

THE
UNIVERSITY OF MINNESOTA

Announces Its

March Commencement

1958

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, MARCH 20

AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Clarence E. Larson, Assistant Secretary

Mr. Laurence R. Lunden, Treasurer

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First Vice President and Chairman

The Honorable George W. Lawson, St. Paul
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The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and seventh birthday. As from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded more than 135,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to more than 25,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members, who are county agents, home agents, and recreation and health consultants, give effective aid and assistance to citizens of the state in their very homes.

But the University of Minnesota, like all great universities, has expanded far beyond its early teaching and training programs. In its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, heart surgery, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, and 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 University Artists Course, the Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

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

the Masonic Memorial Cancer Hospital and will make it possible, in the near future, to build the Veterans of Foreign Wars Institute for Cancer Research.

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

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

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

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

The summary financial statement of 1956-57 showed that the University received \$63,563,590.75 and spent \$63,559,225.93. This includes, of course, \$11,094,272.92 received from student tuition and fees, hospital and other departmental receipts; \$1,287,807.36 from intercollegiate athletics; \$11,900,800.04 from such services as dormitories and dining halls, printing, the laundry, University Press, Concerts and Lectures, University Theater, and Health Service, and from the revolving funds; and \$13,881,776.12 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research prizes, scholarships, and the care of the sick, as well as from the Permanent University Fund derived from land set aside by the Federal Government, and the occupational tax on iron ore. Also, \$2,269,805.06 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$63,559,047.72, which the University received for 1956-57, \$23,124,586.22 came from the state.

All students at the University, their families and friends are invited to continue their enthusiasm and interest in the University of Minnesota. Graduates are especially urged to identify themselves with the 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

ASSEMBLING OF THE AUDIENCE: As candidates for degrees and their friends and relatives reach the Minneapolis Campus of the University from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium, Miss Kathryn Simpson, SLA '58, carillonneur. Admission to the March commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

PRELUDE CONCERT: From 7:30 to 8:00 p.m., the University Concert Band Ensemble, Mr. Gale L. Sperry, M.Ed., Instructor in Music and Bandmaster, will play:

| | | |
|-------------------------|-----------|------------------|
| Fanfare and Scenario | - - - - - | John Cacavas |
| Il Pasticcio Overture | - - - - - | William Latham |
| Meditation from "Thais" | - - - - - | Massenet-Harding |
| Symphonic Suite | - - - - - | Clifton Williams |
| I. Intrada-Chorale | | |
| II. March | | |
| III. Jubilee | | |
| Tulsa | - - - - - | Don Gillis |

PROCESSIONAL:

Procession of Nobles from "Mlada" - - - Rimsky-Korsakov

ON THE STAGE: As candidates for degrees enter the Auditorium at 8:00 p.m., the curtain will be opened. Seated on the platform, left to right, are: Associate Professor Frederick E. Berger, B.A., director of the Center for Continuation Study, Marshal; Assistant Professor Truman K. Nodland, Ph.D., Agricultural Economics, Marshal; Associate Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Associate Dean Theodore H. Fenske, D.Sc., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean J. William Buchta, Ph.D., University College; Dean Horace T. Morse, Ph.D., General College; Colonel Robert D. McCarten, USAF, Professor of Air Science; Colonel Dean M. Benson, USA, Professor of Military Science and Tactics; Recorder True E. Pettengill, M.A., Admissions and Records; President C. W. deKiewiet, Ph.D., University of Rochester, Rochester, N. Y.; President James Lewis Morrill, LL.D., University of Minnesota; the Reverend George Schermer, adviser to Evangelical Mission Covenant students and staff members on the Minneapolis Campus of the University of Minnesota; Vice President Malcolm M. Willey, Ph.D., Academic Administration; Dean Edmund G. Williamson, Ph.D., Student Affairs; Colonel Robert O. Bowen, USMC, Professor of Naval Science; Assistant Dean Huntington Miller, LL.B., General Extension Division; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Professor Bryce L. Crawford, Jr., Ph.D., Institute of Technology;

Order of Events

Dean Walter W. Cook, Ph.D., College of Education; Dean William B. Lockhart, S.J.D., Law School; Dean Theodore C. Blegen, Ph.D., Graduate School; Professor Roy A. Schuessler, M.M., Music; Associate Professor Irvin E. Liener, Ph.D., Agricultural Biochemistry, Marshal.

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

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

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

INVOCATION: The Reverend George Schermer.

SPEAKING FOR THE UNIVERSITY: President James Lewis Morrill.

COMMENCEMENT ADDRESS: President C. W. deKiewiet, University of Rochester, Rochester, N. Y., "The Egghead and You."

CONFERRING OF ROTC CERTIFICATES: Vice President Willey will introduce Colonel Benson, Colonel Bowen, and Colonel McCarten, who will present the candidates for commissions in their respective branches of the Armed Services. Certificates of ROTC Completion will be presented by President Morrill.

CONFERRING OF DEGREES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Morrill the candidates for certificates and degrees. They are, in order of their introduction: Assistant Dean Miller for the General Extension Division; Dean Morse for the General College; Dean McDiarmid for the College of Science, Literature, and the Arts; Associate Dean Buchta for University College; Professor Crawford for the Institute of Technology; Associate Dean Fenske for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Cook for the College of Education; Dean

Order of Events

Kozelka for the School of Business Administration; Dean Lockhart for the Law School; Associate Dean Howard for the College of Medical Sciences; and Dean Blegen for the Graduate School.

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

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

“HAIL! MINNESOTA,” the University’s alma mater song. The audience and Professor Schuessler.

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

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

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

Marche Processional - - - - - Clare Gundman

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, Artillery

Peter E. Wielinski, Minneapolis

Second Lieutenant, Infantry

Walter F. Benson, Minneapolis

Second Lieutenant, Ordnance Corps

Donovan L. Olsen, Flint, Mich.

Second Lieutenant, Transportation Corps

Fred K. Picha, Jr., Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

John William Moran, Jr., St. Paul Park

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

James R. Bogard, Mankato
Roger B. Carlson, Minneapolis

Donald A. Dibbern, Luverne
Clarence E. Henke, St. Paul

Candidates for Graduation

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

GENERAL EXTENSION DIVISION

Business Certificate

Arthur Lloyd Christensen, Minneapolis
Donald Ray Eckmann, Minneapolis
Clifton George Lingle, Minneapolis
Eugene Louis Minea, St. Paul

Edwin Wilfred Norgard, Duluth
George Francis Schuh, Richfield
George Fallon Taylor, St. Paul

Engineering Certificate

James Louis Roycraft, Minneapolis

Calvin Sumi Stinar, Minneapolis

GENERAL COLLEGE

Associate in Arts

Richard Beny Ahern, Excelsior
Robert Merritt Andreas, St. Paul
Richard Killmer Austin, Sauk Centre
Peter George Banister, Lake Elmo
Richard Martin Bauman, Minneapolis
Kenneth Bernhard Belland, Jr., Minneapolis
Paul Francis Belting, St. Paul
Thomas Peter Benick, St. Paul
Stanton Lyle Berde, St. Paul
Lyle Jerome Berg, Minneapolis
Jerry James Bevans, Minneapolis
David Bernard Carlson, Appleton
Michael Emmett Carroll, Minneapolis
Charles James Ciliberti, Minneapolis
Robert Lloyd Coulter, Minneapolis
Patrick Allen Craig, Walker
Judith Gretchen Denike, Minneapolis
William Edward Dietz, Minneapolis
Stuart DeWayne Dittbrenner, Bloomington
George William Dyer, Jr., St. Paul

Harry Arthur Engelbrecht, Minneapolis
Donald Eric Englin, Minneapolis
Richard Winston Estrem, Minneapolis
Jack Arthur Fecht, Minneapolis
Gerald Robert Fitzsimmons, Minneapolis
Merlin Ralph Garner, Elk River
Robert Allen Goldman, St. Paul
Charles Donald Granlund, St. Paul
Roy Sydney Griffin, Menlo Park, Calif.
Lowell Maurice Halvorson, Willmar
Zana Marie Hammargren, Rush City
Bruce Averill Harden, St. Paul
John Cords Heitkamp, Minneapolis
Donald C. Henderson, Minneapolis
Robert Warren Heraly, Minneapolis
David George Johnson, Minneapolis
James Louis Jones, Jr., Minneapolis
Jerrold Irwin Leeson, Minneapolis
Thomas Gerald Lehman, Minneapolis

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|---|---|
| Thomas Arthur Lentz, Minneapolis | Mary Ann Roddis, Rochester |
| Dennis Lee Leonard, Minneapolis | Richard Henry Royster, St. Paul |
| Robert Simpson MacNamara, Edina | David L. St. George, St. Paul |
| Edward James Mahoney, Minneapolis | Richard Kenneth Seaman, Minneapolis |
| Sandra Marie Mallin, Osceola, Wis. | Phillip Roy Smith, Minneapolis |
| John William Miller, Minneapolis | Harlan R. Stoehr, Elgin |
| Robert Dexter Morse, Minneapolis | James Patrick Tambornino, Hibbing |
| James Richard O'Brien, Minneapolis | Frank Charles Thissen, Blooming Prairie |
| Harold Henry Olberding, Minneapolis | Donald Arthur Thompson, Minne- apolis |
| Daniel Patrick, St. Paul | Lyman Barrows Warren III, St. Paul |
| Leslie John Peltz, Waconia | Eldon Wesley Wenzel, Jr., Minne- apolis |
| Eugene Franklin Peterson, Braham | Richard Delano Wessling, Minne- apolis |
| Gary Lance Peterson, Minneapolis | Walter Eugene Widerski, St. Paul |
| Rufus Fordyce Pike, Minneapolis | Suzanne Elizabeth Wilkinson, Minne- apolis |
| John Anthony Poss, Franklin | Joyce Elizabeth Wilson, Cannon Falls |
| Richard Lauren Quinlan, St. Paul | |
| Robert Gordon Ratliff, St. Paul | |
| Franklin Charles Reinhard, Minne- apolis | |
| Harold Norman Reitan, Minneapolis | |
| Christian Robert Ries, Minneapolis | |

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

| | |
|-------------------------------------|---|
| Richard Paul Ahlberg, St. Paul | Charles Theodore Stephens III, Minneapolis |
| Martin Allen Apple, St. Paul | Jean Carol Stoss, St. Paul |
| Frederica Brown Bishop, Minneapolis | Velta Egle Svinis, Minneapolis |
| Ralph Fulton LaHue, Minneapolis | Elmer H. Swensen, Jr., Minneapolis |
| Murle Kate Lien, Minneapolis | Marlene Elaine Thomas, St. Paul |
| Gerald Eugene Mishler, Minneapolis | Thomas Ralph Walther, Minneapolis |

Bachelor of Arts

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|--|---|
| John Edward Adams, St. Paul, cum LAUDE | Paul Tideman Birkeland, Bemidji |
| Maurice S. Aker, Jr., Minneapolis | Haukur Bjarni Bodvarsson, Brenna, Iceland, MAGNA CUM LAUDE |
| Elizabeth Berman Appelbaum, St. Paul, MAGNA CUM LAUDE | Robert Matthew Boeck, A.A., Mankato |
| June Ardin, Cook | Albert Edwin Booth II, Minneapolis |
| John Miller Arnold, St. Paul | Edward Wallace Brockman, Brainerd |
| Ronald Gordon Awsumb, A.A., St. Paul | Carolyn Lyell Campbell, Minneapolis |
| Barbara Jean Beaudette, St. Paul, cum LAUDE | Lawrence Walter Carlsen, Albert Lea |
| Kenneth Roger Belford, Minneapolis | Lee Weir Carlson, Minneapolis |
| William Leo Bertolero, Lead, S.D. | Walter Carl Cayeaux, A.A., Minne- apolis |
| | George William Clothier, Minneapolis |

Lawrence Michael Cramer, Minneapolis
 Robert Marshall Dahlen, Minneapolis
 Gordon Louis Davis, B.S.L., Minneapolis
 Robert Thomas Debler, Minneapolis
 Kenneth Ronald Dickinson, Minneapolis
 Doris Watt Dunham, Chicago, Ill.
 Bernard Peter Dworsky, Minneapolis
 Rosemarie Christa Eckert, West St. Paul
 Yvonne Hanson Egdahl, Appleton
 Gloria Elizabeth Epple, Minneapolis
 Donald Leslie Erickson, St. Paul
 Richard Evans III, Excelsior
 Frances Mae Falk, Sioux City, Iowa
 Henriette Meuter Foss, Rotterdam, Netherlands
 Paul Hunter Francisco, Winsted
 John Reed Fulton, Minneapolis
 Stanley Adolph Gall, Wishek, N.D., CUM LAUDE
 Sandra Ellen Goldstein, Minneapolis
 Wayne Donald Gove, St. Paul
 Eileen Frances Greshwalk, Minneapolis
 Valerie Claudia Grosenick, Alexandria
 Lawrence Gabriel Haddad, Clinton, Iowa
 Jack Edward Haines, Minneapolis
 John Watson Hamilton, Minneapolis
 Donna Faye Heaton, Belvidere, S.D.
 Robert Leonard Heiling, Minneapolis
 Lowell Adrian Henderson, St. Paul
 Robert Clifford Higgins, A.L.A., Minneapolis
 Carl Allen Holmen, Willmar
 Ellen Melinda Huse, St. Paul, MAGNA CUM LAUDE
 Berdien Fenardus Itzen, Herman
 Arvin Frank Jaskola, A.A., Minneapolis
 Harold Julius Johansen, Minneapolis*
 David Walter Johnson, Hopkins
 James Walter Johnson, Minneapolis
 Roy Marshall Johnson, Orr
 Thomas Gerald Johnson, St. Paul
 Kristjan Jonsson, A.L.A., Minneapolis
 Marianne Kaplan, A.A., Minneapolis
 David Earl Kelby, Minneapolis
 Gerald Lloyd Kelly, St. Paul
 Leslie Leroy Kimlinger, Minneapolis
 Allan Marshall Kirch, Killeen, Tex.
 Roger William Kleffman, Hibbing, CUM LAUDE
 Robert Jerome Kunz, South St. Paul
 Raymond Joseph LaLiberte, Minneapolis
 Leonard Leo LeMay, Minneapolis
 Joan Sirott Levey, St. Paul
 Lester Gordon Lien, Minneapolis, CUM LAUDE
 Marilyn Joyce Lindgren, Minneapolis
 Gordon Vincent Lins, Cologne
 Nancy Ruth Lund, Hibbing
 Rachelle Etta Margulas, St. Louis Park, MAGNA CUM LAUDE
 Emmett Wilfred Martineau, St. Paul
 Suzanne Sachiko Matsuyama, Honolulu, Hawaii
 Robert Theodore Mausser, St. Paul
 Herbert Floyd McClellan, Jr., Moberidge, S.D.
 Richard Gregory McGuire, St. Paul
 Edward Karl Miller, Winnebago
 Tom Monte Miska, Minneapolis
 Bernard Louis Mooney, Minneapolis
 Roger D. Morelan, Faribault
 Robert Jean Murphey, Minneapolis
 Lamonte Lowell Nelson, Red Wing
 Robert Lewis Norberg, Albia, Iowa
 Elizabeth Robinson Parker, Minneapolis, CUM LAUDE
 Paul Bodholdt Pedersen, A.A., Ringsted, Iowa
 Edwin Quentin Peterson, Jr., A.A., Minneapolis
 Ralph Dale Peterson, A.L.A., Minneapolis
 Robert James Pexa, Minneapolis
 David Pfankuchen, Madison, Wis.
 Fred Kenneth Picha, Jr., Minneapolis
 Charles Louis Polinsky, Duluth
 Peter Pyshko, Minneapolis
 Warner Mark Rahm, St. Paul
 Lovell Elwood Richie, Jr., Minneapolis
 Robert Bernard Rydell, Midway City, Calif., CUM LAUDE
 James Robert Sadler, Fairfax
 Stephan John Schuster, Minneapolis

* Degree conferred as of December 19, 1957

Ronald Harry Seaborg, St. Paul
Stanton C. Serline, Mora
Ann Charlotte Shepard, Minneapolis,
CUM LAUDE
Mary Sherwood, St. Cloud
Verlyn Roy Soderstrom, Lake City
Ann Speredon, Austin
Judith Ann Stevens, Minneapolis, CUM
LAUDE
Peter Monse Storm, Minneapolis, CUM
LAUDE
Dennis Walter Strid, A.A., Minne-
apolis

Marilyn Claire Sunderman, LeSueur,
CUM LAUDE
Darlene Joanne Theisen, Litchfield
Muriel Hamm Weyerhaeuser, St. Paul
Douglas Albert Whitaker, Benson
John Nelson Whiton, Minneapolis,
CUM LAUDE
Robert Edmund Wilkening, Wood-
lake
Alice Vernon Wright, Fergus Falls
Stuart Arthur Yellen, Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

Morwin T. Rockowitz, St. Paul

Bachelor of Science

Earl D. Sharp, A.A., Minneapolis

INSTITUTE OF TECHNOLOGY

Bachelor of Science

David Martin Eckblad, Red Wing,
WITH DISTINCTION

Elvis Dale Simon, Rochester, WITH
DISTINCTION

Bachelor of Aeronautical Engineering

James Richard Bogard, Mankato

Bachelor of Agricultural Engineering

Lowell Howard Moss, Rushmore
Jerrold Leslie Niemann, Ogilvie

Theodore Orville Thorson, A.A.,
Albert Lea

Bachelor of Architecture

Richard William DeLapp, B.A., Min-
neapolis
Orlen Sylvester Fjelsted, Colfax, Wis.
Bernard Michel Jacob, Minneapolis

Sebastian Isola Kola-Bankole, Nigeria
Peter Roald Lee, Deerfield, Wis.,
WITH DISTINCTION
Elmars Arturs Prieditis, Minneapolis

Bachelor of Chemical Engineering

Jacob Lazerson, Chicago, Ill.

Bachelor of Chemistry

Donald Raymond Theissen, St. Paul

Edward Thom, Jr., B.S., Minneapolis

Bachelor of Civil Engineering

Pericles Charilaos Caranicas, Athens,
Greece

Gordon Carl Frank, B.A., Winona

William Henry Jansen, Olivia

Norman Peter Janzen, Mountain Lake

Norman E. Kromer, Olivia

Lowell Edgar Odland, Detroit Lakes

Robert Lewis Ohman, Minneapolis

Donovan Loomis Olsen, Flint, Mich.

William Eugene Price, Wabasso

Dennis James Ryan, Minneapolis

Carl Edward Schultz, Pine River

Bachelor of Electrical Engineering

Leon Richard Lease, St. Cloud

Bachelor of Geological Engineering

Clarence Earl Henke, South St. Paul

Lawrence Charles Trost, St. Paul

Bachelor of Mechanical Engineering

Norman Roy Abrahamson, Appleton

LeRoy Vincent Alwin, Jr., Mound

Harold William Brewster, Windom

John Albert Clark, Minneapolis

Donald Alwood Dibbern, Luverne

Richard Henry Heath, Stillwater

Paul Maxon Hill, B.A., Excelsior

Willard Joseph Iberg, Plum City, Wis.

Frederick Velie Ingersoll, Minneapolis

Darrel Wayne Johnson, Minneapolis

Donald Keith Mayer, St. Paul

Donald George McBeath, Minneapolis

Lowell Donovan Nystrom, Fosston,

WITH HIGH DISTINCTION

Jack Oja O'Neill, Minneapolis, WITH

DISTINCTION

Maurice Lyle Peelgren, St. Paul

Charles Graydon Storms, Ada, WITH

DISTINCTION

James Drummond Swan III, St. Paul

Eugene Harold Wolske, Menomonie,

Wis.

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

Bachelor of Science

- Denis Oliver Bakke, St. Paul, Forestry
Norman David Bosch, Montevideo,
Animal Husbandry, WITH DISTINCTION
- Donald Walter Calkins, A.A., East
Chain, Soils, WITH DISTINCTION
- Philip Calvin Cowan, Mankato,
Forestry
- Gerald Wayne Emmer, McGrath,
Animal Husbandry
- Orville Edward Engelby, Sargeant,
Forestry, WITH DISTINCTION
- James Allan Esterly, Luverne, Agricul-
tural Economics
- Peter Frederick Ffolliott, St. Charles,
Ill., Forestry, WITH DISTINCTION
- Erle Rodney Geary, Pemberton, Soils
- Darrell Richard Golden, Glencoe,
Agricultural Economics
- Paul William Handy, Minneapolis,
Fishery and Wildlife Management
- Richard George Hankerson, Minnesota
Lake, Animal Husbandry
- Glenn Wallace Hawkyard, Hallock,
Forestry
- Robert Arthur Herbkersman, South-
port, Ind., Forestry
- Eldred Alden Johnson, Isanti, Forest
Management
- Beverly Jane Lemke, North St. Paul,
Home Economics
- Johng Ki Lim, A.A., Seoul, Korea,
Plant Genetics
- Clare Noland Mahannah, St. Paul,
Soils
- Franklin Scott Matheson, Minne-
apolis, Forest Management
- Robert Benhart Mattson, Aurora,
Forest Management
- James David McKay, Minneapolis,
Forest Management, WITH DISTINCTION
- James B. Monnie, Browerville, Fishery
and Wildlife Management
- Ronald Lloyd Nelson, Sandstone, Agri-
culture
- Fred Gustave Parent, St. Cloud, Forest
Management
- George David Pickett, Preston, Dairy
Husbandry
- Donald John Pluth, Estherville, Iowa,
Soils
- Gary Scott Quam, St. Paul, Agronomy
- Carl Hubert Reidel, Oak Lawn, Ill.,
Forest Management
- Charlotte Quinn Rice, St. Paul, Home
Economics
- Glenn Stanley Ryberg, Grand Meadow,
Animal Husbandry, WITH DISTINCTION
- James Ivan Sample, Jr., Spring Valley,
Animal Husbandry
- Eugene George Scheffert, New Rich-
land, Animal Husbandry
- John William Schiefelbein, Minne-
apolis, Entomology, WITH DISTINCTION
- Robert John Schutz, Mountain Lake,
Forest Management
- David Duane Speltz, Lewiston, Soils
- Norman Stewart Stone, Jr., Mosinee,
Wis., Forest Management
- Shirley Daynard Tervo, Bovey, Home
Economics
- David Bruce Thorud, St. Paul, Forest
Management, WITH DISTINCTION
- Lawrence Jacob Wille, Minneapolis,
Dairy Industry
- Shirley Ann Wold, Minneapolis,
Home Economics

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

Bachelor of Science

| | |
|--|---|
| Alvin Andrew Aho, Cook, Agricultural Education | Robert Eugene Moehrle, South St. Paul, Agricultural Education |
| Roger Nels Eklund, Stanchfield, Agricultural Education | Willard Clarence Nauman, Faribault, Agricultural Education, WITH HIGH DISTINCTION |
| Melvyn Luverne Fahning, Wells, Agricultural Education | Clayton Richard Oslund, Solway, Agricultural Education |
| Osmund Sundet Gilbertson, Spring Grove, Agricultural Education | John Leo Thell, Foley, Agricultural Education |
| Evelyn Joyce Gray, Lake City, Home Economics Education, WITH DISTINCTION | John Tauno Typpo, Floodwood, Agricultural Education, WITH DISTINCTION |
| JoyAnne Marie Johnson, Warren, Home Economics Education | Raymond Marlin White, Angora, Agricultural Education |

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

Bachelor of Agricultural Business Administration

| | |
|---------------------------------|--------------------------------|
| Robert William Moodie, St. Paul | Chester Willard Trites, Erhard |
|---------------------------------|--------------------------------|

COLLEGE OF EDUCATION

Bachelor of Science

| | |
|---|--|
| Gene Scott Anderson, Minneapolis | Virginia Eileen Dregger, Minneapolis |
| Janet Elaine Sloat Anderson, St. Paul, WITH DISTINCTION | Avalon Ione Gilbertsen, Minneapolis |
| Nancy Marie Beach, Robbinsdale | John Earl Grano, B.A., Tower |
| Ralph David Broten, B.A., Annandale | Robert Mark Grassl, Arcadia, Wis. |
| Barbara Louise Brunkow, Minneapolis | Frederick Raymond Greenberg, Minneapolis |
| Beverly Jean Zabel Carroll, Marshall | William Donald Hammel, St. Louis Park |
| Nicholas George Dionisopoulos, B.A., St. Paul | Carolyn Nella Harmelink, Rock Valley, Iowa |
| Ronald Allen Doll, Minneapolis | |

Yvonne Kallas Harvey, Minneapolis
James Edmund Hilsen, South St.

