosigmoid Colon and the Relation to Prognosis.

Robert Frederick Rauch, Lancaster, Ohio

B.A. '43, Ohio State University. M.D. '45, Harvard University. Major: Surgery. Minor: Pathology. Thesis: An Evaluation of Gastric Resection for Benign Lesions of the Esophagus, Stomach and Duodenum—Review of 953 Cases.

Herbert Robert Ripley, San Francisco, Calif.

B.A. '41, M.D. '45, University of California. Major: Surgery. Minor: Surgical Pathology. Thesis: Experimental Studies of Peptic Ulceration and Stricture of the Lower Part of the Esophagus.

Newell Edwin Wood, St. Paul

B.S. '43, M.D. '46, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: Bronchspirometric Studies Before and After Lobectomy of Patients with Bronchiectasis.

Master of Science in Urology

Richard H. Hempstead, Rochester
B.A. '41, Dartmouth College. M.D. '44, University of Michigan. Major: Urology. Minor: Surgical Pathology. Thesis: The Practical Significance of Lymphoid Stroma in Seminoma of the Testicle.

Master of Social Work

Miriam Clarke Andrus, Minneapolis
Ph.B. '28, University of Chicago. M.A. '32, University of Minnesota. Field of Concentration: Social Work.

Doctor of Philosophy

Hamed A. Abu-Shady, Cairo, Egypt
B.Pharm. '45, M.Pharm. '48, Fouad I University. Major: Pharmaceutical Chemistry. Minors: Pharmacology and Organic Chemistry. Thesis: A Phytochemical Study of *Ambrosia maritima* L. Major Adviser: Prof. T. O. Soine.

James Blanding Arey, Narberth, Pa.
B.S. '35, M.D. '38, M.S. '40, University of Minnesota. Major: Pathology. Minor: Hematology. Thesis: Causes of Fetal and Neonatal Death with Special Reference to Pulmonary and Inflammatory Lesions. Major Adviser: Dr. J. R. Dawson.

John Thomas Buck, Blacksburg, Va.
B.S. '38, Western Kentucky State Teachers College. M.S.A. '47, University of Kentucky. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of the Shift from Cream to Whole Milk in Minnesota Cooperative Creameries. Major Adviser: Prof. O. B. Jesness.

Elizabeth Hahnemann Cuthill, Buffalo, N.Y.

B.A. *cum laude* '44, University of Buffalo. M.S. '46, Brown University. Major: Mathematics. Minor: Physics. Thesis: Integrals on Spaces of Functions Which Are Real and Continuous on Finite and Infinite Intervals. Major Adviser: Prof. R. H. Cameron.

Richard Alan Damon, Jr., Lowell, Mass.

B.S. '47, Massachusetts State College. M.S. '49, University of Minnesota. Major: Animal Breeding. Minor: Plant Genetics. Thesis: A Study of Selection for Factors of Performance in the Swine Herds of the Hormel Foundation. Major Adviser: Prof. L. M. Winters.

John Torngren Day, Minneapolis
B.A. '47, University of Minnesota. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Some Aspects of Aromatic Substitution. Major Adviser: Prof. W. M. Lauer.

Howard Felshaw Drew, Lyons Falls, N.Y.

B.A. '44, M.A. '47, Amherst College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Eliminations and Rearrangements in the B-Disulfone Series. Major Adviser: Prof. W. E. Parham.

Attie Anderson Fleming, Bear Creek, Ala.

B.S. '43, M.S. '49, Alabama Polytechnic Institute. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance of Characters in Corn with Special Reference to the European Corn Borer. Major Adviser: Prof. H. K. Hayes.

Leslie Stewart Forster, Los Angeles, Calif.

B.S. '47, University of California. Major: Physical Chemistry. Minor: Physics. Thesis: Fluorescence Measurements of Chlorophyll Solutions. Major Adviser: Prof. R. S. Livingston.

Gerhard Gunter Friedrich, Haverford, Pa.

M.L.S. '38, Berlin Library School. B.A. '42, Guilford College. M.A. '47, Haverford College. Major: English. Minor: History. Thesis: The Idea of Internationalism in Emerson. Major Adviser: Prof. Theodore Hornberger.

Mohamed Ahmed Gheith, Damanhour, Egypt

B.Sc. '45, Fouad I University. M.S. '50, University of Minnesota. Major: Geology. Minors: Petroleum Engineering and Metallurgy. Thesis: Stability Relations of Ferric Oxides and Their Hydrates Lipscombite; A New Synthetic "Iron Lazulite." Major Adviser: Prof. J. W. Gruner.

John Wesley Gibler, Choteau, Mont. B.S. '47, Montana State College. M.S. '50, University of Minnesota. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Studies on the Control of *Rhizoctonia solani* on Soybeans. Major Adviser: Prof. M. F. Kernkamp.

John R. Harrison, Washington, D.C. B.A. *magna cum laude* '48, American University. M.A. '49, Johns Hopkins University. Major: Zoology. Minor: Botany. Thesis: *In vitro* Analysis of Differentiation of Retinal Pigment in the Developing Chick Embryo. Major Adviser: Prof. N. T. Spratt.

Eugene Floyd Irey, Boulder, Colo. B.A. '34, M.Ed. '40, M.A. '46, University of Colorado. Major: American Studies. Thesis: A Social History of Leadville, Colorado, during the Boom Days, 1877-1881. Major Adviser: Prof. Tremaine McDowell.

Leroy Victor Jones, Minneapolis B.A. '35, Carleton College. Major: Inorganic Chemistry. Minor: Chemical Engineering. Thesis: Investigations of Propylgermanes and Propylgermanic Acid. Major Adviser: Prof. O. H. Johnson.

Ralph Elmer Kelly, Champaign, Ill. B.S. with highest honors '47, University of Illinois. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Studies in the Cyclopropane Series X—The Reaction of Nitrocyclopropyl Ketones with Alkali. Major Adviser: Prof. L. I. Smith.

Robert Adolph Kress, St. Paul B.A. '42, M.A. '47, University of Minnesota. Major: History. Minors: Geography and Political Science. Thesis: *Imago Mundi*: Some Neglected Aspects of the Early Age of Discovery. Major Adviser: Prof. A. C. Krey.

Raymond Howard Larson, St. Cloud B.S. '37, University of Nebraska. M.A. '39, University of Minnesota. Major: Education. Minor: Industrial Education. Thesis: Success Patterns in Industrial Education. A Study of Factors of Influence in the Backgrounds of 237 First Degree and 166 Second Degree Graduates of Minnesota, with Major Interest in Industrial Education. Major Adviser: Prof. H. J. Smith.

Kuo-Hwa Lu, Antung, China B.S. '45, National Central University. M.S. '48, University of Minnesota. Major: Animal Husbandry. Minor: Agricultural Economics. Thesis: A Study of Size of Sample in Litter Testing Swine. Major Adviser: Prof. L. M. Winters.

George Wells Mather, Sioux Rapids, Iowa

D.V.M. '35, Iowa State College. Major: Veterinary Medicine. Minor: Pathology. Thesis: The Development of Methods of Angiotomy Cannulation of and Temperature Measurement in the Pulmonary Artery and Left Atrium together with a Measure of Rectal Temperatures of Normal Dogs. Major Advisers: Profs. M. H. Roepeke and R. L. Kitchell.

Richard Bernard O'Connell, Vermillion, S.D.

B.A. *magna cum laude* '46, M.A. '49, University of Minnesota. Major: German. Minors: Spanish and Comparative Philology. Thesis: Concepts and Symbols in the Poetry of R. M. Rilke—A Study of Their Development. Major Adviser: Prof. F. H. Wood.

Robert Donald Osler, Imperial, Neb. B.S. with distinction '47, University of Nebraska. M.S. '49, Colorado State College of Agriculture and Mechanic Arts. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance Studies in Oats with Particular Reference to the Santa Fe Type of Crown Rust Resistance. Major Adviser: Prof. H. K. Hayes.