Paul, WITH DISTINCTION

Dawayn Herbert Johnson, Red Wing
Lelia Shaw Johnson, Mitchell, S.D.,
WITH DISTINCTION*

Sandra Elizabeth Johnson, Minneapolis

Janet Frances Jordan, St. Paul

Beverly Ann Jorgensen, Tyler

Lois Ann Kammeyer, St. Paul, WITH
DISTINCTION

Gudrun Gladys Knutson, Grand Forks,
N.D., WITH DISTINCTION*

Alice Margaret Kockum, Minneapolis

Lyman George Kopp, St. Paul

Eileen Carolyn Casserly Kordahl,

White Bear Lake

Edith Elinor Kottke, New Ulm, WITH
DISTINCTION

Godfrey Vilhelm Larsen, Minneapolis

Carol Ann Lehmann, Racine, Wis.*

Robert Jacob Leibel, St. Paul

Judith A. Leino, Cloquet

Ralph Edward Manning, Minneapolis

Joyce Markovich, Nashwauk

Betty Jo McKim, A.A., Houston, Tex.*

Delores Ann McManama, Minneapolis*

Joan Judith Miller, Western Springs,
Ill., WITH HIGH DISTINCTION

Joan Lucille Morio, Minneapolis*

Zita Mulligan, Brainerd, WITH DIS-
TINCTION

William Alan Murray, Ebro

Carolyn Ann Nelson, St. Paul

Mack A. Nettleton, St. Paul

Clarice Ann Smid Nickle, R.N.,

George, Iowa, WITH DISTINCTION*

Donovan Doyle Peterson, Northfield

Jeanne Sylvia Polivchak, Minneapolis

Charles Frederick Prunty, Owatonna

Jean Carolyn Reys, St. Paul, WITH

DISTINCTION

Gerald Robert Reynolds, South St.

Paul

Jerry Lee Rodberg, Minneapolis

Robert Harold Schmidt, West St. Paul

LeRoy Bernard Schwan, Osceola, Wis.

Gail Carolyn Sherman, Libby, Mont.

Geraldine Ann Livgard Shoquist, St.

Paul, WITH HIGH DISTINCTION

Roy Marvin Steffen, Raymond

Naomi Eiko Tanikawa, Long Beach,
Calif.*

Ronald John Tarro, Nashwauk

Joan Ellen Carlin Wallin, Minneapolis

Gene Paul Wicklund, B.A., Minne-
apolis

Marjorie Ann Mortenson Williamson,
Benson

Master of Education

Charles Milo Christiansen, B.A.,
Washington, D.C.

Dorothy Joan Lintula, B.S.N., Duluth*

Merle Wilk McFeters, B.S., Minne-
apolis*

Robert Felix McGuire, B.S., Minne-
apolis

Irene Kate Poppens, B.S.N., Lennox,
S.D.*

Elagrace Reekie, B.S.N., Seattle,
Wash.*

Thora Ethel Rose, B.S., Minneapolis*

Mark Michael Sivanich, A.A., B.S.,
Minneapolis

Richard LeRoy Wilson, B.S., Wayzata

* Nursing Education Curriculum

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Nana Lowe Anderson, St. Paul
John Richard Barnum, North St. Paul
James Richard Bogard, Mankato
Hyman Jerome Brand, A.A. Minneapolis
Kenneth Leland Bruce, Minneapolis
Lloyd Lawrence Brutlag, Henning
Robert E. Carlson, Minneapolis
Roger Bernard Carlson, Minneapolis
Edmund Lee Fuller, Pine River
Paul C. Gantrii, A.L.A., Minneapolis
Graham John Goeson, Moorhead
George Timothy Hagen, Minneapolis
John Cornelius Hanson, Granite Falls
Robert Evan Jackson, Minneapolis
David Bradley Johnson, Crosby
Roger Lewis Knutson, Minneapolis
James Richard Kordahl, Mahtomedi
Francis Burdette Kramer, Strawberry Point, Iowa
Gregory John Kranz, St. Paul
Leo L. Lamb, St. James, WITH DISTINCTION
Ernest Albert Lehmann, Boyd
Michael William Lepich, Minneapolis
Richard Ellis Lurie, Minneapolis
Edward Carl Menzel, Alexandria
Donald Calvin Mills, Owen, Wis.
Robert Gaylord Monson, Minneapolis

Irving Moses, A.A., Minneapolis
Lowell Howard Moss, Rushmore
Edward Denny Murphy, St. Paul
Frederic Joseph Nimis, St. Paul
Lowell Donovan Nystrom, Fosston, WITH DISTINCTION
Raymond Leonard Olson, Colfax, Wis.
Robert Gilbert Olson, Edina
Elmer Donald Oyen, Benson
Carlyle Garvin Pederson, Greenbush
Anthony Peter Petrella, Biwabik, WITH DISTINCTION
Leo August Pierce, St. Paul
Earl James Rodine, Minneapolis
James Walter Sampair, St. Paul
Harold Edwin Schmidt, St. Paul
Larry Gene Sibley, Plano, Ill.
George Roy Slentz, Minneapolis
Darrell Alfred Sobraske, Richfield
Warren Richard Spannaus, St. Paul
Ronald Henry Stocker, Shakopee
Donald William Swanson, Minneapolis
Kenneth Stanley Thompson, Madelia
Robert George Trembath, Marble
David Lee Wernecke, Rochester
Patricia Eleanor Whalen, A.L.A., Minneapolis, WITH DISTINCTION
Peter Edward Wielinski, Little Falls

Bachelor of Science in Economics

Jack Andrew Ocenasek, Olivia

Wendell Lee Peterson, Emmons

LAW SCHOOL

Bachelor of Laws

Roger Alexis Boursier, B.S.L., St. Paul
Bernard Dinner, B.A., Minneapolis
Ronald George Gandrud, B.A., Greenwood
George Calvin Hanson, B.A., B.S.L., Minneapolis

Ross MacLean Muir, B.A., Jackson
Maurice Michael O'Connor, B.S.L., Dent
John Garris Snowfield, B.A., Langdon, N.D.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing*

- Marlyn Ann Anderson, A.A., Britt,
Iowa, WITH DISTINCTION
- Barbara Ruth Beisswenger, New
Brighton, WITH DISTINCTION
- Patricia Joan Black, Minneapolis
- Barbara Ruth Bunker, Aberdeen, S.D.
- Jean Madill Burroughs, Minneapolis,
WITH DISTINCTION
- Barbara Marie Carlson, Alexandria,
WITH HIGH DISTINCTION
- Catherine Elizabeth Cartwright, Min-
neapolis
- Yvonne Lorree Courteau, Minneapolis
- Laurie Jo Cromwell, Minneapolis
- Patricia Anne Decker, Davenport,
Iowa
- Sandra Joy Eyres, LeMars, Iowa, WITH
DISTINCTION
- John Elbert Freeman, Willmar
- Zelma Clara Fulbright, St. Paul
- Marjorie Roberta Griswold, Crosby
- Betty Jean Hanson, Clarissa, WITH
HIGH DISTINCTION
- Nancy Pearson Hanson, Minneapolis,
WITH HIGH DISTINCTION
- Carol Louise Johnson, Virginia, WITH
DISTINCTION
- Paula Fay Jones, Rice Lake, Wis.
- Elisabeth Hannah Krause, LaCrosse,
Wis.
- Susan Jane Krause, Jackson, WITH
HIGH DISTINCTION
- Kathleen Nancy Krocak, Minneapolis,
WITH DISTINCTION
- Doris Linnea Leaf, Stratford, Iowa,
WITH HIGH DISTINCTION
- Barbara Ann Loder, Cooperstown,
N.D.
- Mary Ann Lunday, Fargo, N.D.
- Carolyn Jane Mosbey, Minneapolis,
WITH HIGH DISTINCTION
- Janet Ann Mott, Minneapolis
- Cherall Rae Musland, Minneapolis,
WITH DISTINCTION
- Marilyn Ruth Nelson, Winona
- Joanne Beverly Nessly, Robbinsdale
- Gwili Mae Olson, Minneapolis
- Mary Ann Pollard, Minneapolis
- Janet Elizabeth Reed, Minneapolis,
WITH DISTINCTION
- Carol Emily Stageberg, Wayzata
- Solveig Kristine Strand, Austin
- Mary Almina Thomas, Mora, WITH
HIGH DISTINCTION
- Mary Jo Tobola, Jackson, WITH DIS-
TINCTION
- Janet Barbara Ulrich, Stillwater
- Carol Ann Wennerstrom, Eau Claire,
Wis., WITH HIGH DISTINCTION
- Dianne Ellisen Werger, St. Paul
- Karen Lenore Whitmore, Minneapolis

Bachelor of Science in Nursing Administration

- Gladys May Dykstra, Whitinsville,
Mass., WITH DISTINCTION
- Marjorie Ellen Nordeen, Mora, WITH
DISTINCTION
- Elva B. Norden, Minneapolis
- Shirley Priscilla Powers, Minneapolis
- Juanita Ann Reynolds, Austin, WITH
DISTINCTION
- Virginia Margaret Schmidt, Minne-
apolis, WITH HIGH DISTINCTION

* These degrees are conferred subject to the satisfactory completion of nursing practice prior to June 14, 1958

Bachelor of Science

Janet May Anderson, Minneapolis,
Public Health Nursing
Eleanor Johann Haase, G.N., St. Paul,
Public Health Nursing
Alice Marion Hellberg, Brainerd, Med-
ical Technology*
Joyce Victoria Malm, Warren, Public
Health
Joan Snell, San Diego, Calif., Public
Health Nursing

Margrethe Kathryn Sorensen, Minne-
apolis, Public Health Nursing
Margaret Lee VanderKraan, Prairie
City, Iowa, Public Health Nursing
Lois Jean Walstedt, Mound, Occupa-
tional Therapy, WITH DISTINCTION
Joan Louise Zittleman, Spring Valley,
Medical Technology, WITH DISTINC-
TION*

Master of Public Health

Lester Alton Sanger, B.S.C.E., Lincoln, Neb.

GRADUATE SCHOOL

Master of Arts

Helen Bernice Aasen, Minneapolis
B.A. '50, Central Washington College of Edu-
cation. Field of Concentration: Curriculum
and Instruction.

Irene Bergliot Andresen, Minneapolis
B.S. with distinction '49, University of Min-
nesota. Field of Concentration: Child Welfare.

Martin Bobgan, Minneapolis
B.A. '54, B.S. '56, University of Minnesota.
Field of Concentration: Educational Adminis-
tration.

John Eugene Bowers, Ellsworth
B.A. '51, College of St. Thomas. Field of
Concentration: Psychology.

Carl Milton Brostrom, St. Peter
B.S. '49, Gustavus Adolphus College. Field
of Concentration: Mathematics.

Thomas Edward Carroll, Hammond,
Ind.
B.A. with honors '56, Indiana University.
Major: Sociology. Minor: Political Science.
Thesis: A Comparative Study of the Attitudes
Towards Social Institutions of a Group of
Farm Operators and a Group of Urban Prop-
rietors.

Richard John Cody, London, England
B.A. '52, University of London. Field of
Concentration: English.

Jack Lovell Cook, Albert Lea
B.S. '49, Winona State Teachers College.
Field of Concentration: Industrial Education

Ronald Gary Corwin, Waterloo, Iowa
B.A. with high honors '54, Iowa State Teach-
ers College. Major: Sociology. Minor: Educa-
tion. Thesis: Social Mobility: A Dimension
of Migration.

Russell Harold Cunningham, Morro
Bay, Calif.
B.A. with distinction '56, San Jose State Col-
lege. Field of Concentration: Industrial Rela-
tions.

Glenn Harvey Daniels, Morris
B.S. '41, Ellendale State Normal and Indus-
trial College. Field of Concentration: Indus-
trial Education.

Michael Marcus DeMann, Minne-
apolis
B.A. '55, University of Minnesota. Field of
Concentration: Psychology.

* These degrees are conferred subject to the satisfactory completion of practical work prior to June 14, 1958

- George Deretich, Hibbing
B.S.L. '55, University of Minnesota. Field of Concentration: Industrial Relations.
- Rita Bankovics Drone, Minneapolis
B.S. with distinction '56, University of Minnesota. Field of Concentration: Library Science.
- Adella Bennett Espelien, Windom
B.S. with high distinction '56, University of Minnesota. Field of Concentration: Educational Psychology.
- John Edgar Galejs, Minneapolis
B.A. '53, M.A. '55, University of Minnesota. Field of Concentration: Library Science.
- Jean Johnson Gandesbery, Minneapolis
B.A. '53, University of Minnesota. Field of Concentration: English.
- Robert Otto Imm, Baltimore, Md.
B.S. '50, University of Minnesota. Field of Concentration: Industrial Education.
- Gladys Chalmers Johnston, Mayville, N.D.
B.A. *magna cum laude* '51, Luther College. Field of Concentration: Curriculum and Instruction.
- Marjorie Staack Julkowski, Port Huron, Mich.
B.A. *cum laude* '49, University of Minnesota. Field of Concentration: Child Welfare.
- John Frederick Kaufman, St. Paul
B.A. '53, B.S. '55, University of Minnesota. Field of Concentration: Educational Administration.
- Warren Glenford Kinzey, Chicago, Ill.
B.A. '56, University of Minnesota. Major: Anthropology. Minor: Biostatistics. Thesis: Age Trends in Soft Tissue Anthropometry with Particular Reference to the 60-69 Age Group.
- Yvonne Mathews Klein, New York, N.Y.
B.A. *magna cum laude* '56, Queens College. Field of Concentration: English.
- Marcella Dorothy Knapp, St. Paul
B.S. with high distinction '36, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- John H. Kruger, Jr., Minneapolis
B.Min.E. '55, University of Minnesota. Field of Concentration: Industrial Relations.
- Richard William Mahlman, Faribault
B.A. '44, North Central College. Field of Concentration: Psychology.
- James Gordon Martin, Harvey, N.D.
B.S. '51, University of North Dakota. Field of Concentration: Psychology.
- Frances Claire Mathison, Minneapolis
B.A. '55, St. Cloud State Teachers College. Field of Concentration: Psychology.
- Donald Chester Mayer, New Richmond, Wis.
B.E. '53, Wisconsin State College at Stevens Point. Field of Concentration: Educational Administration.
- Donald Herman Moersch, Rochester
B.A. '52, University of Minnesota. Field of Concentration: Industrial Relations.
- Keiko Nambara, Tokyo, Japan
B.A. '54, St. Olaf College. Field of Concentration: Industrial Relations.
- Orville William Nelson, Stanchfield
B.S. '56, Stout Institute. Field of Concentration: Industrial Education.
- Roger Daniel Newell, Harmony
B.A. *magna cum laude* '49, University of Minnesota; LL.B. '52, Harvard University. Field of Concentration: Economics.
- Jacqueline Jean Oatman, Flint, Mich.
B.A. with honor '51, Michigan State College. Field of Concentration: Child Welfare.
- Myron Donald Olson, Hitterdal
B.A. '55, Concordia College. Field of Concentration: Physical Education.
- Jack Arthur Ott, Minneapolis
B.A. '51, Augsburg College; B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Howard Erwin Pearson, Minneapolis
B.A. '53, Augsburg College. Field of Concentration: Physical Education.

Kenneth George Robbins, Minneapolis

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

Maude Todd Robinson, St. Paul

B.S. '29, University of Minnesota. Field of Concentration: Educational Psychology.

Roger Nylén Sherman, Wethersfield, Conn.

B.A. '56, University of Connecticut. Field of Concentration: Speech.

Sister St. Dominic Rooney, St. Paul

B.A. '50, College of St. Catherine. Field of Concentration: Spanish.

Hilma Regine Skalbeck, Minneapolis

B.A. '22, St. Olaf College. Field of Concentration: Education.

Claire Vedensky, Cleveland, Ohio

B.A. '54, Stanford University. Field of Concentration: Psychology.

Robert Arnold Walker, St. Paul

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

Samuel Eugene Wallace, Kansas City, Mo.

B.A. '56, William Jewell College. Major: Sociology. Minor: Philosophy. Thesis: The Role of Reference Group Behavior in Career Development.

Burton Jasper Weber, University City, Mo.

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

Joseph Carl Wenninger, Roseville

B.A. '43, Kletzing College. Field of Concentration: Educational Administration.

Master of Arts in Public Administration

Klaus Jacob Herrmann, Minneapolis

B.A. '54, University of Minnesota. Field of Concentration: Public Administration.

Master of Business Administration

Donn Paul Barber, Minot, N.D.

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

Roger Morris Sampson, Minneapolis

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

Master of Forestry

James Allen Salzman, Racine, Wis.

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

Master of Science

Douglas George Anderson, International Falls

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

Roger Vincent Anderson, St. Paul

B.A. '53, Augsburg College. Major: Plant Pathology. Minor: Plant Genetics. Thesis: The Effects of Ionizing Radiations on the Host-Parasite Relationships of Stem Rust of Wheat.

Don Howard Boelter, Lamberton

B.S. '55, Iowa State College. Major: Soils. Minor: Physical Chemistry. Thesis: The Influence of Calcium and Magnesium Level, Fibrous Root Growth, Manure, and Fertilizer on the Stability of Soil Aggregates.

Orvin Charles Burnside, Hawley

B.S. '54, North Dakota Agricultural College. Major: Agronomy. Minor: Agricultural Botany. Thesis: Response of Weed and Crop Species to 4-(2,4-DB) and 4-(MCPB).

Janet Louise Coyle, Medford, Ore.

B.S. '56, Oregon State College. Field of Concentration: Animal Husbandry.

Kenneth Edward Egertson, Jackson

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

Richard Romaine Fox, Manchester, Conn.

B.S. with honors '56, University of Connecticut. Field of Concentration: Animal Husbandry.

Pacy Friedman, Duluth

B.S. cum laude '55, University of Minnesota. Major: Speech Pathology. Minor: Educational Psychology. Thesis: A Study of the Listening Ability of Children with Defective Articulation.

Monte Deane Gruett, Minneapolis

B.S. '55, Morningside College. Field of Concentration: Organic Chemistry.

Ragheb Nazmi Kamal, Nablus, Jordan

D.V.M. '50, Cairo University. Field of Concentration: Veterinary Bacteriology.

Makoto Kawase, Tokyo, Japan

B.A. '51, M.S. '54, University of Tokyo. Major: Horticulture. Minor: Botany. Thesis: The After-Ripening of Dormant Apple Seeds in Relation to Auxin Content.

James Fredrick Kneller, Freeport, Ill.

B.S. '53, University of Illinois. Field of Concentration: Organic Chemistry.

Mills Thomas Kneller, Freeport, Ill.

B.S. '53, University of Illinois. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Cleavage of 2,5-Diphenyl-1,4-Dithiadene with Butyl Lithium.

John Stuart Allan Landrey, Kei Road, Union of South Africa

B.Sc.(Agric.) '50, M.Sc. '56, University of Pretoria. Field of Concentration: Animal Husbandry.

Jung Kyoo Lim, Seoul, Korea

M.D. '53, Seoul National University. Field of Concentration: Pharmacology.

Hernan Navarrete, Santiago, Chile

Ing. Agron. '47, University of Chile. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of the Farm Credit System of Chile.

George Leslie Stewart, Jr., Altadena, Calif.

B.S. '56, Utah State Agricultural College. Field of Concentration: Dairy Husbandry.

George Robert Supp, Ansonia, Conn.

B.A. '55, University of Connecticut. Field of Concentration: Analytical Chemistry.

Joseph Porter Woodring, St. Paul

B.S. '54, Pennsylvania State University. Major: Entomology. Minor: Zoology. Thesis: The Salticidae of Minnesota.

Master of Science in Aeronautical Engineering

John Allen Paulson, Minneapolis

B.Aero.E. with distinction '55, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: The Effect of the Phase Angle Between Rolling and Yawing on the Response of a Cross-Coupled Airplane to a Lateral Gust.

Kenneth Orval Thompson, Drummond, Wis.

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

Master of Science in Agricultural Engineering

Bruce Herman Fiedler, Osseo, Wis.
B.Ag.E. with distinction '56, University of Minnesota. Field of Concentration: Agricultural Engineering.

Edward Milo Norum, Minneapolis
B.Ag.E. '53, University of Minnesota. Field of Concentration: Agricultural Engineering.

Master of Science in Anesthesiology

Joseph John Buckley, Edina
B.A. '44, Dartmouth College; M.D. '46, New York Medical College. Major: Anesthesiology. Minor: Physiology. Thesis: Cross Circulation: Metabolic and Hemodynamic Alterations Associated with Its Use in Animals and Man.

Earl Arthur Schultz, Winnipeg, Manitoba, Canada
M.D. '50, University of Manitoba. Major: Anesthesiology. Minor: Physiology. Thesis: Hypothermia: Studies in Respiratory, Electrolyte, and Circulatory Phenomena During Its Utilization in the Human.

Master of Science in Chemical Engineering

Dean Lyle Kavanagh, St. Cloud
B.S. with distinction '56, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Predicting the Closed Loop Parameters of a Pneumatic Control System.

Master of Science in Electrical Engineering

Charles Albert Stolte, Minneapolis
B.S. with distinction '55, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Investigation of the Carbon-Nickel System as Applied to the Oxide Coated Cathode.

Master of Science in Mechanical Engineering

Chong-wei Chu, Republic of China
B.S. '53, Taiwan College of Engineering. Field of Concentration: Mechanical Engineering.

Walter Eugene Edelman, Jr., Minneapolis
B.M.E. with distinction '56, University of Minnesota. Major: Mechanical Engineering. Minor: Electrical Engineering. Thesis: The Dynamics of Seat Belt Design.

Hsue-Fu Lee, China

Graduate '48, Central Institute of Technology (China). Field of Concentration: Mechanical Engineering.

Arthur Edward Neuman, Mankato
B.S. '49, Iowa State College. Field of Concentration: Mechanical Engineering.

Theron Wright, Minneapolis
B.Aero.E. with distinction '51, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: An Experimental Investigation of Orifice Coefficients in Pulsating Flow.

Master of Science in Medicine

David Gold, Minneapolis

B.A. *magna cum laude* '46, B.S. '47, M.D. '50, University of Minnesota. Major: Medicine. Minor: Pathologic Anatomy. Thesis: A Correlation of Electrocardiographic and Pathologic Features of Healed Anterior Myocardial Infarction.

Helmut Siecke, Blomberg, Germany

M.D. '51, University of Frankfurt. Major: Medicine. Minor: Physiology. Thesis: Relation of the P-Q Interval to the Difference in Pressure Across the Mitral Valve and to the Amplitude of the First Heart Sound in Dogs with Complete Atrioventricular Block.

Master of Science in Mining Engineering

Thys Brentwood Johnson, Duluth

B.S. with distinction '56, University of Minnesota. Major: Mining Engineering. Minor: Mechanics and Materials. Thesis: Analysis of the Effect of Variation in Diameter and Cutting Speed on Instantaneous Stress Fluctuations in a Rotary Rock Cutting Tool.

Master of Social Work

Ronald Lowell Brazman, Minneapolis

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

Richard Andrew Flesher, St. Paul

B.A. '53, College of St. Thomas. Field of Concentration: Social Work.

Certificate of Specialist in Education (School Administration)

William James Kaczowski, Gilbert

B.S. '40, Winona State Teachers College; M.A. '52, University of Minnesota. Major: Educational Administration.

Jerome Ogdon Webster, Winnebago

B.A. '40, Gustavus Adolphus College; M.A. '51, University of Minnesota. Major: Educational Administration.

Doctor of Philosophy

Donald Edward Anderson, Wells

B.S. with high distinction '52, M.S. in E.E. '54, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Electrolysis and the Activation Processes in the Oxide Coated Cathode. Major Adviser: Prof. W. G. Shepherd.

Richard Lane Crowell, Minneapolis

B.A. *cum laude* '52, University of Buffalo; M.S. '54, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: The Influence of Coxsackie B-3 Virus Infection on Cathepsin and Transaminase Activities of Mammalian Cells in Continuous Culture. Major Adviser: Dr. J. T. Syverton.

Alfredo Tierrafria Campos, Mexico
City, Mexico

B.S. '49, National College of Agriculture (Mexico); M.S. '50, University of Minnesota. Major: Plant Pathology. Minor: Plant Genetics. Thesis: The Importance of Stem Rust Races in Relation to the Production of Rust Resistant Wheats for Mexico. Major Advisers: Profs. Helen Hart and J. J. Christensen.

Edward Robert Drechsler, St. Paul

B.S. '49, M.S. '52, Iowa State College. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Catalytic Activity of Carboxypeptidase-Degraded Aldolase. Major Adviser: Prof. P. D. Boyer.

**Edward Charles Frederick, Madison
Lake**

B.S. with high distinction '54, M.S. '55, University of Minnesota. Major: Dairy Husbandry. Minors: Veterinary Anatomy and Veterinary Physiology. Thesis: Sexual Performance in Dairy Bulls as Related to Frequency of Ejaculation. Major Adviser: Prof. W. E. Petersen.

**Muthuswamy Govindan, Tirukoilur,
Madras, India**

B.Sc.Ag. '48, University of Madras; A.I.A.R.I. '51, Indian Agricultural Research Institute. Major: Entomology. Minor: Agricultural Biochemistry. Thesis: The Influence of Temperature and Exposure Time on the Effectiveness of Carbon Disulphide Against the Confused Flour Beetle. Major Adviser: Prof. L. K. Culkomp.

**Chadwick John Haberstroh, Livingston,
Mont.**

B.A. magna cum laude '48, University of Minnesota; M.A. '50, Columbia University. Major: Economics. Minors: Political Science and Psychology. Thesis: Processes of Internal Control in Firms. Major Adviser: Prof. Leonid Hurwicz.

**Kenneth Forbes Hosie, Largs,
Scotland**

M.R.C.V.S. '50, University of Glasgow; B.Sc. '51, University of London. Major: Physiology. Minor: Biophysics. Thesis: Studies on the Mechanics of the Aorta *in vivo*. Major Advisers: Drs. M. B. Visscher and C. F. Code.

**Vishwanath Jeewanrao Hudli,
Belgaum, India**

B.Sc.(Agr.)Hons. '52, University of Karnatak; M.S. '54, M.A. '56, University of Minnesota. Major: Education. Minor: Dairy Husbandry. Thesis: A Program for Vocational Agriculture in India. Major Adviser: Prof. M. J. Peterson.

Harry Edward Huls, Deer Creek

B.S. '45, St. Cloud State Teachers College; M.A. '48, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: State Limitations on Local Public School Expenditures in the United States. Major Adviser: Prof. O. E. Domian.

**Newton Elder James, Mason City,
Iowa**

B.S. '39, United States Military Academy; M.A. '51, Montana State University. Major: Educational Psychology. Minor: Education. Thesis: Influence of Learner's Choice on the Effectiveness of Alternate Modes of Presentation of Learning Material. Major Adviser: Prof. G. M. A. Mork.

Elmer Carl Johnson, Corvallis, Ore.

B.S. '47, Oregon State College. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance Studies, Including Reaction to Certain Foliage Diseases, in Alfalfa. Major Adviser: Prof. W. M. Myers.

**Lemont Burwell Kier, Cleveland
Heights, Ohio**

B.S. in Pharm. '54, Ohio State University. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: Structural Studies of Related Argemone Alkaloids. Major Adviser: Prof. T. O. Soine.

Carl Oscar Loreen, Pullman, Wash.

B.S. '30, M.S. '49, State College of Washington. Major: Education. Minor: Agricultural Education. Thesis: An Examination of Adult Education in Vocational Agriculture in the United States. Major Adviser: Prof. M. J. Peterson.

Borge Gedso Madsen, Berkeley, Calif.

Graduate '48, University of Copenhagen. Major: Comparative Literature. Minor: Scandinavian. Thesis: The Impact of French Naturalists and Psychologists on August Strindberg's Plays of the 1880's and Early 1890's. Major Adviser: Prof. Alrik Gustafson.

**Owen Bertwell Mathre, Wilmington,
Del.**

B.A. cum laude '51, Harvard College. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Lead-Dithizone Equilibria in Water-Carbon Tetrachloride Systems. Major Adviser: Prof. E. B. Sandell.

**Edmund Jerome McCarthy, South
Bend, Ind.**

B.S. '50, Northwestern University; M.A. '54, University of Minnesota. Major: Business Administration. Minor: Industrial Engineering. Thesis: An Analysis of the Use of Marketing Research in Product Development. Major Adviser: Prof. R. J. Holloway.

Joseph Donald Novak, Minneapolis

B.S. '52, M.A. '54, University of Minnesota. Major: Education. Minor: Botany. Thesis: A Comparison of Two Methods of Teaching a College General Botany Course. Major Advisers: Profs. P. O. Johnson and J. W. Hall.

August Benhart Salmela, Grand Rapids

B.S. '43, M.S. '47, University of Minnesota. Major: Animal Husbandry. Minor: Plant Genetics. Thesis: The Relationship Between Environment and Heredity as They Affect Feed Lot Performance and Carcass Characteristics in Swine. Major Advisers: Profs. W. E. Rempel and L. E. Hanson.

Robert Earl Schilson, Carthage, Ill.

B.S. with honors '50, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: Study of Intraparticle Diffusion Effects in a Gas Phase Catalytic Reaction. Major Adviser: Prof. N. R. Amundson.

Louis Albert Scipio, St. Paul

B.S. with highest honors '42, Tuskegee Institute; B.C.E. '48, M.S. in C.E. '50, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: A Study of Non-Uniform Flat Plates Supported on Non-Equidistant Vertical Supports. Major Adviser: Prof. Paul Andersen.

Gale LaVerne Sperry, Edina

B.S. '43, M.Ed. '49, University of Minnesota. Major: Education. Minor: Music. Thesis: A Study of Music Education Graduates from the University of Minnesota (1947-56) with Particular Reference to Their Participation and Persistence in the Profession. Major Adviser: Prof. G. M. A. Mork.

Melvin Philip Stulberg, Duluth

B.Chem. '49, M.S. '55, University of Minnesota. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: The Participation of Adenosine Triphosphate in Protein Synthesis. Major Adviser: Prof. P. D. Boyer.

Donald Adolph Swenson, Hopkins

B.S. '53, University of Alabama; M.S. '56, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Proton Proton Scattering at 40 Mev. Major Adviser: Prof. L. H. Johnston.

Wendell Monson Swenson, St. Peter

B.A. '42, Gustavus Adolphus College; M.A. '50, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: A Study of Death Attitudes in the Gerontic Population and Their Relationship to Certain Measurable Physical and Social Characteristics. Major Adviser: Prof. S. R. Hathaway.

Edgar Lewis Turcotte, Carlton

B.A. '51, M.S. '57, University of Minnesota. Major: Plant Genetics. Minor: Botany. Thesis: A Cytogenetic Study of Certain Translocation Intercrosses Involving the Same Chromosomes in Maize. Major Adviser: Prof. C. R. Burnham.

George Thomas Vane, St. Paul

M.A. '48, University of Chicago. Major: English. Minor: History. Thesis: The Father-Figure in Eighteenth Century English Comedy. Major Adviser: Prof. R. E. Moore.

Doctor of Philosophy in Surgery

J. Bradley Aust, Minneapolis

M.D. '49, University of Buffalo; M.S. '57, University of Minnesota. Major: Surgery. Minor: Physiology. Thesis: Kinetics of Distribution of Various Tagged Substances in Endotoxin-Produced Shock. Major Adviser: Dr. O. H. Wangensteen.

Academic Costume

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

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

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

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

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

(In the order of march)

| | |
|--|--------------------|
| General Extension Division | black |
| General College | crimson and white |
| College of Science, Literature, and the Arts | white |
| University College | old gold and white |

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

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



UNIVERSITY OF MINNESOTA

Senior Reception

March 1958

- The members of the Senior Class, their relatives, and friends are invited by President and Mrs. James Lewis Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held in the main ballroom of the Coffman Memorial Union.
- Those in the receiving line will be President and Mrs. Morrill, Mr. Gary Fileman, Vice-President, All-University Congress, and Mr. Terry Olofson, President, Coffman Union Board of Governors.
- Assisting in the Reception are members of the Union Board of Governors and its committees. These students wear maroon and gold ribbons.
- All guests are urged to register at the appropriate tables. The signed pages will be bound and preserved by the class of 1958.
- Punch will be served. Members of the Union Board of Governors and its committees will preside at the punch tables.

THE
UNIVERSITY OF MINNESOTA

Announces Its

June Commencement

1958



MEMORIAL STADIUM
SATURDAY EVENING, JUNE 14
AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Clarence E. Larson, Assistant Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and seventh birthday. As from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded more than 135,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to more than 25,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members, who are county agents, home agents, and recreation and health consultants, give effective aid and assistance to citizens of the state in their very homes.

But the University of Minnesota, like all great universities, has expanded far beyond its early teaching and training programs. In its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, heart surgery, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, and 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 University Artists Course, the Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital to be constructed and for the great Mayo Memorial building to be completed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart diseases. Further contributions are making it possible for the University to build the Masonic Memorial Cancer Hospital and will make it possible, in the near future, to build the Veterans of Foreign Wars Cancer Research Center.

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

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

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

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

The summary financial statement of 1956-57 showed that the University received \$63,563,590.75 and spent \$63,559,225.93. This includes, of course, \$11,094,272.92 received from student tuition and fees, hospital and other departmental receipts; \$1,287,807.36 from intercollegiate athletics; \$11,900,800.04 from such services as dormitories and dining halls, printing, the laundry, University Press, Concerts and Lectures, University Theater, and Health Service, and from the revolving funds; and \$13,881,776.12 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research prizes, scholarships, and the care of the sick, as well as from the Permanent University Fund derived from land set aside by the Federal Government, and the occupational tax on iron ore. Also, \$2,269,805.06 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$63,559,047.72, which the University received for 1956-57, \$23,124,586.22 came from the state.

All students at the University, their families and friends are invited to continue their enthusiasm and interest in the University of Minnesota. Graduates are especially urged to identify themselves with the 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 *

ASSEMBLING OF THE AUDIENCE: As candidates for degrees and their friends and relatives reach the Minneapolis Campus of the University this evening from 7:00 to 7:30 p.m., they will hear the Frances Miller Brown Memorial Bells played from Northrop Memorial Auditorium, Miss Kathryn A. Simpson, SLA '58, Carillonneur. No seats for the Commencement Exercises in Memorial Stadium are reserved. All open entrances on the east and south sides of the Stadium may be used.

PRELUDE CONCERT: From 7:30 to 8:00 p.m., the University of Minnesota Concert Band Ensemble, Dr. Gale L. Sperry, Instructor in Music and Bandmaster, conducting.

| | | |
|--------------------------------|---------|------------------------|
| "Youth Triumphant" Overture | - - - - | Henry Hadley |
| "Overture for Band" | - - - - | Felix Mendelssohn |
| "Suite of Old American Dances" | - - - | Robert Russell Bennett |
| "Holiday for Winds" | - - - - | Glenn Osser |

PROCESSIONAL: Dr. Sperry conducting.

| | | |
|---|-------|-----------------|
| Entrance and March of Peers from "Iolanthe" | - - - | Arthur Sullivan |
| Huldigungsmarsch from "Sigurd Jorsalfar" | - - - | Edvard Grieg |

PROCESSION: The procession, made up of Regents, faculty members, and candidates for degrees, will march from Northrop Field and will enter the Stadium at exactly 8:00 p.m. The line of march will be in the following order: Department of Military Science and Tactics; General Extension Division; General College; College of Science, Literature, and the Arts; University College; Institute of Technology; Institute of Agriculture; College of Education; School of Business Administration; Law School; College of Veterinary Medicine; School of Dentistry; College of Medical Sciences; and the Graduate School. University faculty members, Regents, and distinguished guests will be last in the line of march. Marshals will be Professor Wendell L. Bartholdi, D.D.S., School of Dentistry; Assistant Dean Roger B. Page, Ph.D., College of Science, Literature, and the Arts; and Professor George W. Mather, Ph.D., College of Veterinary Medicine.

PRESENTATION OF COLORS: Following the procession, the color guard, made up of University Army, Navy, and Air ROTC Cadets and Midshipmen,

* In the event of rain, Commencement Exercises will be held in the basketball section of Williams Arena. Because of the limited number of seats available, only the members of the graduating class and a restricted number of their guests who have been issued special guest cards will be admitted. Only 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

will enter the Stadium. The audience will then rise and remain standing for the National Anthem and for the Invocation.

THE NATIONAL ANTHEM: The entire audience, standing, and Professor Roy A. Schuessler, M.M., Department of Music, soloist.

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

INVOCATION (the audience still standing): The Reverend Oviatt Desmond, Adviser to Congregational Students and Staff Members on the Minneapolis Campus of the University.

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

CONFERRING OF ROTC CERTIFICATES: Vice President Malcolm M. Willey, Ph.D., Academic Administration, will introduce Colonel Dean M. Benson, USA, Professor of Military Science and Tactics; Colonel Robert O. Bowen, USN, Professor of Naval Science; and Colonel Robert D. McCarten, USAF, Professor of Air Science, who will present the candidates for commissions in their respective branches of the Armed Services. Certificates of ROTC Completion will be presented by President Morrill.

CONFERRING OF DEGREES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Morrill the candidates for certificates and degrees. They are, in order of their introduction: Assistant Dean Huntington Miller, LL.B., General Extension Division; Dean Horace T. Morse, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts and for University College; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Harold Macy, Ph.D., Institute of Agriculture; Associate Dean Marcia Edwards, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Dean William B. Lockhart, S.J.D., Law School; Dean William T. S. Thorp, D.V.M., College of Veterinary Medicine; Associate Dean Marion W. McCrea, D.D.S., School of Dentistry; Dean Harold S. Dichl, Ph.D., College of Medical Sciences; Dean Theodore C. Blegen, Ph.D., Graduate School.

Order of Events

SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION: Dr. Edwin L. Haislet, Ed.D., Executive Secretary.

PRESENTATION OF DIPLOMAS: With Assistant Dean of Students Martin L. Snoke, Ph.D., presiding, all members of the June graduating class will pass across the stage in columns of four and will receive their diplomas. Assisting the deans of the several colleges or their representatives in the presentation of diplomas are: Assistant Professor Robert C. Slater, B.S., General Extension Division; Associate Dean Alfred L. Vaughan, Ph.D., General College; Assistant Dean Russell M. Cooper, Ph.D., College of Science, Literature, and the Arts and University College; Associate Dean Benjamin J. Lazan, Ph.D., Institute of Technology; Assistant Dean Austin A. Dowell, Ph.D., Institute of Agriculture; Associate Professor William H. Edson, Ph.D., College of Education; Assistant Dean Reuel I. Lund, Ph.D., School of Business Administration; Assistant Dean Dorothy O. Lareau, LL.B., Law School; Assistant Dean Henry J. Griffiths, D.V.M., College of Veterinary Medicine; Professor Ambert B. Hall, D.D.S., School of Dentistry; Associate Dean Robert B. Howard, Ph.D., College of Medical Sciences; Associate Dean John G. Darley, Ph.D., Graduate School.

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

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

(There will be no Recessional.)

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Second Lieutenant, Adjutant General Corps

William F. Boughton, Winona

Second Lieutenant, Armor

Linley A. Barnes, Mankato

Harry L. Silver, Omaha, Neb.

Second Lieutenant, Artillery

Charles A. Beltz, St. Paul

Ronald R. Eckberg, St. Paul

Theodore C. Johnson, Minneapolis

Richard R. Leonard, Minneapolis

Bruce A. Nelson, Minneapolis

Robert J. Pagel, Jr., St. Paul

Eugene R. Prine, Minneapolis

Charles B. Stemple, St. Paul

Werner A. Traxel, Marinette, Wis.

Second Lieutenant, Chemical Corps

Kenneth J. Gustafson, St. Louis Park

Gerald M. Martin, Minneapolis

Second Lieutenant, Infantry

Richard D. Ford, Mabel

Donald J. Glimsdal, Appleton

Wendell L. Halvorson, Spicer

Roy J. Jenks, Minneapolis

Frederic J. Johnson, Minneapolis

Edward E. Kent, Duluth

George E. Kline, Minneapolis

Roy E. Lindstedt, St. Paul

Gene C. Maupin, Fulton, Mo.

Alan T. McArthur, Minneapolis

Second Lieutenant, Military Police Corps

Donald R. Backstrom, Minneapolis

George M. Roehrdanz, Minneapolis

Dennis L. Thuftedal, Minneapolis

Second Lieutenant, Ordnance Corps

Bryce H. Alexander, Minneapolis
Willmar K. Boeder, Minneapolis
David C. Holzknacht, Minneapolis

John W. Johnson, White Bear Lake
James L. Osterhus, Minneapolis
Duane P. Rubertus, Marshall

Second Lieutenant, Quartermaster Corps

William R. Dukelow, San Francisco,
Calif.

James R. Fillbrandt, New Ulm
Wayne L. Plut, Fulda

Second Lieutenant, Signal Corps

Raymond W. Allard, White Bear Lake
David W. Berglund, Minneapolis

Clair J. Robinson, Rush City
Roger I. Sell, Minneapolis

Second Lieutenant, Transportation Corps

John O. Dyrud, Jr., Newfolden
David O. Remington, Minneapolis

James L. Winfrey, St. Paul
George B. Wishy, Osseo

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Robert F. Asleson, New Ulm
Thomas J. Beadles, Winona
Bernhard A. Brakke, Westbrook
Denny D. Culbertson, Missoula,
Mont.
Richard C. Dahl, Waterloo, Iowa
Richard B. Duxbury, Minneapolis
Allen W. Erickson, Minneapolis
Gerald J. Gustafson, Eau Claire, Wis.
James R. Held, Mound

Harold L. Midtvedt, Lakeville
Joseph J. Milkovich, Virginia
Peter J. Nelson, Blue Earth
Harold A. Noring, Pipestone
David G. Opheim, Rochester
Gordon O. Prickett, St. Paul
Edward P. Scanlon, Minneapolis
Royal R. Swanson, North Branch
Gary L. Wachter, Minneapolis
Harry B. Wareham, Manhattan, Kan.

Ensign, USNR

Burton L. Bonn, Minneapolis
Gordon E. Gonion, St. Louis Park

Frank Margulis, Minneapolis
John W. Steen, Mound

Ensign, CEC, USNR

Richard F. Caswell, Anoka

Ensign, SC, USN

Jerald R. Forster, Salem, S.D.

Richard S. O'Brien, Minneapolis

Ensign, SC, USNR

David M. Kennedy, Jr., St. Paul
Gary A. Sachs, Minneapolis

John E. Schoffman, Minneapolis

Second Lieutenant, USMC

William H. Beckwith, Minneapolis
Richard B. Quanrud, Rome, N.Y.
Edward T. Uram, Glen Lake

Henry J. Wasik, New Baltimore,
Mich.

Second Lieutenant, USMCR

Donald H. Brown, St. Louis Park

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Gary A. Adams, Owatonna
John D. Anderson, Ironton
Arthur J. Armstrong, Minneapolis
Sedley C. Davis, St. Louis Park
Bertil R. Erickson, Minneapolis
John J. Frantz, Minneapolis
Robert J. Gran, St. Peter
Francis G. Hamilton, Minneapolis
Roger R. Haxby, Minneapolis
Ronald A. Iwasko, Minneapolis
Donald L. Jensen, St. Paul
Maurice S. Jo, Wailuku, Maui, T.H.

Thomas L. Johnson, Minneapolis
Peter J. Lee, Falls Church, Va.
George R. Manser, Minneapolis
John D. Munson, Minneapolis
Elmer E. Nelson, Waite Park
John R. Sherman, Minneapolis
Donald N. Sroka, Minneapolis
Wilton M. Swenson, Hoffman
Clifford A. Thompson, New Brighton
William D. Walters, Minneapolis
John E. West, Minneapolis

Candidates for Graduation

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

GENERAL EXTENSION DIVISION

Business Certificate

Richard Arthur Christianson, Minneapolis

John Patrick Friel, St. Paul
Ray Joseph Kaiser, West St. Paul
Jiri Josef Klima, Minneapolis

Albert Bernard Meuleners, Minneapolis

M. Louis Norris, Minneapolis
Harold Gustav Steffen, South St. Paul
Clarence Viitala, Minneapolis

Engineering Certificate

Donald Irvin Anderson, Minneapolis
Emmit Joseph Gallagher, St. Paul
Robert Sidney Kravig, Minneapolis

Edward Rasinski, Hopkins
Harold Raymond Schanzenbach, Minneapolis

Industrial Engineering Certificate

Noel Lague, Minneapolis

Associate in Mortuary Science

Westen Hallett Anderson, Minneapolis
William Bruce Anderson, Lake City
James William Arthurs, Marshalltown, Iowa
Raymond Arthur Benson, St. Cloud
George W. Brooks, St. Paul
Richard Lowell Cazer, Lemmon, S.D.
Wayne Edmund Cease, Bagley
Alan Arthur Clothier, Elk River
Robert F. Condon, Minneapolis
Charles Edward Dubore, Roseau
Jay Robert Foley, Rolla, N.D.
Thomas Francis Glodek, Minneapolis
Curtiss Orion Gochner, Jamestown, N.D.