Robert Milo Porter, Las Cruces, N.M. B.S. '43, Oregon State College. M.S. '48, University of Minnesota. Major: Dairy Husbandry. Minor: Physiology. Thesis: The Role of Plasma Cells in the Production of Globulins within the Mammary Gland and Time Studies on Antibody Response from Experimentally Induced Inflammation of the Udder. Major Adviser: Prof. W. E. Petersen.

Victor Albert Ryan, Saratoga, Wyo. B.S. with honor '42, University of Wyoming. Major: Physical Chemistry. Minor: Physics. Thesis: A Study of Some Optical Properties of Chlorophyll Solutions. Major Adviser: Prof. R. S. Livingston.

Lester Clayton Sartorius, Welcome B.B.A. with distinction '41, M.A. '49, University of Minnesota. Major: Statistics. Minor: Economics. Thesis: A Statistical Analysis of Eating Places as Marketers of Food Products in Minneapolis and Fairmont, Minnesota, and in the United States. Major Advisers: Profs. B. D. Mudgett and O. B. Jesness.

Norman Frederick Schulz, Minneapolis

B.Ch.E. with distinction '39, M.S. in Ch.E. '50, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Energy-New Surface Relationship in the Crushing of Solids. VI. Effect of Temperature. Major Advisers: Profs. E. L. Piret and S. R. B. Cooke.

Paul Benjamin Sollman, Fort Branch, Ind.

B.S. '47, Indiana University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Reactions of Mannich Bases of Ketoacids. Major Adviser: Prof. W. M. Lauer.

Malcolm Beard Stinson, Minneapolis

B.A. '29, Wittenberg College. M.A. '37, University of Chicago. Major: Social Work. Minor: Sociology. Thesis: Prediction of Medical Care Costs for the Aged: A Problem in Social Work Administration. Major Adviser: Prof. J. C. Kidneigh.

William Arthur Sylvester, Eugene, Ore.

B.A. '40, Columbia University. M.A. '47, University of Chicago. Major: English. Minor: French. Thesis: War and Lechery: Four Themes in the Non-Shakespearean Elizabethan Theatre—1587-1603. Major Adviser: Prof. Huntington Brown.

Aloys Louis Tappel, Webster Groves, Mo.

B.S. '48, Iowa State College. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: Kinetics and Mechanisms of the Lipoxidase Catalyzed Oxidation of Linoleate. Major Advisers: Profs. P. D. Boyer and W. O. Lundberg.

Gerhard E. Tauber, Toronto, Ontario, Canada

B.A. (Honours) '46, University of Toronto. M.A. '47, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Study in Rotation and Gravitation. Major Adviser: Prof. C. L. Critchfield.

Kenneth John Tauer, Morgan

B.S. '44, St. John's University. Major: Physical Chemistry. Minor: Physics. Thesis: The X-Ray Diffraction Studies of Crystalline Methanol. Major Adviser: Prof. W. N. Lipscomb.

Harold Leroy Williams, Lincoln, Neb.

B.A. '44, University of Nebraska. Major: Psychology. Minor: Psychiatry. Thesis: Differential Effects of Focal Brain Damage on the Minnesota Multiphasic Personality Inventory. Major Adviser: Dr. S. R. Hathaway.

Lynne E. H. Trainor, Chamberlain, Saskatchewan, Canada

B.A. '46, M.A. '47, University of Saskatchewan. Major: Physics. Minor: Mathematics. Thesis: The Effects of Nuclear Symmetry Properties on Nuclear Dipole Transitions with Special Application to a Bound Excited State of ${}^4\text{He}$. Major Adviser: Prof. C. L. Critchfield.