Pedro Rivera Gonzales, Des Moines, Iowa
Philip Alexander Granovsky, St. Paul
Kjell Dennis Hartmark, Minneapolis
Terry Arnold Hawkenson, Red Wing
Ronald L. Hoelscher, St. Paul
Stephen Lee Huffman, Carroll, Iowa
Harvey Hunt Hustad, Redwood Falls
Gerald Delphin Huston, Minneapolis
Richard Walter Kenison, Robbinsdale
Karol Ann Kramer, Dyersville, Iowa
Loren Hardy Langslet, Gettysburg, S.D.
Melvin Dean Larson, Minneapolis
David F. Lauer, Seneca, Kan.
Gene Carr Maupin, Fulton, Mo.

David Karl Ness, Minneapolis
Jon Stuart Olson, Minneapolis
Robert Ernest Page, B.B.A., Norwalk,
Wis.
Waldo Eskil Randall, Henriette
Joseph O. Rickman, B.S., Minneapolis
James Ernest Riley, Dell Rapids, S.D.
Frank E. Runnenburger III, Harrison-
ville, Mo.
Richard Lloyd Sandberg, Janesville

August James Schleicher, A.A., Mill-
ville
Jay Daniel Simon, Iowa City, Iowa
Henry Werner Straub, Eureka, S.D.
Richard Carl Thiel, A.A., Chippewa
Falls, Wis.
Milton Sylvester Thompson, Pequot
Lakes
John David Wherry, Tecumseh, Neb.
Gerald Woodrich, Robbinsdale

GENERAL COLLEGE

Associate in Arts

Mary Ann L. Aasen, St. Paul
Earl Herman Anderson, Jr., Minne-
apolis
Reginald Anderson, St. Paul
Henry Louis Arent, Jr., Minneapolis
Gloria Ann Bagnas, St. Paul
Diane Virginia Bailey, Minneapolis
George Edwin Beckwith, New
Brighton
Donald Allen Behl, Morris
Donald Joseph Belting, St. Paul
Walter Fred Bloch, Minneapolis
William Boutell Boos, Minneapolis
Richard M. Bowlby, Spring Park
Donald Thomas Boyd, St. Paul
Francis Terrence Boyle, Minneapolis
Ronald Duane Boyum, St. Paul
Leon Herbert Brabender, Correll
Jacqueline Jean Brockman, St. Paul
Ronald Charles Brown, St. Paul
Sandra Turina Bryant, Minneapolis
Thomas Lowell Cameron, Hopkins
Arlen R. Carlson, Starbuck
Kenneth Eugene Christensen, St. Paul
Sharon Susan Cooperstock, Minne-
apolis
Gary Raymond Cotten, Minneapolis
Donald Gregory DeChant, North
St. Paul
Ronald Helmer DeVold, Bloomington
Norman Dwayne Dykema, Minne-
apolis
Orville John Eide, Minneapolis
Richard Allan Eklund, Minneapolis

William Peter Enck, Minneapolis
George Roger Erdman, Minneapolis
Lois Anne Erickson, Richfield
Thomas Earl Erickson, Minneapolis
Julius James Evans, Rosemount
Timothy Michael Ferestad, Minne-
apolis
Jack Leland Fletcher, Minneapolis
Richard David Foss, Minneapolis
John Michael Fredericks, White Bear
Lake
Karen Ellen Fredrickson, Minneapolis
Carol Ann Froiland, Thief River Falls
Richard Melvin Frost, St. Paul
Bruce Atley Furos, Detroit Lakes
Robert Wallace Gilbertson, Minne-
apolis
Henry Edward Gislason, St. Paul
Lawrence James Gleeman, St. Paul
Steven Harvey Goldberg, Minneapolis
Barbara Mary Greene, St. Paul
Mary Lutz Griffith, St. Paul
Richard Thomas Guzik, Minneapolis
Robert Joseph Hackel, Minneapolis
Mary Louise Hadley, Minneapolis
Thomas William Harris, Minneapolis
Robert Bruce Hartman, Minneapolis
Josiah Hartzell IV, Minneapolis
Stephen Robert Hegedus, St. Louis
Park
Gerald Swan Hilker, St. Paul
Edward Martin Hohertz, Hopkins
Bjarne Myron Iverson, Excelsior
Thomas Lee Jackson, Minneapolis

Karen Lee Jensen, Anoka
 Douglas Gilmore Johnson, Minneapolis
 Eugene Dell Johnson, Fergus Falls
 Grant Risch Johnson, St. Paul
 Leland Kenneth Johnson, Minneapolis
 Douglas Thomas Johnston, St. Paul
 Charles Frederick Jones, Park Rapids
 Floyd Ronald Jones, Fulda
 Kathleen Ellen Jordan, Edina
 Gale Warren Jorgenson, Minneapolis
 Harold Richard Jorgenson, Robbinsdale
 Dale Joyce Kaiser, St. Paul
 James Joseph Kappelhoff, St. Paul
 Virgil Joseph Kapsner, Hillman
 Edward Katz, Robbinsdale
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Sheldon Abbott Vermes, Minneapolis

INSTITUTE OF TECHNOLOGY

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Owen Sydney Durigan, Minneapolis,
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James Kenneth Foster, Minneapolis,
WITH HIGH DISTINCTION
Kenneth Scott Foster, Hopkins, WITH
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William Hugh Frye, Big Falls, WITH
DISTINCTION
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Lake, WITH DISTINCTION

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 Lowell Ernest Johnson, Roseau
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 Roman Kolodnyckij, Minneapolis
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 Louis Albert Larson, Robbinsdale
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 Darwin
 Benjamin Terry Love, Rochester
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 Willard Lester Moline, Harris, WITH
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 Mason Conner Myers, B.A., Somerset,
 Wis.
 Clement Ansgar Nelson, St. Paul

Elmer Eugene Nelson, St. Cloud
Warner Galen Nibbe, Morris
George Norman Nordgren, Ortonville
Michael Jerome O'Neill, St. Paul
Richard Francis O'Neill, Minneapolis
Galen Keith Oppegard, St. Paul
Ronald Togo Oshima, Minneapolis
James Lee Osterhus, Robbinsdale
Walter Andrew Parlow, Minneapolis,

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Charles Joseph Peterson, Minneapolis
Robert James Pickering, Culver, WITH
DISTINCTION

Michael John Pisansky, Minneapolis
Richard Clark Potter, Proctor, WITH
DISTINCTION

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Norman Ernest Rud, Jr., Edina
Duane Frederick Sanborn, St. Clair,
WITH DISTINCTION

Lee Roger Schuck, Minneapolis
Harold Frank Schwarz, St. Paul
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Donald Joseph Stephani, St. Paul

Donald Charles Stilkey, Mankato
Ronald Dwain Stonefelt, St. Paul
Paul Delano Stroom, Hallock, WITH
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Wilton M. Swenson, Hoffman
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Edwin Clarence Wang, Duluth, WITH
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John Victor Bymark, Biwabik
Martin Louis Gimpl, Browerville
Richard George Groen, Minneapolis

Roger Carl Kaase, St. Paul
George Edward Leonhard, Jr., St. Paul
Joseph Michael Marincel, Mountain
Iron

Bachelor of Metallurgy

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Dale Franklin Stein, Kimball

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Melvin Carl Vagle, Jr., Lake Bronson

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Dick Lawrence Madson, Hibbing
Harold Andrew Noring, Pipestone
Jerry Charles Norling, Minneapolis
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Valley, WITH DISTINCTION

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Derrell Duane Piper, Lakefield
Gordon Odin Prickett, St. Paul, WITH
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Grace Evon Anderson, Redwood Falls, Related Arts
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Margaret Ann Beiswanger, Minneapolis, Related Arts
Robert Earl Benson, Eau Claire, Wis., Forest Management
James Frederick Bergstrom, Minneapolis, Dairy Industry
Curtis Kenneth Bernd, South Milwaukee, Wis., Forest Management
William Allen Berndt, St. Paul, Forest Management
Robert Alva Blackbourn, Montfort, Wis., Forest Management
John Edward Borkenhagen, Park Falls, Wis., Forest Management
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Audrey Lue Christopherson, Staples, Home Economics
Colleen Rae Conrath, St. Paul, Home Economics
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Edward Alexander Delaney, Jr., St. Paul, Forestry

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James E. Eastman, St. Paul, Forestry
Douglas Milton Engelsen, Windom, Forest Management
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Robert William Erickson, Plummer, Forestry
Harold Phillip Flaaten, Brainerd, Fishery and Wildlife Management
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Don Keith Garber, Dent, Animal Husbandry, WITH DISTINCTION
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Mary Dee Gruber, St. Paul, Home Economics
Stanley Howard Grunewald, Minneapolis, Forest Management
James Tex Haapala, Dassel, Agronomy
Edward Judd Haeg, Mora, Animal Husbandry
Lucille Anne Hall, Lutsen, Home Economics
Axel Hansen, Jr., Savage, Forest Management
Edna Olena Hanson, New Richland, Home Economics, WITH DISTINCTION
Lynette Joy Hanson, Minneapolis, Food Technology, WITH DISTINCTION
James Warren Hassing, Wells, Animal Husbandry

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- Marvin Vincent Hepola, Sebeka, Animal Industry
- Marlene Dianne Holmberg, Minneapolis, Food Technology
- Dennis Charles Holthus, Minneapolis, Forest Management
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- Donald Ernest Johnson, Edina, Forestry
- Victor Jorges, Jr., Madison, Animal Husbandry
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- John Wasson King, Jr., Minneapolis, Forest Management
- Norman Frost Koller, New York Mills, Forest Management
- Josephine Krantz, St. Paul, Home Economics
- George Thomas Langemo, Kenyon, Animal Husbandry
- Thomas John Laughlin, Benson, Agronomy
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- Lea Marie Likarish, St. Paul, Home Economics
- Darrel Henry Lockwood, Austin, Animal Husbandry
- James Edward Long, Clearbrook, Animal Husbandry
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- Patrick Joseph Morgan, Olivia, Agricultural Economics
- John Richard Morris, Lafayette, Animal Husbandry
- Arvin Max Mueske, St. Charles, Soils
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- Bruce Howard Roettgering, St. Paul, Forest Management
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- Joseph Stanley Shatava, Pine City, Poultry Husbandry
- Oscar Nery Sosa, Amatitlan, Guatemala, Plant Pathology

- LeRoy Wayne Sowl, Brainerd, Fishery and Wildlife Management
 Alice Marie Kucera Stenlund, Clearbrook, Home Economics
 Ronald Wayne Stevens, Bingham Lake, Animal Husbandry
 Lorin Everett Stolte, New Ulm, Agricultural Economics
 Mary Anne Stone, Hanska, Home Economics
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 Marlene Ann Swenson, Minneapolis, Related Arts
 Helen Ann Tausch, Walker, Home Economics
- William Fredrick Thomford, Zumbrota, Forestry
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 Richard Jasper Toutges, Jackson, Forest Management
 John William Walburn, Grand Rapids, Agronomy
 Arvid Louis Wendland, Winthrop, Soils
 James Warner Wettergreen, Hibbing, Forest Management
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- Diane Mary Pemble Carlson, St. Paul
- Rachel Elaine Carlson, Moose Lake
- Roberta Louise Caron, Edina
- Helen Rose Carroll, St. Paul
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- Joan Marie Miller Christenson, Minneapolis, WITH HIGH DISTINCTION
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- Philip Robert Collins, Pengilly, WITH DISTINCTION
- Mary Margaret Cote, A.A., Minneapolis
- Sally Ann Crosby, Minneapolis
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- Marcene Evelyn Eckert, Minneapolis
- Audrey Maxine Ecklund, Minneapolis, WITH DISTINCTION
- Susan Jane Eggmann, Fargo, N.D.
- Julie Ann Ellefson, Willmar, WITH DISTINCTION
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- Robert Louis Erickson, Hibbing
- Howard Emil Ernst, Lester Prairie, WITH DISTINCTION
- Merna Madreen Evans, Fosston, WITH DISTINCTION
- Lois Ann Eyinck, B.A., St. Paul
- Mary Ellen Faricy, St. Paul
- James Robert Fillbrandt, New Ulm
- Barbara Rose Finkelstein, Minneapolis
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- Denis Deane Foote, Minneapolis

* Nursing Education Curriculum

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 Don Frank Freeberg, Austin
 Marilyn Elaine Frees, Lakefield
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 Idaho
 Sandra Ailene Friedman, St. Paul
 Catherine Marie Martin Friswold,
 Litchfield
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 chewan, Canada, WITH HIGH DIS-
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 Randi Laura Coburn Gerttjansen,
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 Marjorie Joy Niman Goodman,
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 Robert James Gormley, Minneapolis
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 apolis
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 onie, Wis., WITH DISTINCTION
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 don, Wis.
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Shirley Ann Van Tassel, Watertown
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David T. Carlstedt, B.S., Minneapolis
Lorna Helen Ebert, B.S., Osseo
Don LaVerne Finlayson, B.S., St. Paul
Laura G. Gulbrandson, B.S., New Ulm
Robyn Faye Gilman Nayyar, B.B.A., B.S., Minneapolis
Katherine Maud Ness, B.S., Canton, S.D.
- Mary Elizabeth Parpart, B.S., Geneseo, Ill.
Lois Watson Rees, B.S.N., Minneapolis
Dorothy Marie Rinehart, B.S., New Ulm
Sister Mary Deelan Hassett, B.S., Rochester
Berneice Marie Wagner, B.S., Norfolk, Neb.

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Norris Arthur Austvold, Hennan, Agricultural Education
Peter James Ambrose Balfe, Kilkenny, Agricultural Education, WITH DISTINCTION
Kathleen Elinor Beloy, Aurora, Home Economics Education, WITH HIGH DISTINCTION
Gladys Ronette Bergstrom, Cokato, Home Economics Education, WITH DISTINCTION
Marilyn Jean Bersie, Maple Plain, Home Economics Education
Emma Diana Bohlin, Minneapolis, Home Economics Education, WITH DISTINCTION
Nonnan Eugene Bohmbach, Akeley, Agricultural Education, WITH DISTINCTION
Ronald Carl Croone, Chisago City, Agricultural Education
William Glenn Danson, Grand Rapids, Agricultural Education
Merlin Harvey Eichstadt, Sanborn, Agricultural Education
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 Robert Michael Mortenson, Minneapolis
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 Calif.
 Mark William Nelson, Minneapolis
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 Stanley James Orcutt, Minneapolis
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 Kermit Levane Paulsen, Steen
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 Richard August Piepho, Owatonna
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Russell Howard Ewert, Jr., Rochester
John Daniel Flanery, Minneapolis
Richard Henry Fudali, A.L.A., Minneapolis
Thomas Gallagher, Minneapolis
James Gilbert Gilbertson, St. Peter
George Danforth Goodrich, Minneapolis
Malin David Greenberg, Minneapolis
Richard Arthur Gullickson, Eau Claire, Wis.
Robert Turner Gustafson, Spring Valley
Helen Ivy Hill, A.A., Embarrass
Kenneth Howard Holmes, South St. Paul
W. Roy Johnson, Hutchinson
Joel Reuben Kirschbaum, St. Louis Park
Richard Earl Lundborg, Minneapolis
Howard Irwin Malmon, St. Paul
Markham Mattenson, Minneapolis
Charles E. Mattson, Duluth
John Michael Miller, Bagley
Arnold Lanes Moe, St. Louis Park
William Edward Mullin, Jr., Minneapolis
Kenneth Rulien Ohlson, A.L.A., St. Paul
Arnold Sanford Petersen, Milroy
Donald Charles Petersen, Robbinsdale
Ronald Radakovich, A.A., Calumet
Richard Clive Rhodes, Minneapolis
Fred William Sanborn, Ortonville
Harvey Sarner, New York, N.Y.
Jerome Segal, St. Paul
Donald John Sorensen, Minneapolis
Ralph Leonard Strangis, Minneapolis
Paul Douglas Tierney, Minneapolis
Paul John Tschida, West St. Paul
Edward Cyril Vavreck, Minneapolis

Bachelor of Laws

- Richard Brill Abrams, Minneapolis
Austin G. Anderson, B.A., Calumet
Ronald Carl Anderson, B.S.L., Minneapolis
Edward William Bergquist, Minneapolis
Louis Bialick, B.S.L., Minneapolis
Richard Hubert Bins, B.A., St. Paul
David Blandford Boies, B.A., Hopkins
Edward Harold Borkon, B.A., Minneapolis
Frederic Norton Brown, B.A., Rochester
Galen Max Cadle, B.S.L., Newton, Kan.
Clifford James Caine, B.A., St. Paul
Donald Gerdes Campbell, B.S.L., Minneapolis
Bruce Edwin Clubb, B.B.A., Blackduck, CUM LAUDE
John Francis Corbey, Minneapolis
Warren Joseph Daheim, B.A., Minneapolis, MAGNA CUM LAUDE
Michael Joseph Doyle, B.A., Kewatin
Gene Thomas Ecker, St. Paul, CUM LAUDE
Robert Arland Eddy, B.A., Hastings
John Warren Edstrom, Rochester
John Daniel Flanery, Minneapolis

David Carl Forsberg, B.A., Minneapolis, CUM LAUDE
Duane Vernon Franke, B.A., Minneapolis
Herman Albert Friess, B.B.A., Rice Lake, Wis.
Norton Marshal Furman, A.A., B.S.L., Minneapolis
Edward Henry Galbraith, B.S.L., Minneapolis
Thomas Gallagher, B.S.L., Minneapolis, CUM LAUDE
Edward P. Gershenovitz, B.A., Minneapolis
Alden Harold Gjevre, B.A., Minneapolis
George Danforth Goodrich, Minneapolis
Richard Allan Grayson, B.A., St. Paul
Morris Arthur Grover, B.A., Deer Creek
Robert Andrew Guzy, B.S.L., Minneapolis
Robert James Healy, B.A., Chatfield
Richard Cadwell Hefte, B.A., Caledonia
John Dwain Holden, B.S., Brainerd
Richard Gene Hunegs, B.S.L., Minneapolis
William C. Hunt, B.S.L., St. Paul, CUM LAUDE
William Ray Jones, Jr., B.A., Minneapolis
John Peter Karos, B.A., Medford
Ernest Katin, B.A., M.A., Minneapolis
Terry Clark Klas, B.S.L., St. Paul
Spencer George Kluegel, B.S., Lambertton
Donald Clarence Knutson, B.B.A., St. Paul, MAGNA CUM LAUDE
John Reno Krouss, B.A., Lake City
A. Logan Langwith, B.A., Minneapolis
Danforth Huntington Leach, B.S.L., Minneapolis
John Milo Leffingwell, B.S.L., Minneapolis
Charles John Lindberg, B.S.L., Minneapolis
Derbin Kenneth Lindgren, Jr., B.S.L., Minneapolis
Thomas George Lockhart, B.S.L., Minneapolis
Howard Irwin Malmon, St. Paul, CUM LAUDE
Charles E. Mattson, Duluth
William Brown McCallum, B.S.L., Minneapolis
David George McGannon, B.A., Hutchinson
Robert Joseph McGuire, B.S.L., Marshall
John Michael Miller, Bagley
George Yukio Miyake, B.A., Honolulu, T.H.
William Edward Mullin, Jr., Minneapolis, CUM LAUDE
Peter Jarrell Mulvahill, B.S.L., Hibbing
Richard Keith Parsons, B.A., Redwood Falls, CUM LAUDE
Raymond Joseph Petroski, B.B.A., Minneapolis
Paul Irving Peyrat, B.A., Minneapolis
Delila Frances Pierskalla, B.S.L., Minneapolis, CUM LAUDE
James Anthony Polzak, B.A., Minneapolis
Roger Patrick Quinlivan, B.B.A., St. Cloud
Everett Garland Rotenberry, B.S.L., St. Paul
Charles William Schiesser, B.A., Fergus Falls
Ronald Norville Schumeister, B.B.A., St. Paul
Robert John Seng, B.A., St. Paul
Owen E. Shaffer, B.A., Fergus Falls
Roger William Sherman, B.S.L., Minneapolis
James Leo Sifferle, B.S.L., Minneapolis
Ralph Tippet Smith, B.A., Bemidji, CUM LAUDE
Mitchell Robert Spector, B.S.L., Minneapolis
Paul Gary Sterling, B.S.L., Duluth
Diane Root Struble, B.S.L., Robbinsdale
Patrick Francis Sullivan, B.S.L., Lakeville
Paul Douglas Tierney, Minneapolis

Reginald Joel Tierney, B.S.L., Minne-
apolis
Wellington Wheeler Tully, Jr.,
Minneapolis
Thomas Monroe Vogt, B.S.L., White
Bear Lake

Ronald James Werner, A.L.A., B.S.L.,
Lamberton
Eugene Thomas Williamson, B.S.,
Waubun

COLLEGE OF VETERINARY MEDICINE

Bachelor of Science

Arnold David Alstad, Jackson
Steven William Anderson, Madelia
Raymond Paul Axtman, Rugby, N.D.
Ervin Junior Baas, Worthington,
WITH DISTINCTION
Ivan Enger Berg, Fargo, N.D., WITH
DISTINCTION
Gerald Nickolas Beste, Melrose
Charles Everett Blackburn, Green
Bay, Wis., WITH DISTINCTION
Jerry Edward Butts, St. Paul
Bennie Oliver Carlson, St. Paul
Bryce Allen Cunningham, B.A., St.
Paul
Donald Michael Dachel, Chippewa
Falls, Wis.
David Miles Duffin, Whitewater, Wis.
Roger David Fortney, St. Paul
Eva Francine Gough, Eagle River,
Wis., WITH DISTINCTION
Bruce Warren Gutzmann, St. Paul,
WITH DISTINCTION
Benjamin Leslie Hart III, Edina,
WITH DISTINCTION
Paul David Holmberg, St. Paul
Kenneth Harvey Johnson, Hallock
John Kenneth King, LeSueur
Eugene Lawrence Kirshbaum, Minne-
apolis

P. John Komarek, New Prague
Jack Allan Lambert, Hibbing
Vaughn LeRoy Larson, St. Paul
Warren Harlan Luedtke, Milaca,
WITH HIGH DISTINCTION
Kenneth Gene Magnuson, Blooming
Prairie
Joseph Robert McGlynn, Richland
Center, Wis.
Arthur Evans Moats, Jr., Cedarburg,
Wis.
DuWayne Edward Molnau, Waconia
Harley William Moon, Balaton, WITH
DISTINCTION
George Peter Morgan, Olivia
Robert Allen Nelson, Tracy
David Peter Olson, Rush City
Ned Eldon Olson, Worthington, WITH
DISTINCTION
Richard Stanley Olson, Stacy, WITH
DISTINCTION
Donald Sanford Opstad, Minot, N.D.
Barbara Jean Persson, St. Paul, WITH
DISTINCTION
Gary Robert Sampson, Minneapolis
William Fredrick Schwarze, Glencoe
Robert Alan Williams, Big Rock, Ill.

Doctor of Veterinary Medicine

Gerald Wayne Albright, B.S., Lafay-
ette
Burton Elwood Anderson, Chisago
City
Wenzel Edward Armstrong, B.S.,
Good Thunder

George Kufalk Bacon, Stevens Point,
Wis.
Keith Eugene Breyer, B.S., Dale, Wis.
James Vernon Bundy, B.S., Fertile
Richard Eugene Carlson, B.S., Sand-
stone

George Henry Drewry, B.S., Plymouth, Wis.
 Donald Albert Ellis, B.S., Platte, S.D.
 Lawrence Woolford Ferrigan, B.S., St. Paul
 Maurice Michael Hanify, B.S., Belle Fourche, S.D.
 Donald Harvey Hastings, B.S., Fargo, N.D.
 Paul Norman Henstein, Montevideo
 Gary Paul Higgins, Niagara, Wis.
 Oscar Allen Hildebrandt, Jr., B.S., Kiel, Wis.
 Ann Brooke Holt, B.S., Chapel Hill, N.C.
 Charles Roger Horsens, B.S., St. Paul
 Claring Raymond Huff, B.A., Glenwood
 Darrel Dean Joel, B.S., Wood Lake
 P. John Komarek, New Prague
 Harold John Kurtz, B.S., M.S., Bushnell, S.D.
 Jack Allan Lambert, Hibbing
 Howard Thomas Legried, B.S., Oakland
 Thomas Eugene Lucas, B.S., Edgerton
 George Peter Morgan, Olivia
 Robert Lee Northrop, B.S., St. Paul
 Warren Reuben Nystrom, B.S., Worthington
 LeRoy David Olson, B.S., Guckeen
 James Roger Piotrowski, B.S., Minneapolis
 John Charles Raforth, B.S., Sleepy Eye
 John Clarkin Rooney, B.S., St. Paul
 James Laurence Schaefer, B.S., Park Rapids
 LaDoyt Kern Schwartz, B.S., Sleepy Eye
 Philip Edward Sorge, B.S., Reedsburg, Wis.
 Roderick Sylvester Stenzel, B.S., Minnesota Lake
 John Arthur Strache, B.S., Howard Lake
 Lester Henry Swanson, B.S., St. Paul
 Clayton Julson Torbert, B.S., Hector
 Richard Breslich Wescott, B.S., St. Paul
 Roger Edwin Wilsnack, B.S., Sheboygan, Wis.

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

Marlene Grace Aulick, South St. Paul
 Jane Ann Benson, Rochester
 Betty Lou Broms, Crosby
 Norene Mary Christy, Robbinsdale
 Norma Jean Engstrom, Minneapolis
 Janet Gay Erickson, Minneapolis
 Virginia R. Lou Erickson, Roscau
 Annette Rae Evju, Alexandria
 Carol Jean Fredrickson, Minneapolis
 Dorene Rae Gerber, St. Paul
 Linda Louise Gesin, St. Paul
 Beverlee Ruth Gustafson, Brainerd
 Joanne Evelyn Hagen, Stanley, Wis.
 Barbara Grace Hallin, Minneapolis
 Sharon Mac Holmquist, Buffalo
 Nethalie Pat Jensen, Virginia
 Kathleen Ann Keenan, Minneapolis
 Connie Lou Knochenmuss, Cheyenne, Wyo.
 Karin L. Nelson Larson, St. Louis Park
 Elaine Louise Lehman, Reedsburg, Wis.
 Lou Anne Lewis, Fairfax
 Dolores Marie Lier, Minneapolis
 Julianne Lightbourn, St. Paul
 Jo Ellen Lillehei, Port Orchard, Wash.
 Joan Rae Ludke, Alexandria
 Barbara June McMahon, Eau Claire, Wis.
 Marilyn Aaron Naiditch, Minneapolis
 Ruth Ann Novick, Madison, Wis.
 Shirley Naomi Okerson, Minneapolis
 Connie Lou Oliver, Las Vegas, Nev.
 Leona Frances Olsen, St. Paul
 Agnes Elizabeth Pavlich, Soudan
 Suzanne Ray Peters, Little Falls
 Elizabeth Ann Quam, Austin

Kathryn Ann Rafshol, Robbinsdale
June Darlene Rask, Robbinsdale
Joanne Olson Rau, Minneapolis
Shirley Ann Reichmuth, Minneapolis
Naomi Reed Rhode, Minneapolis

Audrey Marie Running, St. Paul
Janice Vee Saathoff, Jeffers
Sue Ann Schweke, Reedsburg, Wis.
Ina Rosalie Stromquist, Little Falls
Diane Louise Zidel, St. Paul

Bachelor of Science

LeRoy Edwin Albjerg, Fergus Falls
David Andrew Anderson, Virginia
Donald Herbert Anderson, Minneapolis
Odell Johnnie Anderson, Lowry, WITH DISTINCTION

Ronald Lee Baker, Owatonna
James Donald Bennyhoff, Brainerd
Bruce Einar Carlson, Minneapolis
Rodney John Casad, McVille, N.D.
Robert Raymond Dahl, North St. Paul
Helmer Bernhardt Dale, Nielsville
Leicester Newell Davis, Jr., Sheridan, Wyo.

Donald John Dill, B.A., Elk River
William Emmet Dobbs, Mapleton
Jerome Dermott DuLac, Minneapolis, WITH DISTINCTION

Dennis Melvin Eckholm, Minneapolis
Raymond Hugh Eckles, Moorhead
Fred Grover Emmings, Hopkins, WITH HIGH DISTINCTION

John Franklin Erickson, Hallock
Robert Carl Faine, B.A., St. Paul
Robert Willard Farish, Caldwell, Idaho

Arlie R. Fast, Delft
George Edward Fischer, Marshall
Robert William Gerlicher, Minneapolis

David Joseph Gorde, St. Paul
Fred G. Gordon, B.A., Minneapolis
Dean William Govig, Willmar
Robert Thomas Griffith, Benson
Fred Ira Guynn, Powell, Wyo.
Duane Theodore Hanson, Brainerd
Vernon Robert Hanson, St. Paul
Albert Charles Heck, B.A., Minneapolis

Ralph Alois Heiser, B.A., Minneapolis
Paul Wesley Hiller, Robbinsdale, WITH DISTINCTION

Edward Aaron Himrich, Selby, S.D.
Peter Marvin Holm, Minneapolis
James Henry Hunder, Lake City
Odein LeRoy Hyland, Minneapolis
Willis Benjamin Irons, Hinckley
Anton F. Jarmoluk, Gilman, Wis.
Leslie Roger Jevning, Climax
Robert Thomas Johnson, Hines, Wis.
Thomas Frederick Kiner, Janesville
Norman Takio Kushino, Minneapolis
Clark Francis LaChapelle, Minneapolis, WITH HIGH DISTINCTION
Richard J. Lawler, Willmar
Richard Allen Litman, Minneapolis
Duane William Loudon, Aberdeen, S.D.

Herbert Floyd McClellan, Jr., B. A., Mobridge, S.D.

John David McGill, B.A., Wayzata
William John Milne, B.A., St. Paul
Robert William Mundt, Onamia, WITH DISTINCTION

Thomas Dwight Murphy, Jr., Duluth
Riley Karl Murri, Pocatello, Idaho
Bruce Maynard Nelson, Minneapolis
Rex J. Nelson, Idaho Falls, Idaho
David Peter Norden, St. Paul
Dale Clarence Nordstrom, A.A., Dassel

William Claire Nygren, Braham
Carl John Olson, Kasson
Robert Edward Packard, Delano
Richard Corbett Patch, Minneapolis
John Broman Pike, St. Cloud
Donald Michael Popovich, Nashwauk
Wesley Howard Rethwill, Waseca
Donald Howard Reynolds, Council, Idaho, WITH HIGH DISTINCTION
Kenneth Derald St. Louis, Eau Claire, Wis.

Reed Ellis Sanford, Princeton, WITH DISTINCTION
Harold Richard Scheibe, Jr., Cloquet

Harry Lowell Schroeder, South St.
Paul
Richard George Sheils, Minneapolis
Dan Richard Slaughter, Mankato
Myron John Smith, Washburn, Wis.
Jack Arnet Soderling, Forest City,
Iowa
William Emmet Spindler, Deadwood,
S.D.

Thomas Martin Udager, Rapid City,
S.D.
Karl Greg Von Grossmann, St. Paul
Garrit M. Ye, Minneapolis, WITH DIS-
TINCTION
Robert Emerson Youngquist, St. Paul

Doctor of Dental Surgery

Kenneth Dale Albright, B.A., Pelican
Rapids
David Andrew Anderson, Virginia
Roger David Baumgartner, B.S., Bird
Island
James Miller Baxter, St. Paul
Paul Sidney Bjornjeld, Danvers
Kenneth Jerome Buechele, Minne-
apolis
Dwight Albert Burgan, B.S., Deer
Lodge, Mont.
Irving John Cater, B.S., Minneapolis
George Weldon Cook, St. Cloud
Monte Bruce Curtis, B.S., Boise, Idaho
Robert Raymond Dahl, North St.
Paul
Arthur Thomas Daleiden, B.S., Mont-
gomery
Leicester Newell Davis, Jr., Sheridan,
Wyo.
Donald John Dill, B.A., Elk River
William Emmet Dobbs, Mapleton
Jerome Dermott DuLac, Minneapolis
Clark Norman Eid, B.A., B.S., Gary
Harry Henning Elletson, St. Cloud
Dudley Ramon Elmgren, Duluth
William James Ensign, B.S., Duluth
John Franklin Erickson, Hallock
David Conrad Frogner, B.S., Colfax,
Wis.
Robert William Gerlicher, Minne-
apolis
Masaichi Gima, B.S., Lanai City,
Lanai, T.H.
David Joseph Gorde, St. Paul
Fred Gordon, B.A., Minneapolis
Thomas McNaughton Grewe, B.S.,
Eau Claire, Wis.
Robert Thomas Griffith, Benson

Charles William Gurtler, B.S., Wis-
consin Rapids, Wis.
Fred Ira Guynn, Powell, Wyo.
Donald Gerhart Hammer, B.S., Col-
fax, Wis.
John Herbert Haroldson, B.S., Wood
Lake
George LaVern Hegge, B.S., Willis-
ton, N.D.
Ralph Alois Heiser, B.A., Minneapolis
John Cleveland Helder, B.S., Ellen-
dale, N.D.
Paul Wesley Hiller, Robbinsdale
Anton F. Jarmoluk, Gilman, Wis.
Leslie Roger Jevning, Climax
Robert Thomas Johnson, Hines, Wis.
Ronald Howard Johnson, B.S., St.
Paul
John Warren Kenyon, B.S., Minne-
apolis
Marvin Krochock, B.S., Watertown,
S.D.
Norman Takio Kushino, Minneapolis
Ronald Erving LaBelle, B.S., Duluth
Quentin Harold Lauer, B.S., Winona
Richard J. Lawler, Willmar
John Allan LeVasseur, B.S., Duluth
Eugene Stephen Ley, Watkins
Dean Leonard Lovold, B.S., Waseca
Glenn Amel Matson, B.S., Nashwauk
James Allan McDowell, B.S., Nash-
wauk
Eugene Allen Moll, B.S., Minneapolis
Mylon Brant Morris, B.S., Duluth
Riley Karl Murri, Pocatello, Idaho
Basil Leonard Nelson II, St. Paul
Rex J. Nelson, Idaho Falls, Idaho
Wesley Conrad Neubauer, B.S., Deer
Lodge, Mont.

George Henry Nitschelm, B.S., Klammath Falls, Ore.
 Carl John Olson, Kasson
 Henry Oselka, B.S., Minneapolis
 Roger Allen Ostroot, Granite Falls
 Gerald Rydholm Ott, B.S., Deer River
 Jack Abel Palkie, Cloquet
 Richard Corbett Patch, Minneapolis
 Richard Clarence Paulson, B.S., Princeton
 James Vincent Pecchia, Nashwauk
 Joseph William Pekarna, B.S., Jordan
 William Joseph Pence, B.S., Elmwood, Wis.
 Leroy Molden Petterson, B.A., Colfax, Wis.
 Donald Michael Popovich, Nashwauk
 William Charles Randall, B.A., B.S., Duluth
 John Henry Sagehorn, A.A., Bismarck, N.D.
 Reed Ellis Sanford, Princeton
 Ernest Francis Schanilec, Forest River, N.D.
 Harry Lowell Schroeder, South St. Paul
 Michael Peterson Sherin, B.S., St. Paul
 Stephen Geoffrey Sinykin, B.A., B.S., Hopkins
 Dan Richard Slaughter, Mankato
 William Emmet Spindler, Deadwood, S.D.
 John Huntington Spink, B.S., St. Paul
 James Anthony Spoodis, Minneapolis
 Richard Elgin Stallard, B.S., Minneapolis
 Franklin R. Stickel, Minneapolis
 James Allen Swenson, B.S., Minneapolis
 Edward L. Tyler, B.A., Walnut Grove
 Thomas Martin Udager, Rapid City, S.D.
 Raymond Leonard Warpeha, B.S., Minneapolis
 Herbert H. Wong, B.S., Minneapolis
 Richard Jay Wright, B.S., St. Cloud

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing

Sharon Ann Stickel, Minneapolis

Bachelor of Science in Nursing Administration

Ruth M. Organ, Thief River Falls, WITH DISTINCTION

Bachelor of Science

| | |
|--|---|
| Roberta Sharon Abbey, St. Paul, Physical Therapy | John Rutherson Anderson, B.A., Minneapolis, Medicine |
| Gordon Lagersen Addington, B.C.E., St. Paul, Medicine | Ruth Marian Anderson, Minneapolis, Public Health Nursing |
| Charles VanNuys Allen, B.A., Rochester, Medicine | Roger Boyd Arhelger, B.S., St. Paul, Medicine |
| Patricia Ruth Allen, Minneapolis, Physical Therapy | William Duane Backer, B.A., Luverne, Medicine |
| James McGillivray Anderson, B.A., Duluth, Medicine | Lowell Wherry Barr, B.A., Albert Lea, Medicine |

- Dell Beauchine, Crookston, Occupational Therapy
- Sanda Jean Benson, Duluth, Medical Technology, WITH DISTINCTION**
- Charles Herbert Bloom, B.A., North Branch, Medicine
- Malcolm Nolan Blumenthal, B.A. magna cum laude, Columbia Heights, Medicine
- Frances Karen Anderson Bonavitz, Benson, Occupational Therapy, WITH DISTINCTION
- Lowell Augustus Brown, B.A., Minneapolis, Medicine
- Catherine Aitken Buck, Toronto, Ontario, Canada, Physical Therapy, WITH DISTINCTION
- James Gilbert Cardle, B.A., Minneapolis, Medicine
- John Burch Cardle, B.A., Minneapolis, Medicine
- Judith Anne Carlson, Minneapolis, Occupational Therapy
- Roberta Olive Carlson, Sauk Centre, Medical Technology**
- Alice Chadwick, Hoyt Lakes, Occupational Therapy, WITH DISTINCTION
- Marian Bernice Cleveland, Minneapolis, Occupational Therapy
- Marilyn Kay Clusiau, Ely, Physical Therapy, WITH DISTINCTION
- James Ross Cone, Elmore, Physical Therapy, WITH DISTINCTION
- Richard Charles Craven, Utica, Physical Therapy
- Fran Barnes Dameron, Los Altos, Calif., Physical Therapy, WITH DISTINCTION
- Paul Colwell Davidson, B.A., Jasper, Medicine
- Marilyn Janice Deibert, Minneapolis, Physical Therapy, WITH DISTINCTION
- Myron Irving Doebler, B.A., Princeton, Medicine
- Margot Jeanné Dow, Clarendon Hills, Ill., Physical Therapy, WITH DISTINCTION
- James David Ebner, Mt. Angel, Ore., Occupational Therapy
- Janet Rae Eickhof, Paynesville, Occupational Therapy
- Oscar Gustav Enstrom II, St. Paul, Medicine
- Patricia Ann Erickson, Minneapolis, Occupational Therapy
- William Lyle Erickson, Minneapolis, Physical Therapy
- Jacquelyn Alyce Evjen, Minneapolis, Occupational Therapy
- Sandra Jean Van Sant Fardal, A.A., Minneapolis, Medical Technology**
- Helen Roberta Farnham, Mound, Medical Technology**
- Marcia Vee Farrow, Minneapolis, Occupational Therapy
- Eric O. Feigl, B.A., Minneapolis, Medicine
- Carol Joan Forsell, Twin Valley, Medical Technology**
- Joan Marie Gustafson, Hanley Falls, Occupational Therapy, WITH DISTINCTION
- Elinore Anita Hagen, Watson, Medical Technology, WITH DISTINCTION**
- Helen Louise Hall, Lutsen, Physical Therapy
- Jean Frances Hall, A.A., Minneapolis, Occupational Therapy
- Donabelle Rae Hansen, A.A., Worthington, Physical Therapy
- Ruth Knutson Hart, Minneapolis, Physical Therapy
- Dorothy Carol Havighurst, Chicago, Ill., Physical Therapy
- Gordon Henry Herbst, B.A., Mankato, Medical Technology, WITH DISTINCTION**
- Sharron Olive Hogan, Minneapolis, Occupational Therapy
- Richard Dix Hovland, B.A., St. Paul, Medicine
- Norma Jean Howell, St. Paul, Occupational Therapy, WITH DISTINCTION

**These degrees are conferred subject to the satisfactory completion of practical work prior to December 18, 1958.

- Robert Allen Hummel, B.A., Tower City, N.D., Physical Therapy, WITH DISTINCTION
- Linneus G. Idstrom, B.A., M.B., M.D., Minneapolis, Medicine
- Elizabeth Joanne Imm, Minneapolis, Occupational Therapy
- Susan Patricia Jacob, Highland Park, Ill., Medical Technology**
- Paula Thabea Jank, St. Paul, Public Health Nursing
- Donald C. Johnson, Hibbing, Physical Therapy
- Evonne Carol Johnson, Walnut Grove, Occupational Therapy
- Joycelyn Lower Johnson, Minneapolis, Medical Technology, WITH DISTINCTION
- Mavis Callister Johnson, Cannon Falls, Physical Therapy, WITH DISTINCTION
- Rosalyn Kay Johnson, Washburn, Wis., Medical Technology**
- Jean Elizabeth Jorgenson, Minneapolis, Medical Technology**
- James Walter Joseph, Cloquet, Physical Therapy
- LeAnn Gail Kelley, Garden City, Public Health Nursing
- Eadie Arlys Kenigsberg, Duluth, Medical Technology**
- Donald Jerome Lawler, B.A., Crookston, Medicine
- Nancy Caroline Lee, Howard Lake, Medical Technology**
- Thomas John Lehar, B.A., Minneapolis, Medicine
- Margaret Ann Lehtinen, Duluth, Medical Technology**
- Loren Richardson Leslie, B.A., Chester, Iowa, Medicine
- John Walton Lester, B.A., St. James, Medicine
- Joan Elizabeth Lofgren, LaGrange, Ill., Occupational Therapy, WITH HIGH DISTINCTION
- Charles Dexter Lufkin, B.A., Minneapolis, Medicine
- Caroline Jane Lundberg, Duluth, Medical Technology**
- Carol Ruth Marquard, Litchfield, Medical Technology, WITH HIGH DISTINCTION**
- Mary Nellie Marquez, Santa Fe, N.M., Public Health Nursing
- Sidney William Maurer, Jr., B.A., Red Wing, Medicine
- Kay Eileen McComb, Blairsburg, Iowa, Medical Technology**
- Carol Ann McLimans, Sioux Falls, S.D., Medical Technology, WITH DISTINCTION**
- Walter Eugene Miller, B.A., Great Falls, Mont., Medicine
- Gerald Eugene Nelson, B.A., Deerwood, Medicine
- Robert Allen Olson, B.A., Windom, Medicine
- Alan Abbott Peterson, B.A., Minneapolis, Medicine
- Colette Jane Plaisted, Buffalo, Physical Therapy
- Susan Grace Proshek, St. Paul, Physical Therapy
- Thomas Peter Rohrer, Minneapolis, Medicine
- Barbara Ann Rosine, B.A., St. Paul, Medicine
- Gertrude Imada Sakamoto, Kahului, Maui, Hawaii, Public Health Nursing
- Elmer Robert Salovich, B.B.A., M.H.A., Minneapolis, Medicine
- Howard Laurence Schochet, B.A., St. Paul, Medicine
- Richard Clark Seelye, Robbinsdale, Medical Technology**
- Clark Allan Shattuck, B.A., Minneapolis, Medicine
- James Allen Silver, B.A., Tracy, Medicine
- Kay Dell Smith, Wolf Point, Mont., Physical Therapy, WITH DISTINCTION
- Thomas Alan Stengl, B.A., Rhineland, Wis., Medicine

** These degrees are conferred subject to the satisfactory completion of practical work prior to December 18, 1958.

- Marcia Jane Stenrud, St. Louis Park, Occupational Therapy, WITH DISTINCTION
- Thomas Allan Stolee, B.A., Minneapolis, Medicine
- Elizabeth Anne Stone, Minneapolis, Medical Technology**
- Vivianne Jeanette Swanson, A.L.A., Minneapolis, Medical Technology**
- Joan Carol Vickers, Minneapolis, Public Health Nursing
- Shirley Loken Wade, Minneapolis, Physical Therapy, WITH DISTINCTION
- Stuart Bates Walker, B.A., Virginia, Medicine
- Stephen Lightner Wangensteen, B.A. cum laude, M.D., Minneapolis, Medicine
- Bruce Huntington Warren, Duluth, Medicine
- Gilbert Dean Wasserzieher, A.A., Deerwood, Occupational Therapy
- Mary Kathleen Welcome, Mankato, Physical Therapy
- Lillian Elaine White, Caribou, Me., Occupational Therapy
- Lila Mavis Wicklund, Minneapolis, Medical Technology, WITH DISTINCTION**
- Karen Marjorie Wrabek, Anoka, Medical Technology**
- Ronald C. Young, A.A., B.A., Fargo, N.D., Medicine

Master of Hospital Administration

- Robert LeRoy Bakken, B.A., Fergus Falls
- George Metheral Booth, B.A., St. Paul
- Wesley E. Bushman, Temple, Tex.
- David Vern Damberg, B.A., St. Paul
- Lawrence McCormick Detmer, B.S., Great Bend, Kan.
- Malcolm Woodhams Hood, B.A., Buffalo, N.Y.
- William Elmer Johnson, Jr., B.S., Minneapolis
- John Roland Krismar, B.A., La Crosse, Wis.
- Carl Robert Larson, B.A., Scandia
- Ian Finlayson Manning, M.A., Glasgow, Scotland
- Richards Malvern Manuel, B.B.A., Minneapolis
- Virgil William Marsh, B.A., Spartanburg, S.C.
- Jack Charman McPhee, B.S., Phoenix, Ariz.
- Edmund Kelmer Nelson, B.S., Clifton, Tex.
- Lowell Eldon Palmquist, B.A., North Branch
- Allen Kenneth Peterson, B.B.A., Minneapolis
- Raymond John Schumacher, B.S., Binghamton, N.Y.
- Sister Mary Madonna, B.A., M.S.S.W., St. Paul
- Reginald Alfred Spindler, B.A., Minneapolis
- Robert Daryl Strathy, B.B.A., Minneapolis
- Lowell Miller Vandervort, B.A., Minneapolis
- James Cullen Ware, B.A., Ruston, La.
- Joel Thomas Watson, B.A., Houston, Tex.
- LeRoy Delbert Werley, Jr., B.S., Coopersburg, Pa.