Ching-hsi Tsao, Peiping, China

B.S. '40, National University of Chekiang. M.S. '48, University of Minnesota. Major: Entomology. Minor: Botany. Thesis: Quantitative Effects of Diet, Age, Temperature and Humidity on the Cuticles of Five Representative Species of Insects. Major Adviser: Prof. A. C. Hodson.

Orrin Clinton Turnquist, St. Paul

B.S. with high distinction '37, M.S. '40, University of Minnesota. Major: Horticulture. Minor: Plant Genetics. Thesis: Specific Gravity of Varieties and Seedling Families of Potatoes. Major Adviser: Prof. F. A. Krantz.

Richard W. Von Korff, Minneapolis

B.A. '47, University of Minnesota. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Studies on Gastric Urease Employing Isotopic Urea. Major Adviser: Prof. David Glick.

Gustave Sulo Wall, Minneapolis

B.S. '31, M.A. '37, University of Minnesota. Major: Education. Minor: Industrial Education. Thesis: Dual-Purpose Industrial Education at the College Level. Major Adviser: Prof. H. J. Smith.

William Paul Webb, Bismarck, N.D.

B.S. in Chem. *cum laude* '47, University of Notre Dame. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Studies of the Abnormal Reimer-Tiemann Reaction. Major Adviser: Prof. C. F. Koelsch.

Edith West, Minneapolis

B.A. *cum laude* '38, B.S. '39, M.A. '46, University of Minnesota. Major: Education. Minor: Political Science. Thesis: The Treatment of International Relations in Twelfth Grade Social Studies Textbooks. Major Adviser: Prof. H. T. Morse.

Otis Bullard Wheeler, Tulsa, Okla.

B.A. '42, University of Oklahoma. M.A. '47, University of Texas. Major: English. Minor: Philosophy. Thesis: Maurice Thompson: A Biographical and Critical Study. Major Adviser: Prof. Theodore Hornberger.

Doctor of Philosophy in Neurosurgery

Robert George Fisher, Hanover, N.H.
B.S. '38, Rutgers University. M.D. '42, University of Pennsylvania. Major: Neurosurgery. Minor: Neuropathology. Thesis: Spina Bifida and Cranium Bifidum. A Clinico-pathological Study. Major Adviser: Dr. J. W. Kernohan.

Doctor of Philosophy in Radiology

Halvor Vermund, Oslo, Norway
M.D. '43, University of Oslo. Major: Radiology. Minor: Cancer Biology. Thesis: Effects of Roentgen Irradiation on Incorporation of Radiophosphorus into Intracellular Constituents of Transplanted Mouse Mammary Carcinoma. Major Advisers: Drs. K. W. Stenstrom and L. G. Rigler.

Doctor of Philosophy in Surgery

Donald John Ferguson, Minneapolis
B.S. '39, Yale University. M.D. '43, M.S. '51, University of Minnesota. Major: Surgery. Minor: Physiology. Thesis: Studies on the Antral Phase of Gastric Secretion. Major Adviser: Dr. O. H. Wangenstein.

Leonard Francis Peltier, Minneapolis
B.A. '41, University of Nebraska. M.D. '45, University of Minnesota. Major: Surgery. Minor: Physiology. Thesis: Observations on Respiration Using a Pneumotachograph. Major Adviser: Dr. O. H. Wangenstein.

Yoshio Sako, St. Paul
B.A. '40, University of California. M.D. '47, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: Studies in Wound Healing of the Aorta with Special Reference to Problems of Anastomosis and Grafting Technic. Major Adviser: Dr. R. L. Varco.

Franklin Robert Smith, Milwaukee, Wis.
M.D. '42, Marquette University. Major: Surgery. Minor: Pathology. Thesis: An Analysis of Variations of the Segmental Bronchi of the Right Lower Lobe of Fifty Injected Lungs. Major Advisers: Drs. H. K. Gray and E. A. Boyden.

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, Home Economics, and 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 be either black or may match the color of the hood edging.

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.

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

For the Master's and Doctor's degree, 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 their appearance on the platform)

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, Home Economics, and Veterinary Medicine.....	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