Master of Nursing Administration

- Donna Elizabeth Domer, B.S., Minneapolis
- William G. Kellett, B.S.N.A., Ironwood, Mich.

** These degrees are conferred subject to the satisfactory completion of practical work prior to December 18, 1958.

Master of Public Health

- Bruce Duncan Adams, B.S., Anchorage, Alaska
Eleanor Marie Anderson, B.S., New York, N.Y.
Mildred Eugenia Barnett, B.S., Galveston, Tex.
Keith Daggitt Beilby, B.S., Lincoln, Neb.
Sardool Singh Bharara, B.S., M.B., D.P.H., Lucknow, India
Marie Louise Brouillette, B.S., Syracuse, N.Y.
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Olga Elsa Carreno, M.D., Mexico City, Mex.
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Adolf Matija Drolc, M.D., Yugoslavia
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George William Hanson, B.S., Fergus Falls
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Evelyn Louise Jernberg, B.S., Duluth
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Doctor of Medicine

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Rochester
Gerald James Anderson, B.A.,
Le Center
James McGillivray Anderson, B.A.,
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John Rutherford Anderson, B.A.,
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Paul Colwell Davidson, B.A., Minne-
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tain
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Gerald Andrew Gretsche, B.A.,
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Young Song Kim, B.S., Chonju,
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 Rodney Norman Langseth, B.S.,
 Duluth
 Ralph Julian Langsjoen, B.A.,
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 James William Larson, B.S., Roch-
 ester
 Donald Jerome Lawler, B.A., Crook-
 ston
 Thomas John Lehar, B.A., Minne-
 apolis
 Loren Richardson Leslie, B.A.,
 Chester, Iowa
 John Walton Lester, B.A., St. James
 John Isaac Levitt, B.A., St. Paul
 Charles Dexter Lufkin, B.A., Minne-
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 Walter Eugene Miller, B.A., Great
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 John Richard Mulder, B.S., Salmon,
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 wood
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 Robert Allen Olson, B.A., Windom
 Lavonne Mae Painter, B.S., Austin
 Paul George Patterson, B.S., Duluth
 Alan Abbott Peterson, B.A., Minne-
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 Glen Thomas Sawyer, B.A., B.S.,
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 Leonard Dean Schloff, B.S., St. Paul
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 Wayne Harold Schrader, B.A., North-
 field
 Clark Allan Shattuck, B.A., Minne-
 apolis
 James Allen Silver, B.A., Tracy
 George Stephen Smith, B.A., Duluth
 Robert Lloyd Stein, B.S., Pierz
 Thomas Alan Stengl, B.A., Rhine-
 lander, Wis.
 Thomas Allan Stolee, B.A., Minne-
 apolis
 Floyd J. Swenson, B.A., Eveleth
 Robert Sanfred Swenson, B.A.,
 Brooten
 Charles Eugene Thompson, B.S.,
 Minneapolis
 Eugenie K. Vitols, Minneapolis
 Stuart Bates Walker, B.A., Virginia
 Bruce Huntington Warren, B.A. *with*
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 Mark J. Wegleitner, B.S., St. Paul
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 Shashatcron, Idaho
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GRADUATE SCHOOL

Master of Arts

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B.A. *cum laude* '51, Concordia College. Major: Philosophy. Minor: Political Science. Thesis: On the Mimical: A Study in Johann Georg Hamann's Philosophy of Religion.

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B.A. *cum laude* '53, Macalester College. Major: Philosophy. Minor: English. Thesis: Judgment and Error in the Philosophy of Descartes.

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B.A. *magna cum laude* '54, University of Minnesota. Major: Anthropology. Minor: Philosophy. Thesis: The Value System of the Winnebago Indians.

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B.A. '53, University of Minnesota. Major: Speech and Theater Arts. Minor: English. Thesis: The History of Theater Touring at the University of Minnesota.

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B.A. '56, Gustavus Adolphus College. Field of Concentration: Speech and Theater Arts.

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B.A. '57, University of Minnesota. Major: History. Minor: French. Thesis: The Curia Regis in England Under the Anglo-Norman Kings, 1066-1135.

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B.A. '54, University of Michigan. Major: Philosophy. Minor: English. Thesis: Form and Symbol in Susanne K. Langer's Esthetics.

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B.A. '50, University of Manitoba; B.L.S. '52, University of Toronto. Field of Concentration: Library Science.

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B.A. '40, Northwestern College at Watertown. Field of Concentration: Psychology.

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B.A. *summa cum laude* '56, College of St. Thomas. Major: Philosophy. Minor: Latin. Thesis: The Ontological Status of the Primary and Secondary Qualities: The Teachings of Galileo, Locke, and Berkeley Compared and Contrasted with the Doctrine of St. Thomas Aquinas.

George Michael Keprios, Pequot Lakes

B.A. '48, B.S. '51, University of Minnesota. Field of Concentration: Educational Psychology.

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B.A. '56, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: The Religious Social System of the German-Catholics of the Sauk.

Delbert A. Kuehl, Hopkins

B.A. '41, University of Minnesota. Field of Concentration: History.

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B.A. '53, Augsburg College. Field of Concentration: History.

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

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B.A. *magna cum laude* '54, University of Minnesota. Major: Philosophy. Minor: Psychology. Thesis: Kierkegaard on Humor.

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

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

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B.A. '56, Yale University. Major: Biostatistics. Minor: Psychology. Thesis: The Development of Quantitative Measuring Techniques in the Evaluation of Machine Dishwashing Detergents.

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B.A. '50, University of California; B.S. '54, University of Minnesota. Field of Concentration: Area Studies: Scandinavia.

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B.A. *magna cum laude* '54, University of Min-
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fare. Thesis: The Assumption of Normality in
Statistical Work.

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B.A. '39, San Diego State College. Field of
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B.A. '56, University of Pennsylvania. Major:
Mathematics. Minor: Statistics. Thesis: Cer-
tain Examples of Finite Markov Chains.

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B.S. with distinction '50, University of Min-
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B.A. *cum laude* '55, University of Minnesota.
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B.A. '57, University of Minnesota. Major:
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A Study of the United States Information and
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B.A. '55, National Taiwan University. Field
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apolis
B.A. *summa cum laude* '50, Luther College.
Major: Philosophy. Minor: Political Science.
Thesis: The Philosophical Analysis of Reli-
gious Discourse: Some Themes in Its Develop-
ment Since the Time of A. J. Ayer's *Language,
Truth and Logic*.

Candido P. Zanoni, Minneapolis
B.A. '50, George Washington University. Ma-
jor: Philosophy. Minor: English. Thesis: An
Introduction to the Philosophy of Martin
Heidegger.

Master of Arts in Public Administration

Robert Goodman Bruce, Minneapolis
B.M.E. '44, University of Minnesota. Field of
Concentration: Public Administration.

Marjorie June Carpenter, St. Paul
B.A. '47, University of Minnesota. Major:
Public Administration. Thesis: Committees
Sponsored by the Hennepin County Com-
munity Welfare Council and Their Effect on
Government.

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

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B.A. '49, Moorhead State Teachers College. Major: Public Administration. Thesis: The Federal Budget Document: Development and Future Prospects.

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B.A. '51, University of Colorado. Major: Public Administration. Thesis: The Wisconsin State Building Program: A Study in Administrative Responsibility.

Master of Business Administration

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B.Sc. '51, University of Bombay. Field of Concentration: Business Administration.

James Elmer Klapmeier, Mora
B.A. *magna cum laude* '54, Ripon College; B.S. '54, Massachusetts Institute of Technology. Field of Concentration: Business Administration.

Master of Forestry

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

James Lowell Lindquist, Hector
B.S. '51, University of Minnesota. Field of Concentration: Forestry.

Master of Science

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B.A. '51, College of St. Benedict. Major: Physiological Chemistry. Minor: Anatomy. Thesis: Development of a Micro Method for the Determination of Hyaluronidase.

Mary Jane Buckman, Little Falls
B.S. with distinction '40, University of Minnesota. Major: Anatomy. Minor: Pathology. Thesis: A Study of the Blood and Blood-forming Organs of Fetal and Maternal Sheep and Goats.

Chater Sen Gelda, Jaipur, India
B.Sc.Ag. '48, Allahabad University. Field of Concentration: Dairy Husbandry.

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Iver Andrew Iversen, Minneapolis
B.A. '54, University of Minnesota. Field of Concentration: Biostatistics.

Joseph DeForest Ives, Clinton, Iowa
B.A. '56, State University of Iowa. Major: Agronomy. Minor: Plant Pathology. Thesis: A Test of the Randomness of Pollination and Performance of the Polycross Progeny of Six Clones of *Bromus inermis* Leys.

Roger Gary Johnson, Kindred, N.D.
B.S. '56, North Dakota Agricultural College. Field of Concentration: Agricultural Economics.

Robert William Kieckhefer, Milwaukee, Wis.
B.S. '55, University of Wisconsin. Major: Entomology. Minor: Botany. Thesis: The Biology of *Therioaphis riehmii* (Börner).

Eugene Allen LeFebvre, White Bear Lake
B.S. with distinction '52, University of Minnesota. Field of Concentration: Zoology.

Lou Robb Legried, Wadena

B.S. with high distinction '56, University of Minnesota. Major: Home Economics (Textiles). Minor: Home Economics (Family Life). Thesis: The Durability, Comfort, and Care Properties of Blouse Fabrics Composed of Blends or Combinations of Dacron and Cotton.

Julie Leotsinidis, Greece

B.Sc. '56, University of Alexandria. Field of Concentration: Analytical Chemistry.

Joan Carol Lindgren, Minneapolis

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

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Donald Charles Schmiede, Antigo,
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B.S. '52, University of Minnesota. Major: Entomology. Minor: Plant Pathology. Thesis: A Study of the Pine Root Collar Weevil with Particular Reference to Survey Methods.

Robert Wallace Seabloom, St. Paul

B.A. '53, University of Minnesota. Major: Fishery and Wildlife Management. Minor: Botany. Thesis: A Study of Production, Survival, and Movements of the Great Plains Muskrat (*Ondatra zibethica cinnamominus*) in North Dakota.

Yolanda Sto. Domingo-Sison, Manila,
Philippines

B.S. Chem. *summa cum laude* '54, The Philippine Women's University. Major: Agricultural Biochemistry. Minor: Botany. Thesis: Studies on the Chemical Properties of Toxic and Non-Toxic Soybean Oil Meal.

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B.S.A. '56, Ontario Agricultural College. Field of Concentration: Animal Husbandry.

Master of Science in Aeronautical Engineering

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David Stockbridge Chatterton,
Minneapolis

B.S. '56, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Theoretical Analysis of the Automatic Control of a Fluid Process.

Todd James Knapp, LaCrosse, Wis.

B.S. in Ch.E. '53, Northwestern University. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Radiation Dosimetry.

Kung-you Lee, Foochow, Fukien,
China

B.S. '44, Chinese National Ordnance Engineering College. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: The Effect of Longitudinal Mixing and Boundary Conditions in Countercurrent Extraction Columns.

Jean Claude Martin, Paris, France
Engineer '55, Ecole Polytechnic. Major: Chemical Engineering. Minor: Mathematics. Thesis: Neutron Flux Distribution in Reactor Cells.

Surendra Pal Singh, Aligarh, India
Graduate '49, Delhi Polytechnic; M.S. in Ch.E. '56, University of North Dakota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Burnout in Steam-Water Flow at 2,000 PSIA.

Master of Science in Civil Engineering

Mohd. Rashid Chaudhry, Lyallpur, Pakistan

B.E. (Civil) '51, University of Karachi. Field of Concentration: Civil Engineering.

Myung Sik Chung, Seoul, Korea

B.S. '55, Seoul National University. Field of Concentration: Civil Engineering.

Robert Loyd Gordier, Minneapolis

B.C.E. with distinction '51, University of Minnesota. Major: Civil Engineering (Hydro-mechanics). Minor: Civil Engineering (Sanitary Engineering). Thesis: Weirs for Controlling Velocities in Channels with Sides Sloped Part of the Depth.

Douglas Ashley Gordon, Robbinsdale

B.S. '55, University of Minnesota. Major: Civil Engineering. Minor: Geology. Thesis: The Effect of Type and Maximum Size of Coarse Aggregate Upon the Stability of Asphaltic Concrete.

Roger William Lindquist, Silver Spring, Md.

B.S. in C.E. '55, Oregon State College. Field of Concentration: Civil Engineering.

Khurram Jah Murad, Karachi, Pakistan

B.C.E. '53, University of Karachi. Field of Concentration: Civil Engineering.

Albert John Toddie, Jr., Rochester

B.C.E. with distinction '55, University of Minnesota. Major: Civil Engineering (Highway Engineering and Soils Mechanics). Minor: Civil Engineering (Structures). Thesis: A Laboratory Study of Ice Removal Utilizing a Circular Track.

Kian Chiong Yu, Cebu, Philippines

B.S. in C.E. '55, Mapua Institute of Technology. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Carson Blevins, Johnson City, Tenn.

D.D.S. '51, University of Tennessee. Major: Dentistry. Minor: Surgical Pathology. Thesis: Oral and Dental Manifestations of Reticulo-Endotheliosis (Histiocytosis "X").

David Paul Engleson, Benson

B.S. '54, D.D.S. '56, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: An Appraisal of the Teratogenic Potential of Cortisone and Desoxycorticosterone in the Developing Albino Rat.

Anna Tell Hampel, Minneapolis

D.M.D. '50, University of Heidelberg; D.D.S. '56, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Effects of Cavity Wall Surfaces Produced with Various Instruments on the Adaptability of Silver Amalgam as Tested with Calcium 45.

Harold Joseph Panuska, Minneapolis

B.S. '53, B.A. '53, D.D.S. '55, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Effects of Anticonvulsant Drugs, Particularly Dilantin Sodium, upon the Oral Mucosa.

Nathaniel Hawthorne Rowe, Minneapolis

B.S. '55, D.D.S. '55, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: The Effect of Vitamin A Deficiency Upon Experimental Oral Carcinogenesis.

Lloyd Henry Truax, Jr., Rochester

D.D.S. '51, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Development of the Postnatal Mouse Mandible as an Isologous Subcutaneous Transplant.

Master of Science in Dermatology and Syphilology

Ramon Michael Fusaro, Minneapolis

B.A. '49, B.S. '50, M.D. '53, University of Minnesota. Major: Dermatology and Syphilology. Minor: Pathology. Thesis: Histochemically Demonstrable Carbohydrates of Epidermal Appendageal Tumors.

Master of Science in Electrical Engineering

Harry Joseph Boll, Minneapolis

B.S. with high distinction '56, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Field Effects in Secondary Emission From Thin Films of MgO.

John Richard Fassett, Minneapolis

B.E.E. with distinction '56, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Germanium Crystals at Low Temperatures.

Alden Reynolds Galbraith, Minneapolis

B.E.E. with high distinction '56, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Low Voltage Thyratrons.

Herbert George Taus, Minneapolis

B.S. with distinction '54, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of the Factors Controlling the Performance of an Omegatron.

Master of Science in Mechanical Engineering

Lincoln Bruce Katter, Minneapolis

B.S. '56, University of Minnesota. Field of Concentration: Mechanical Engineering.

George Long, Minneapolis

University of Chicago; University of Minnesota. Field of Concentration: Mechanical Engineering.

John Donald Rom, Ely

B.S. with distinction '55, University of Minnesota. Major: Mechanical Engineering; Minor: Mathematics. Thesis: Drag Losses for Staggered Vee-Gutters.

Master of Science in Medicine

Harold Warren Evans, Milton, Pa.

M.D. '49, Cornell University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Acute and Subacute Interstitial Pancreatitis.

Harrison Morton Langrall, Jr.,
Marion, Ind.

B.A. '49, Johns Hopkins University; M.D. '53, University of Maryland. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Pathologic Gastro-Intestinal Findings in 135 Consecutive Cases of Death from Gastro-Intestinal Hemorrhage at the Mayo Clinic.

Clark Thomas Leavitt, Glenwood,
Alberta, Canada

B.A. '50, M.D. '54, University of Alberta. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Thrombotic Thrombocytopenic Purpura.

Charles George Moertel, Rochester

M.D. '53, University of Illinois. Major: Medicine. Minor: Pathology. Thesis: Multiple Primary Malignant Neoplasms.

Coolidge Shiro Wakai, Honolulu,
Hawaii

B.A. '49, Grinnell College; M.D. '53, University of Buffalo. Major: Medicine. Minor: Physiology. Thesis: Pathologic, Clinical, and Hemodynamic Study of Persistent Common Atrioventricular Canal (Congenital Heart Disease).

John William Worthington, Jr.,
Rochester

B.S. '46, Franklin and Marshall College; M.D. '50, Duke University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: An Evaluation of Hematoxylin Bodies as a Criterion for the Necropsy Diagnosis of Systemic Lupus Erythematosus.

Master of Science in Metallurgical Engineering

Benjamin Bruce Meckel, St. Paul

B.A. '52, Chico State College. Major: Metallurgical Engineering. Minor: Physics. Thesis: The Study of Crystal Imperfections by Cathodic Sputtering.

Master of Science in Neurosurgery

Matthew William Wood, Chattanooga,
Tenn.

M.D. '50, University of Tennessee. Major: Neurosurgery. Minor: Neuropathology. Thesis: The Relationship Between Anticoagulants and Hemorrhage in Experimentally Produced Cerebral Infarcts.

Master of Science in Ophthalmology

Douglas Leonard Johnson, Little Falls
B.S. '33, M.D. '34, University of Minnesota. Major: Ophthalmology. Minor: Pathology. Thesis: Retinoblastoma at the University of Minnesota Hospitals.

Martin Stephen Kazdan, Toronto,
Ontario, Canada

M.D. '54, University of Toronto. Major: Ophthalmology. Minor: Surgical Pathology. Thesis: Elevation of Choroid by Insertion of Polyvinyl Sponge: An Experimental Study.

Ralph Hugh Minor, Kennewick,
Wash.

B.S. '46, United States Naval Academy; M.D. '54, University of Washington. Major: Ophthalmology. Minor: Surgical Pathology. Thesis: Ocular Manifestations of Vertebral-Basilar Arterial System Occlusive Disease: A Clinical Study.

Master of Science in Orthopedic Surgery

Anthony Joseph Bianco, Jr., Rochester

B.S. '45, M.D. '49, University of Minnesota. Major: Orthopedic Surgery. Minor: Surgical Pathology. Thesis: Congenital Muscular Torticollis.

Master of Science in Pathology

Elmer Vernon Dahl, Los Angeles,
Calif.

B.S. '43, M.D. '52, University of Southern California. Major: Pathology. Minor: Hematology. Thesis: Testicular Lesions of Periarthritis Nodosa.

Welby Newlon Tauxe, Rochester

B.S. '46, M.D. '50, University of Tennessee. Major: Pathology. Minor: Clinical Pathology. Thesis: Cylindromas of the Paranasal Sinuses and Nasal Cavity.

Master of Science in Pediatrics

William Harry Weidman, Rochester

B.A. '46, M.D. '47, University of Colorado. Major: Pediatrics. Minor: Physiology. Thesis: A Study of Hemodynamic Alterations Associated with Atrial Septal Defect.

Master of Science in Radiology

George Daniel Davis, Rochester

B.S. '34, M.D. '38, Indiana University. Major: Radiology. Minor: Surgical Pathology. Thesis: Roentgenologic Pelvimetry.

Willard J. Howland, Jr., Rochester

B.S. '48, M.D. '50, University of Kansas. Major: Radiology. Minor: Pathology. Thesis: The Osseous Roentgenological Features of Cushing's Syndrome.

Master of Science in Surgery

Christiaan Neethling Barnard, Capetown, Union of South Africa

M.B., Ch.B. '46, M.D. '52, M.Med. '53, University of Capetown. Major: Surgery. Minor: Pathology. Thesis: The Aortic Valve Problems in the Fabrication and Testing of a Prosthetic Valve.

Richard James Botham, Madison,
Wis.

B.S. '50, M.D. '52, University of Wisconsin. Major: Surgery. Minor: Surgical Pathology. Thesis: Primary Mammary Sarcoma: A Clinico-Pathologic Study Including a Comparative Evaluation of Fibroadenoma with Sarcomatous-like Stroma.

Samuel James Kuykendall, Little
Rock, Ark.

B.A. '45, M.D. '49, Vanderbilt University. Major: Surgery. Minor: Surgical Pathology. Thesis: The Creation and Correction of Chronic Mitral Insufficiency in Dogs.

Francis Charles Nichols, Wood-
Ridge, N.J.

B.S. '48, Xavier University; M.D. '52, Loyola University. Major: Surgery. Minor: Surgical Pathology. Thesis: Florid Papillomatosis of the Nipple.

Eugene Ira Saxon, Los Angeles, Calif.

B.S. '47, M.D. '50, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: Factors Affecting Nutritional Status Following Gastrectomy with Particular Reference to the Innervated Segmental Resection.

Stephen Thorngate, Monterey, Calif.

B.A. '50, Milton College; M.D. '52, Western Reserve University. Major: Surgery. Minor: Pathology. Thesis: Effect of Tension on Healing Aponeurotic Wounds.

James Charles Vibert, Truro, Nova
Scotia, Canada

B.A. '51, M.D. '51, Dalhousie University. Major: Surgery. Minor: Surgical Pathology. Thesis: Cystic Duct Remnants.

Donald Edwin Wohlrabe, Springfield

B.A. '48, B.S. '49, M.D. '52, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: Studies of Antral Function Before and After Vagus Denervation.

Master of Science in Urology

Maung Kyaw Than, Rangoon, Burma
M.B., B.S. '49, Rangoon Medical College.
Major: Urology. Minor: Pathology. Thesis:
Experimental Study of Regeneration of the
Urinary Bladder in Dogs.

Master of Social Work

Claire G. Boskin, Minneapolis
B.A. *cum laude* '56, Brooklyn College. Field
of Concentration: Social Work.

Helen May Carlson, International
Falls
B.A. '56, St. Olaf College. Field of Concen-
tration: Social Work.

Ada Evangeline Cyrus, Minneapolis
B.A. '42, Hunter College. Field of Concen-
tration: Social Work.

Dorothy Jacqueline Fleming, Minne-
apolis
B.A. '49, St. Olaf College. Field of Concen-
tration: Social Work.

Donna J. Kumm, Spring Valley
B.A. '56, Luther College. Field of Concen-
tration: Social Work.

Edith Florene Pearson, Minneapolis
B.A. *cum laude* '53, University of Minnesota.
Field of Concentration: Social Work.

Alvin Rackner, St. Louis Park
B.S. '56, University of Minnesota. Field of
Concentration: Social Work.

Arthur Joseph Radcliffe, St. Paul
B.A. *magna cum laude* '46, College of St.
Thomas. Field of Concentration: Social Work.

Jessica Cherney Shulman, St. Paul
B.A. '35, Hunter College. Field of Concen-
tration: Social Work.

Sophie Mary Siganos, Sioux City,
Iowa
B.A. '52, Briar Cliff College. Field of Con-
centration: Social Work.

Helen Lucille Skalet, Moorhead
B.A. '54, Concordia College. Field of Con-
centration: Social Work.

Annalce Stewart, Minneapolis
B.A. '49, Illinois Wesleyan University. Field
of Concentration: Social Work.

Roger William Toogood, St. Paul
B.A. *cum laude* '56, College of St. Thomas.
Field of Concentration: Social Work.

Jay Reece Willett, Minneapolis
B.A. '51, Augsburg College. Field of Concen-
tration: Social Work.

James Leslie Williams, Rochester
B.A. '50, University of Minnesota. Field of
Concentration: Social Work.

Doctor of Philosophy

Arthur Adkins, Madison, Wis.
B.S. '42, St. Cloud State Teachers College;
M.A. '47, University of Minnesota. Major:
Education. Minor: Educational Psychology.
Thesis: A Program for the Preparation of Core
Teachers Based Upon a Survey of Teachers in
the Core Curriculum. Major Adviser: Prof.
N. J. Bossing.

Henrik Joakim Aune, Starbuck
B.S. with distinction '47, M.S. '53, University
of Minnesota. Major: Agricultural Economics.
Minor: Agricultural Education. Thesis: An
Economic Analysis of Labor Inputs in Dairy-
ing as Affected by Size of Herd and Types of
Equipment. Major Adviser: Prof. G. A. Pond.

Thomas Eugene Avery, Atlanta, Ga.
B.S.F. '49, University of Georgia; M.F. '50, Duke University. Major: Forestry. Minor: Geography. Thesis: Construction and Test of a Composite Aerial Volume Table for Southern Pines and Hardwoods. Major Adviser: Prof. M. P. Meyer.

Donald Gardner Baker, St. Paul
B.S. '49, M.S. '51, University of Minnesota. Major: Soils. Minors: Geology and Botany. Thesis: A Comparison of Two Evapotranspiration Calculation Methods and the Application of One to Determine Some Climatic Differences Between Great Soil Groups of Minnesota. Major Adviser: Prof. A. C. Caldwell.

Chi Chang, Minneapolis
B.S. '49, Massachusetts Institute of Technology. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Distribution Relationship in the Formation of Mixed Crystals of Barium-Lead Sulfate by Kinetically Controlled Precipitation. Major Adviser: Prof. I. M. Kolthoff.

Naomi Caroline Chase, Seattle, Wash.
B.A. '41, Western Washington College of Education; M.A. '52, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparative Study of the Word Recognition Abilities of Good and Poor Spellers in the Third Grade. Major Adviser: Prof. G. L. Bond.

Hulda Regehr Clark, Rosthern, Saskatchewan, Canada
B.A. '49, M.A. '50, University of Saskatchewan. Major: Zoology. Minor: Botany. Thesis: A Study of the Ion Balance of Crayfish Muscle; Evidence for Two Compartments of Cellular Potassium. Major Advisers: Profs. D. E. Minnich and H. B. Steinbach.

Truman Benton Clark, Jr., Minneapolis
B.A. '51, M.S. '53, University of Minnesota. Major: Zoology. Minor: Entomology. Thesis: A Comparative Serological and Morphological Study of the Family Trypanosomidae Doflein, 1901. Major Adviser: Prof. F. G. Wallace.

Robert Emil Danielson, Deer River
B.S. '53, M.S. '55, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Geomagnetic Measurements on Heavy Primary Cosmic Radiation Near the Equator. Major Adviser: Prof. E. P. Ney.

Jed Horace Davis, Jr., Stillwater
B.A. '47, M.A. '49, University of Minnesota. Major: Speech and Theater Arts. Minor: English. Thesis: The Art of Scenic Design and Staging for Children's Theater. Major Adviser: Prof. K. L. Graham.

Evelyn Dreier Deno, Minneapolis
B.S. with high distinction '48, M.A. '50, University of Minnesota. Major: Child Welfare. Minor: Psychology. Thesis: Changes in the Home Activities of Junior High School Girls Over a Twenty-Seven Year Period. Major Adviser: Prof. D. B. Harris.

Louis Stanley Diamond, East Riverdale, Md.
B.A. '40, University of Pennsylvania; M.S. '41, University of Michigan. Major: Zoology. Minor: Bacteriology. Thesis: A Study of the Morphology, Biology and Taxonomy of the Trypanosomes of Anura. Major Adviser: Prof. F. G. Wallace.

David Elder Donald, Glasgow, Scotland
B.V.Sc. '43, University of Edinburgh; M.R.C.V.S. '43, Royal (Dick) Veterinary College (Edinburgh). Major: Physiology. Minor: Surgical Research. Thesis: A Study of Right Ventricular Function. The Effects of Massive Infarction of the Myocardium of the Canine Right Ventricle. Major Adviser: Dr. H. E. Essex.

Gertrude McAdam Donat, Fargo, N.D.
B.S. '53, Concordia College; M.A. '54, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Factors Related to Measured Masculinity Among Students Majoring in Secondary Education. Major Adviser: Prof. D. G. Paterson.

Ibrahim Kutsi Ebcioğlu, Istanbul, Turkey
Graduate '45, Technical University of Istanbul. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Elastic and Plastic Buckling of Polygon-Shaped Plates Under Various Loadings and Simply Supported Boundary Conditions. Major Adviser: Prof. C. C. Chang.

Herbert George Ewan, St. Paul
B.S. '51, University of Wisconsin; M.S. '53, Marquette University. Major: Entomology. Minor: Plant Pathology. Thesis: Population Measurements and Host Damage Potential of the Saratoga Spittlebug. Major Adviser: Prof. A. C. Hodson.

Marvin Mark Fisher, Detroit, Mich.

B.A. '50, M.A. '52, Wayne University. Major: American Studies. Thesis: From Wilderness to Workshop: The Response of Foreign Observers to American Industrialization, 1830-1860. Major Advisers: Profs. Leo Marx and A. F. Tyler.

Byron Junius Gibbs, St. Paul

B.S. magna cum laude '46, College of St. Thomas; M.S. '50, University of Minnesota. Major: Zoology. Minor: Anatomy. Thesis: A Study of *Histomonas meleagridis*, a Protozoal Parasite Transmitted by a Nematode. Major Adviser: Prof. F. G. Wallace.

John Terence Gooding, Newport, England

B.Sc. '55, University of Wales. Major: Physics. Minor: Mathematics. Thesis: Proton Total Reaction Cross-Sections at 34 ± 2.5 MEV. Major Adviser: Prof. J. H. Williams.

Leonard Jason Greenberg, Swampscott, Mass.

B.S. '52, New England College of Pharmacy; M.S. '54, University of Rochester. Major: Physiological Chemistry. Minor: Pharmacology. Thesis: Quantitative Histochemical Distribution of Coenzyme A and Certain Phosphorous Compounds in the Rat Adrenal Gland in Various Functional States. Major Adviser: Prof. David Glick.

Celestino Pabello Habito, Lucena, Quezon, Philippines

B.S.A. '44, University of the Philippines; M.S. '52, University of Minnesota. Major: Education. Minor: Agricultural Education. Thesis: The Development of an Adult Farmer Education Program for the Philippines. Major Adviser: Prof. M. J. Peterson.

William Ashton Harris, Jr., Minneapolis

B.A. with honors '51, Talladega College; M.S. '53, University of Minnesota. Major: Mathematics. Minor: Mechanics and Materials. Thesis: A Boundary Value Problem for a System of Ordinary Linear Differential Equations Involving Powers of a Parameter. Major Adviser: Prof. H. L. Turriffin.

Paul Arthur Hedin, Maple Plain

B.S. '50, M.S. '53, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Products of Metabolism of Protein-Free Amino Acid Diets Fed to Rats. Major Adviser: Prof. M. O. Schultze.

Bancroft Clinton Henderson, Evansville, Ind.

B.A. '50, Oberlin College. Major: Political Science. Minor: Economics. Thesis: The Democratic National Committee. Major Adviser: Prof. A. N. Christensen.

Gerald Arthur Heuer, Bertha

B.A. '51, Concordia College; M.A. '53, University of Nebraska. Major: Mathematics. Minor: Statistics. Thesis: Algebraic Extensions of Banach Algebras. Major Adviser: Prof. B. R. Gelbaum.

Ganiyu Alade Jawando, Lagos, Nigeria

B.S. '54, Arizona State College; M.S. '55, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: The Role of Agriculture in the Economic Development of Nigeria. Major Adviser: Prof. P. M. Raup.

David Emerson Jones, Amherst, S.D.

B.S. '38, South Dakota State College; M.S. '39, Oklahoma Agricultural and Mechanical College. Major: Dairy Husbandry. Minor: Agricultural Economics. Thesis: The Relationships of Forage Feeding to Dairy Production Costs. Major Adviser: Prof. J. D. Donker.

Richard Kent Juberg, Minneapolis

B.S. with high distinction '52, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: On the Dirichlet Problem for the Equation $\Delta^2 U + U_t = 0$. Major Adviser: Prof. A. N. Milgram.

Tapeshwar S. Kashyap, Kapurthala, India

B.Sc. '50, Government Agricultural College (India); M.S. '56, University of Minnesota. Major: Animal Husbandry. Minor: Dairy Husbandry. Thesis: Relation of Complementary Milk to Production. Major Adviser: Prof. R. E. Comstock.

Stanley Benjamin Kegler, St. Paul

B.S. with distinction '50, M.A. '52, University of Minnesota. Major: Education. Minor: English. Thesis: A Comparative Study of the Size and Nature of Reading and Listening Vocabularies. Major Adviser: Prof. D. V. Smith.

Clark Andrew Kelly, Delmar, N.Y.

B.S. with special honors '46, University of Colorado; M.S. '51, Temple University. Major: Pharmaceutical Chemistry. Minor: Analytical Chemistry. Thesis: Polarographic Studies of 2,3-Dimercapto-1-Propanol (Bal) and the Reactivity of the Sulfhydryl and Disulfide Groups in Heat Denatured Albumin and Heated and Unheated Blood Serum. Major Adviser: Prof. Ole Gisvold.

Philip George Kirmser, St. Paul

B.Ch.E. '39, M.S. '44, University of Minnesota. Major: Mathematics. Minor: Chemical Engineering. Thesis: Initial and Boundary Value Problems Associated with the Partial Differential Equation $U_{xxxx} + U_t = 0$. Major Adviser: Prof. W. B. Fuiks.

Kenneth James Kraft, Hackensack

B.S. '52, Bemidji State Teachers College; M.S. '53, University of North Dakota. Major: Entomology. Minor: Botany. Thesis: A Revision of the Pachygasterinae (Diptera: Stratiomyidae) of North America North of Mexico. Major Adviser: Prof. E. F. Cook.

Ivo Nikolai Lambi, Toronto, Ontario, Canada

B.A. '52, M.A. '55, University of Toronto. Major: History. Minor: Political Science. Thesis: Free Trade and Protection in Germany, 1868-1879. Major Adviser: Prof. L. D. Steefel.

John Robert Lindbeck, Ely

B.S. with distinction '54, M.A. '55, University of Minnesota. Major: Education. Minor: Industrial Education. Thesis: A Framework for Research in Industrial Arts. Major Adviser: Prof. W. J. Micheels.

Michael Joseph Martell, Jr., Minneapolis

B.S. '54, University of Minnesota. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: The Synthesis of Some Isomeric Hydroxy-l-azabicyclononanes and Certain of Their Esters as Potential Spasmodic Agents. Major Adviser: Prof. T. O. Soine.

A. James McKnight, Arlington, Va.

B.A. '52, Brown University; M.A. '55, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Relations of Certain Home Factors to College Achievement. Major Adviser: Prof. D. G. Patterson.

Norman Willis Moen, Minneapolis

B.S. '41, M.A. '47, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Government of Scotland, 1603-1625. Major Adviser: Prof. D. H. Willson.

Ruby Norine Odland, Clarion, Iowa

B.A. '39, Iowa State Teachers College; M.A. '51, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparative Study of the Word Recognition Abilities of Good and Poor Readers in the Third Grade. Major Adviser: Prof. G. L. Bond.

Hans Pilhofer, Nuremberg, Germany

S.G.L. '50, Höhere Ackerbauschule (Germany); M.S. '52, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: The Interrelationship of Farm Mechanization and Organization in Decision Making. Major Adviser: Prof. S. A. Engene.

V. Subba Rao, India

B.Sc. '47, M.Sc. '50, Andhra University; M.S. '55, University of Minnesota. Major: Physical Chemistry. Minor: Analytical Chemistry. Thesis: Photochemical Study of Anthracene Derivatives. Major Adviser: Prof. R. S. Livingston.

C. Neale Ronning, Kenyon

B.A. '50, University of Minnesota; M.A. '51, University of California. Major: Political Science. Minor: Area Studies: Latin America. Thesis: The Legal Status of the Institution of Diplomatic Asylum in Latin America as Determined by Practice and Conventions. Major Adviser: Prof. C. H. McLaughlin.

Sheldon Rosenberg, Brooklyn, N.Y.

B.A. with honors '54, Brooklyn College; M.A. '56, University of Minnesota. Major: Psychology. Minor: Child Welfare. Thesis: Motivation, Set, and Number of Trials in Intentional and Incidental Learning. Major Adviser: Prof. M. A. Tinker.

James Roman Scherer, Las Vegas, Nev.

B.S. '53, St. Mary's College of California. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Infrared Intensities of $B_2^{10}H_6$ and $B_2^{10}D_6$. Major Adviser: Prof. Bryce Crawford, Jr.

Donald Everett Severson, Grand
Forks, N.D.

B.Ch.E. with distinction '41, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Evaporation Rates of Liquids to Flowing Gas Streams for Conditions of High Concentration Gradients. Major Adviser: Prof. E. L. Piret.

Charles Edward Stevens, St. Paul

B.S. '51, D.V.M. '55, M.S. '55, University of Minnesota. Major: Veterinary Physiology. Minor: Pharmacology. Thesis: Studies on the Reflex Regulation of the Ruminant Stomach, with Special Reference to the Eructation Reflex. Major Advisers: Profs. A. F. Sellers and C. M. Stowe.

Joel Sydney Torstenson, Minneapolis

B.A. '38, Augsburg College; M.A. '40, University of Minnesota. Major: Sociology. Minor: History. Thesis: The Development of an Institution: A Case History of the Midland Cooperatives Incorporated. Major Adviser: Prof. Lowry Nelson.

Forrest Leslie Vance, Chicago, Ill.

B.A. *cum laude* '52, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: Production of Learnable Drive in the White Rat by Exposure to Inaccessible Food. Major Adviser: Prof. W. A. Russell.

Theodore C. Volsky, Jr., Pittsfield,
Mass.

B.S. '51, M.S. '52, Kansas State College. Major: Psychology. Minor: Educational Psychology. Thesis: Modality of Word Association Test Responses as a Factor in Improving Counselor Predictions. Major Adviser: Prof. W. L. Layton.

Howard Hamilton White, Pocatello,
Idaho

B.A. '37, Boston University; M.A. '45, Oklahoma Agricultural and Mechanical College. Major: English. Minor: History. Thesis: The Image of Society in the Novels of William Dean Howells. Major Adviser: Prof. Theodore Hornberger.

Robert Melvin Worthington, St. Paul

B.S. '48, Eastern Kentucky State Teachers College; M.A. '49, University of Minnesota. Major: Education. Minor: Industrial Education. Thesis: Factors Affecting the Delayed Imitation of a Demonstrated Psychomotor Skill. Major Adviser: Prof. W. J. Micheels.

Paul Yuzyk, Winnipeg, Manitoba,
Canada

B.A. '45, M.A. '48, University of Saskatchewan. Major: History. Minor: Russian Literature. Thesis: The Ukrainian Greek-Orthodox Church of Canada, 1918-1951. Major Adviser: Prof. Herbert Heaton.

Richard Bernard Zoller, Stillwater

B.S. '53, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: The Vertical-Block Budgeting System—A New Farm Planning Technique. Major Adviser: Prof. G. A. Pond.

Doctor of Philosophy in Pediatrics

William Krivit, Minneapolis

M.D. '48, Tulane University. Major: Pediatrics. Minor: Anatomy. Thesis: The Use of Radioactive Chromium in Hemolytic Anemias. Major Adviser: Dr. R. A. Good.

Gunnar Brynolf Stickler, Munich,
Germany

M.D. '49, University of Munich. Major: Pediatrics. Minor: Physiology. Thesis: Studies Regarding the Pathogenesis of the Nephrotic Syndrome. Major Adviser: Dr. R. L. J. Kennedy.

Doctor of Philosophy in Surgery

Christiaan Neethling Barnard, Capetown, Union of South Africa

M.B., Ch.B. '46, M.D. '52, M.Med. '53, University of Capetown. Major: Surgery. Minor: Pathology. Thesis: Etiology of Congenital Intestinal Atresia. Major Adviser: Dr. O. M. Wangensteen.

Summary of Degrees Conferred by the University During the Academic Year 1957-1958

| | |
|---|--------------|
| Conferred July, August, and December, 1957; March, 1958..... | 2,483* |
| Conferred June, 1958 (subject to completion of requirements)..... | <u>3,016</u> |
| Total degrees conferred 1957-1958..... | 5,499 |

Academic Costume

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

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

At a commencement it is quite proper to wear the gown—but not the hood—appropriate for the degree which is to be received. The only hoods worn at commencements are for degrees which have already been received. Thus only those students and faculty members who have already received college or university degrees wear hoods. Anyone who has a degree from the Uni-

* Includes 72 conferred at Duluth.

versity of Minnesota may wear a hood decorated with a maroon chevron on gold background. The length and shape of the hood indicates whether the wearer has earned a Bachelor's, a Master's, or a Doctor's degree. The velvet edging on the hood indicates the field in which the degree was granted. For example, dark blue signifies Philosophy; light blue, Education; green, Medicine; lilac, Dentistry; orange, Engineering; russet, Forestry; drab, Business; olive green, Pharmacy; purple, Law; gray, Veterinary Medicine; golden yellow, Science; and white, Arts and Letters.

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

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

(In the order of march)

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

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

THE
UNIVERSITY OF MINNESOTA

Announces Its

July Commencement

1958



NORTHROP MEMORIAL AUDITORIUM
THURSDAY EVENING, JULY 17
AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumcier, Stillwater

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and seventh birthday. As from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded more than 138,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to more than 25,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members, who are county agents, home agents, and recreation and health consultants, give effective aid and assistance to citizens of the state in their very homes.

But the University of Minnesota, like all great universities, has expanded far beyond its early teaching and training programs. In its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, heart surgery, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, and 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 University Artists Course, the Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital to be constructed and for the great Mayo Memorial building to be completed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart diseases. Further contributions are making it possible for the University to build the Masonic Memorial Cancer Hospital and will make it possible, in the near future, to build the Veterans of Foreign Wars Cancer Research Center.

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

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

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

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

The summary financial statement of 1956-57 showed that the University received \$63,563,590.75 and spent \$63,559,225.93. This includes, of course, \$11,094,272.92 received from student tuition and fees, hospital and other departmental receipts; \$1,287,807.36 from intercollegiate athletics; \$11,900,800.04 from such services as dormitories and dining halls, printing, the laundry, University Press, Concerts and Lectures, University Theater, and Health Service, and from the revolving funds; and \$13,881,776.12 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research prizes, scholarships, and the care of the sick, as well as from the Permanent University Fund derived from land set aside by the Federal Government, and the occupational tax on iron ore. Also, \$2,269,805.06 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$63,559,047.72, which the University received for 1956-57, \$23,124,586.22 came from the state.

All students at the University, their families and friends are invited to continue their enthusiasm and interest in the University of Minnesota. Graduates are especially urged to identify themselves with the 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

ASSEMBLING OF THE AUDIENCE: As candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium, by Miss Kathryn Simpson, carillonneur. Admission to the July commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

ORGAN RECITAL: From 7:30 to 8:00 p.m., Mr. Richard Westenburg, B.M., Instructor in Music at Montana State University, will play:

| | |
|---|---------|
| "Trumpet Voluntary" - - - - - | Purcell |
| "Concerto No. 5 in F Major" - - - - - | Handel |
| Larghetto | |
| Allegro | |
| Alla Siciliano | |
| Presto | |
| "Scherzo" from Symphony No. 2 - - - - - | Vierné |
| "Variations on a Noël" - - - - - | Dupré |

PROCESSIONAL: "Now Thank We All Our God" - - - - - Bach

ON THE STAGE: As candidates for degrees enter the Auditorium at 8:00 p.m., the curtain will be opened. Seated on the platform, left to right, are:

Instructor Joseph W. Miller, M.A., English, Marshal; Associate Professor W. Donald Beatty, Ph.D., History, Marshal; Captain William B. Bennett, USAF, Instructor in Air Science; Professor Robert C. McClure, LL.B., Law School; Assistant Dean Roger B. Page, Ph.D., College of Science, Literature, and the Arts; Recorder True E. Pettengill, M.A., Admissions and Records; Dean Walter W. Cook, Ph.D., College of Education; Colonel Dean M. Benson, USA, Professor of Military Science and Tactics; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Theodore C. Blegen, Ph.D., Graduate School; The Very Reverend James P. Shannon, Ph.D., President, College of St. Thomas; President James Lewis Morrill, LL.D., University of Minnesota; Dean E. W. Ziebarth, Ph.D., Summer Session; Dean Horace T. Morse, Ph.D., General College; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Robert E. Summers, M.S., Admissions and Records; Colonel Robert O. Bowen, USMC, Professor of Naval Science; Dean Austin A. Dowell, Ph.D., College of Agriculture, Forestry and Home Economics of the Institute of Agriculture; Assistant Dean Russell M. Cooper, Ph.D., University College; Assistant Dean Reuel I. Lund, Ph.D., School of Business Administration; The Reverend Alvin G. Lewis, M.Th., Adviser to Lutheran students and staff members on the St. Paul Campus of the University of Minnesota; Professor Roy A. Schuessler, M.M., Music; Instructor Douglas M. Dearden, M.A., General College, Marshal.

Order of Events

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

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

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

INVOCATION: The Reverend Alvin G. Lewis.

SPEAKING FOR THE UNIVERSITY: President James Lewis Morrill.

COMMENCEMENT ADDRESS: The Very Reverend James P. Shannon, President, College of St. Thomas.

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

PRESENTATION OF CANDIDATES: Dean Ziebarth will introduce the deans of the several colleges, or their representatives, who will present to President Morrill the candidates for certificates and degrees in their respective colleges. They are, in order of their introduction: Dean Morse for the General College; Assistant Dean Page for the College of Science, Literature, and the Arts; Assistant Dean Cooper for University College; Dean Spilhaus for the Institute of Technology; Assistant Dean Dowell for the College of Agriculture, Forestry and Home Economics of the Institute of Agriculture; Dean Cook for the College of Education; Assistant Dean Lund for the School of Business Administration; Professor McClure for the Law School; Dean Howard for the College of Medical Sciences; and Dean Blegen for the Graduate School.

Order of Events

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

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

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

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

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

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

RECESSIONAL: Mr. Westenburg, Organist

Sinfonia from “Solomon” - - - - - Handel

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

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Second Lieutenant, Artillery

Wallace H. Hamilton, St. Paul

Donald R. Hazuka, Hopkins

Second Lieutenant, Infantry

Cedric Adams, Jr., Minneapolis

Gerald M. Lowe, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Robert Freeman Asleson, New Ulm

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

David L. Walstrom, St. Paul

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

James Milton Abrahamson, St. Paul

Raymond S. Petry, St. Paul

William Whitney Dredge, Eden Prairie

Jean Elizabeth Sawyer, Minneapolis

Kay Frances Forde, Minneapolis

William Joseph Walther, Minneapolis

Ronald Thomas Hilmo, Minneapolis

Jerome Morton Wexler, Minneapolis

David Dean McKenna, St. Paul

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Gerald William Burton, St. Paul
Raymond Herman Ehlers, Rose Creek
James Edward Schnobrich, New Ulm

Diana Joy Traube, Sioux Narrows,
Ontario, Canada
William Wellisch, Minneapolis

Bachelor of Arts

William Wells Barker, A.L.A., Minneapolis

Francis James Bassett, A.L.A., Mound

Michael Silvers Bearman, Minneapolis

Arthur Brede Berg, Minneapolis

Richard Andrew Borstad, Detroit
Lakes

Kenneth Alfred Branch, Minneapolis

Sylvia Joy Brown, Minneapolis, CUM
LAUDE

Janice Marie Carlson, Minneapolis,
MAGNA CUM LAUDE

Dorothy Rhoda Chamberlain, Minneapolis, CUM LAUDE

Gail Smith Clifton, Grand Marais,
CUM LAUDE

Sidney Lance Dale, Minneapolis

Robert Aaron Diamond, Minneapolis

William A. Dinham, Jr., Minneapolis

Douglas Tennyson Eaton, Minneapolis

Stephen Sanford Annis Faunce,
A.L.A., Minneapolis, CUM LAUDE

John Peter Fenney, A.A., St. Paul

Robert Lee Ferguson, Minneapolis

Michael James Forkins, White Bear
Lake

Perry Donald Galvin, A.A., St. Paul

James Walter Gawboy, Ely

Marilynne Elizabeth Ginther, Rock-
ford, Iowa

Sheldon Bernard Goldman, A.L.A., St.
Paul

Martin Thomas Golob, Hibbing

John Allen Grover, Duluth

James Allan Hagle, Minneapolis

Gilbert Nikolai Hanson, Minneapolis,
CUM LAUDE

Norman Paul Herman, St. Louis Park

Gordon Cecil Hetland, A.A., Henning

Lois Ann Hlavinka, A.L.A., Minne-
apolis

Noel Severin Iverson, New Ulm

Patricia Jo Doreen Jaster, Minneapolis

Charles Francis Kielkopf, St. Paul,

SUMMA CUM LAUDE

Barry Jay Kinneberg, St. Paul

James Arthur Lamson, White Bear
Lake

Bonnie Ruth Lecklee, Austin

Roman Michael Lehner, St. Paul

Arthur Joseph Loerzel, Perham

James John Malone, Minneapolis

Dawn Cecelia Margulies, Oakes, N.D.,
CUM LAUDE

Howard Sheldon Marker, Minneapolis

Robert Leslie Marrs, Minneapolis

Gordon Charles McCartney, Minne-
apolis

Virginia Louise McHugh, St. Louis
Park

Mary Anna McLaughlin, Austin, CUM
LAUDE

Don Thomas Miller, Wayzata

Winfield Scudder Mott, Excelsior

Ethel Lillian Neeser, A.L.A., St.
Cloud

Mae Arlene Nygard, Minneapolis

Bruce Lee Odenbach, Minneapolis

William Allan Olsen, Minneapolis

Patricia Ann Palmer, St. Paul, CUM
LAUDE

Robert James Pearson, Fort Frances,
Ontario, Canada

Thomas Vere Phillips, Minneapolis

Audrey Mae Phillips, Rivertown, Md.,
CUM LAUDE

Peter John Purdy, Minneapolis

Donald Wilson Quinlivan, St. Paul

Howard Joel Schlaifer, Minneapolis

James Edward Schnobrich, New Ulm

Richard Leo Schroer, St. Paul

Allan Gust Schwartz, St. Paul

Willard Bromberg Shapira, Minne-
apolis
Jerroldine Margo Sundby, A.A.,
Minneapolis
Richard Charles Thompson, Stillwater

William George Wilkowske, Minne-
apolis
Grenith Johnson Zimmerman, Luck,
Wis.

UNIVERSITY COLLEGE

Bachelor of Arts

Anne Marie Helen Alt, Anoka
Bernice Jane Johnson, Minneapolis

Thomas Gordon Kaufmann, Minne-
apolis

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Richard Aasen Damerow, Elk River,
WITH HIGH DISTINCTION
Bruce John De Grasse, Osseo, Wis.

*Lawrence Anthony Liddiard, Minne-
apolis, WITH DISTINCTION*
Lloyd Dennis Lubinski, Minneapolis,
WITH HIGH DISTINCTION

Bachelor of Architecture

Gary Floyd Jensen, Devils Lake, N.D.

Bachelor of Chemistry

William Howard Engelmann, St. Paul

Bachelor of Electrical Engineering

Arnold Arthur Beck, Fergus Falls
James Barton Dietel, Hawkeye, Iowa,
WITH DISTINCTION
Fred Franklin Forbes, Minneapolis

Emmett Norbert Kuklock, Minne-
apolis
James David Pribble, Minneapolis
James Carl Tuma, Minneapolis

Bachelor of Geological Engineering

Wendell Verner Tangborn, Bemidji

Bachelor of Geophysics

Jon Richard Peterson, A.A., Jamestown, N.Y.

Bachelor of Mechanical Engineering

Deem Jayr Benepe, St. Paul
Albert Abram Dreis, St. Paul
Wallace George Hamilton, West
St. Paul

John Stephen Patten, Jr., Superior,
Wis.
Jerome Donald Phillips, St. Paul

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

Bachelor of Science

Robert Nicholas Bredemus, St. Paul,
Agriculture
Jerome Lyle Cyphers, Blue Earth,
Agriculture
Robert George Daniel, St. Cloud,
Agriculture
Roger James Forbord, Danvers, Agri-
culture, WITH HIGH DISTINCTION
Anne Elizabeth Hammill, Minne-
apolis, Agriculture
Frederick William Hoelzel, Jr., St.
Paul, Forestry

Roger Bond Martin, Detroit Lakes,
Agriculture, WITH HIGH DISTINCTION
Lois Arlene McFarlane, Minneapolis,
Home Economics
Catharine Dasuvich Rodda, Bovey,
Home Economics
Marlyce Ruth Stark, A.A., Angus,
Home Economics
Joyce Marie Snow Tumbleson, Kasson,
Home Economics

COLLEGE OF EDUCATION

Bachelor of Science

Arvilla E. Shaum Alberts, St. Paul
Park
Doris May Allen, R.N., Philadelphia,
Pa., WITH DISTINCTION*
Wendell Conrad Anderson, B.A., St.
Paul
Lydia R. L. Alward, South Bend, Ind.
Mary Elizabeth Pratt Bichner,
St. Paul, WITH DISTINCTION
Margaret Luecke Blankenship, Pierre,
S.D.
Margaret M. Brochhagen, Pine River
Barbara Fay Ware Campbell, Minne-
apolis
Barbara Helen Carson, Washington,
Conn., WITH DISTINCTION*
George John Chlebecek, Minneapolis
Catherine G. Comerford Connors,
Minneapolis, WITH DISTINCTION
Eleonora Carlson Conrad, Minne-
apolis, WITH DISTINCTION

Carol Leona Ostrom Cover, Minne-
apolis
Charles A. Dolinar, Chisholm, WITH
DISTINCTION
Virginia Eileen Dregger, Minneapolis
George Barakat Droubie, St. Paul
John William Dryer, Minneapolis
Carol Newman Dufeck, St. Paul,
WITH DISTINCTION
Cecelia Dorothy Dulas, Minneapolis
Julia L. Field Dunsworth, B.B.A.,
Minneapolis
JoAnn Eline Femrite, Minneapolis
Mildred Elaine West Foss, Minne-
apolis
Philip Luverne Foster, Battle Lake
Gertrude Erna Gochring, Sanborn,
WITH DISTINCTION
Lucille Blanch Groh, Minneapolis
Ramona Gail Gunner, A.A., Minne-
apolis

* Nursing Education Curriculum.

Betty Ruth Mattson Hardle, Coon Rapids, WITH DISTINCTION
 David Eugene Herbold, Anoka
 Gea Elaine Hjelm, Vienna, S.D.
 Arlene Hoppe, Crystal Bay
 Kathleen Elizabeth Huizenga, Muskegon, Mich., WITH DISTINCTION*
 Melvin Lee Jacobson, Minneapolis
 Mary Annette Jensen, Northfield
 Norma Louise Johnson, Minneapolis
 Mary Jane Stech Kalal, Prior Lake
 Theodore Jay Kaul, Owatonna
 Helen Joan Kempf, Duluth
 Sheryl Jane Knutson, A.A., Dolliver, Iowa
 Annie Krussow, Minneapolis, WITH DISTINCTION
 Joseph Michael Lapinski, Minneapolis
 Kay Meryon Kneen Leigh, Minneapolis, WITH DISTINCTION
 Nicholas David Lindheim, Lubeck, Germany
 Margaret Bergskold Lindstedt, St. Paul
 Lezlie Faith Lund, Minneapolis
 Carol Eileen Lundblad, Minneapolis, WITH HIGH DISTINCTION
 Lottie Elaine T. Magelssen, Minneapolis
 Mary Forkner McCoy, Minneapolis
 James Keith McIntyre, Minneapolis
 Carol Jacobsen Meixner, Hopkins
 Carol Ann Moline, Excelsior
 Evelyn Anderson Moore, Minneapolis
 Nancy Jane Morrison, Excelsior
 Lois Nelson Moylan, Minneapolis, WITH DISTINCTION
 Aleda Bucher Muller, Minneapolis, WITH DISTINCTION
 Anne F. Murray, Deephaven
 John Eugene Norick, Baltimore, Md.
 Marion Ida Olson, Minneapolis
 Edward Ozga, A.A., Minneapolis
 Marcia Jean Paradis, Minneapolis
 Charles Ray Peterson, Red Wing
 Diane Fay Peterson, Mound
 Philip Peter Petrou, M.A., B.A., Minneapolis
 Virginia Ann Rankin, Edina
 Jeanette Cleath Reed, Minneapolis
 Gracia Lee Ripple, South Bend, Ind., WITH DISTINCTION*
 Robert Doke Robinson, B.A., Minneapolis
 Miriam Weiner Rosenberg, St. Paul
 Carol Eileen Sandgren, Chisago City
 Grace A. Schaefer, Minneapolis
 Amy Ann Butt Schein, St. Paul, WITH HIGH DISTINCTION
 Thelma Mary Lutgen Schneider, Hopkins
 Blanche Christofferson Schwab, B.A., Minneapolis
 Muriel Edith Alwin Sellers, Minneapolis
 Helen Margaret Swedzinski, Taunton, WITH DISTINCTION
 Laszlo Szendrey, St. Paul
 Frances Arlene Temple, New Ulm, WITH DISTINCTION*
 Betty Jane Threinen, St. Paul
 Peggy Ann Vaughn, Gary, Ind.
 Ida Warshay, Minneapolis
 Janice Marie Wickoren, St. Paul
 Grace Evangeline Winch, Minneapolis
 Gladys Darlene Woodke, Morris
 Jeanette Elizabeth Wroge, Minneapolis
 William Yurista, Minneapolis
 Valery Phyllis Rucke Zubrycki, Robbinsdale

Master of Education

Patricia Farrell, B.S., State College, Pa.
 Don LaVerne Finlayson, B.S., St. Paul
 Lowell Martin Handberg, B.S., Minneapolis
 Florence Marvel Nelson, B.S.N., Ostrander
 Sister Anne Joachim Moore, B.S., B.S.L., St. Paul
 Sister Mary Eudes Klein, B. S., Rochester
 Diana Mae Tollefson, B.S., Lead, S.D.
 William Charles Wendlandt, B.A., Spencer, Iowa

* Nursing Education Curriculum.

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

Bachelor of Science

| | |
|---|---|
| Avis Marie Gabrielson, Lindstrom, Home Economics Education | Barbara Nelson, Hills, Home Econom- ics Education |
| Mary Suzann Hedlund, Pine River, Home Economics Education | Mary Peake Oakland, Minneapolis, Home Economics Education |
| Norlin Albert Hein, New Albin, Iowa, Agricultural Education | Emma Jean Ollanketo, Minneapolis, Home Economics Education, WITH DISTINCTION |
| Lois Ballinger Hoeft, Racine, Home Economics Education, WITH HIGH DISTINCTION | Marjorie Louise Petrich, Glencoe, Home Economics Education, WITH HIGH DISTINCTION |
| Richard Benjamin Long, Forest Lake, Agricultural Education | Jean Frances Sylvester, St. Vincent, Home Economics Education |

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

| | |
|---|---|
| Charles Andrew Bellinger, Willmar | David Peter Langevin, Hankinson, N.D. |
| Julius Francis Bonello, Minneapolis | Gerald Master Lowe, St. Paul |
| James Edwin Brunner, Gibbon, WITH HIGH DISTINCTION | Gerald James Mevissen, Minneapolis |
| Glen Thomas Buchman, Minneapolis | August Joseph Miller, Lake Placid, N.Y. |
| Martin Victor Chorzempa, Jr., Minne- apolis | Richard Allan Nelson, Minneapolis |
| Marion L. Dawson, Fairmont, WITH DISTINCTION | John Vincent Oyen, Fergus Falls |
| Theodore Peter Dick, Minneapolis | Elliot Takaaki Ozu, Honolulu, Hawaii |
| Lawrence McKean Engel, Rochester | Roger George Putnam, Minneapolis |
| Roger N. Eull, Elk River | Vernon Charles Rainey, Biwabik |
| Ronald Merton Fishman, St. Paul | Frederick David Richter, Litchfield |
| James David Fox, Wadena | Roy Eugene Shephard, Winnebago |
| James Raymond Gooden, A.A., Min- neapolis | Richard Preston Shumway, Pine City |
| Thomas Andrew Hall, A.L.A., Water- ville | Theodore Andrew Spiess, Minneapolis |
| Richard William Hansen, St. Paul, WITH DISTINCTION | Roger Duane Waller, Minneapolis |
| Marshall Richard Hanson, Minneapolis | Thomas Ralph Walther, Minneapolis |
| Donald Ray Hazuka, Hopkins | John Harold Westerman, B.S.L., Minneapolis |
| | John Peter Yackel, Sanborn |
| | Robert Joseph Zinnel, Worthington |

Bachelor of Science in Economics

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|-----------------------------------|--|
| Elwood Wayne Drehmel, Minneapolis | Harold Mikkell Kelly, Devils Lake, N.D. |
|-----------------------------------|--|

LAW SCHOOL

Bachelor of Laws

Dennis Lloyd Thuftedal, B.S.L., Minneapolis

Master of Laws

John Ogden Rames, B.A., LL.B., Laramie, Wyo.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing Administration

Audrey Irene Hansen, St. Paul

Gloria Augusta Swanberg, Grantsburg, Wis., WITH HIGH DISTINCTION

Bachelor of Science

Loren Alden Anderson, Ponsford,
Medicine

David William Bean, Minneapolis,
Medicine

Argie Virdean Alexander Burton, Ft.
Worth, Texas, Public Health Nursing

William Lloyd Christian, Adrian,
Medicine

Daniel L. de Werd, Olivia, Medicine

Robert Aaron Diamond, Minneapolis,
Medicine

William Benit Eilers, Redwood Falls,
Medicine

James Jay Garber, Mankato, Medi-
cine

Norman Paul Herman, St. Louis Park,
Medicine

Corrin John Hodgson, Minneapolis,
Medicine

Howard Pierre Hyde, B.S., Minne-
apolis, Medicine

Charles Edward Keenan, Jr., St. Paul,
Medicine

Thomas Patrick Kenefick, St. Paul,
Medicine

William Nicholas Kinney, St. Paul,
Medicine

Pearl D. Klapat, R.N., Wausau, Wis.,
Public Health Nursing

Thaddeus Joseph Lelwica, Winona,
Medicine

Charles Bennett Mercil, B.A., Crook-
ston, Medicine

Richard Edward Olson, Willmar,
Medicine

Richard George Rowe, Grand Rapids,
Medicine

Peter Allan Schunk, Sheridan, Wyo.,
Medicine

Yoshiko Shimamoto, Minneapolis,
Public Health Nursing

Mary H. Stolze, Minneapolis, Public
Health Nursing

Richard Erwin Streu, B.A., Minne-
apolis, Medicine

Charlene Doris Tuurie, Aurora, Pub-
lic Health Nursing

GRADUATE SCHOOL

Master of Arts

- Doris Newsome Alston, Tallahassee, Fla.
B.S. with greater distinction '52, Florida A. and M. College. Field of Concentration: Curriculum and Instruction.
- Helen Catherine Ambrose, St. Paul
B.S. '51, Wisconsin State College at Eau Claire. Field of Concentration: Curriculum and Instruction.
- Curtis James Anderson, Minneapolis
B.A. '52, B.S. '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Richard Christian Bauer, Alexandria
B.S. '48, B.S. in L.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Marvin Robert Bloomquist, Fergus Falls
B.A. *cum laude* '53, B.Mus. *cum laude* '54, Northwest Nazarene College. Field of Concentration: Music.
- George Paul Blum, Minneapolis
B.A. *summa cum laude* '56, Hamline University. Field of Concentration: History.
- Helene Rose Borseth, Minneapolis
B.S. with distinction '55, University of Minnesota. Field of Concentration: Music.
- Gabriel Noah Brahm, Worcester, Mass.
B.A. '56, Columbia University. Field of Concentration: English.
- Catherine Alice Budewitz, Minneapolis
B.A. '35, College of St. Catherine. Field of Concentration: Library Science.
- Phyllis Charles, Phoenix, Ariz.
B.A. '48, University of Arizona. Field of Concentration: Curriculum and Instruction.
- Dale Amandus Chelberg, Braham
B.A. '50, Gustavus Adolphus College. Major: Zoology. Minor: Botany. Thesis: A Study of the Eubranchiopoda of Minnesota.
- Charles Jerome Christianson, Austin
B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Grace Reilly Doherty, St. Louis Park
B.S. with distinction '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Jerome Henry Dols, Minneapolis
B.B.A. '56, University of Minnesota. Field of Concentration: Industrial Relations.
- John Duncan Drummond, Eau Claire, Wis.
B.A. '52, University of Minnesota. Field of Concentration: Political Science.
- Robert John Falk, Duluth
B.A. '50, University of Minnesota. Field of Concentration: Educational Psychology.
- Albert Freireich, Duluth
B.A. '55, City College of New York. Field of Concentration: Education.
- Arnold Lawrence Goldman, West Hartford, Conn.
B.A. '54, University of Connecticut. Field of Concentration: English.
- Carolyn Marie Gottneid, Omaha Neb.
B.A. '49, University of Omaha. Major: Library Science. Minor: Sociology. Thesis: A Study of Book Advertising in the *Saturday Evening Post* from 1899-1949.
- Rudolph August Grunloh, St. Paul
B.E. '33, St. Cloud State Teachers College. Field of Concentration: Industrial Education.
- Mildred Adeline Haaland, St. Louis Park
B.S. '53, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction.
- George Donald Hanrahan, Milwaukee, Wis.
B.S. '54, Marquette University. Field of Concentration: Economics.

Donald Andrew Hansen, Minneapolis
B.A. '55, University of Minnesota. Field of Concentration: Journalism.

Augustus Gyude Hare, Liberia, Africa
B.S. '55, College of Our Lady of Fatima. Field of Concentration: Educational Psychology.

Ruth M. R. Hart, Howard, S.D.
B.S. '55, General Beadle State Teachers College. Field of Concentration: Curriculum and Instruction.

Herbert Heidelberger, New York, N.Y.

B.A. '55, New York University. Major: Philosophy. Minor: Psychology. Thesis: The Verification Theory of Meaning.

Agnes Caroline Hinman, St. Paul
B.S. with distinction '50, University of Minnesota. Field of Concentration: Education.

Harlan James Hogsven, Echo
B.A. '52, St. Olaf College. Field of Concentration: Industrial Relations.

Howard Finnell Huelster, St. Paul
B.A. '49, Macalester College. Field of Concentration: Education.

Fred Arnold Johnson, Minneapolis
B.A. *cum laude* '52, B.S. '54, University of Minnesota. Field of Concentration: Education.

William Harry Kemp, Grove City
B.S. '54, St. Cloud State Teachers College. Field of Concentration: Industrial Education.

Herbert Eugene King, Ortonville
B.S. '52, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Bernadette Ann Kraemer, Minneapolis
B.A. '55, College of St. Benedict. Field of Concentration: English.

Han Cho Lec, Seoul, Korea
B.A. '54, Seoul National University. Major: Philosophy. Minor: Psychology. Thesis: Phenomenalism and Subjunctive Conditionals. (A Study of Certain Aspects of the Development of A. J. Ayer's Theory of Knowledge.)

Myrtle Evelyn Legaarden, Sunburg
B.S. '55, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Vincent Bernard Lorson, Kansas City, Mo.

B.S. in B.A. '56, Central Missouri State College. Field of Concentration: Industrial Relations.

Eugene Garnet Mammenga, Oregon, Ill.

B.S. '53, St. Cloud State Teachers College. Field of Concentration: History.

Harold Austin Meeks, Wallingford, Conn.

B.A. '56, Middlebury College. Field of Concentration: Geography.

Myrtle Stenberg Murray, Minneapolis
B.S. '44, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Frank Gerald Nordlie, New London
B.S. '54, St. Cloud State Teachers College. Major: Zoology. Minor: Botany. Thesis: Some Effects of Instantaneous Changes in Temperature on Rate of Oxygen Consumption in the Fathead Minnow, *Pimephales promelas* (Raf.)

Gordon J. Oberg, Manistique, Mich.
B.A. '50, Augsburg College. Field of Concentration: Educational Administration.

Gerald Joseph Olerud, Rochester
B.B.A. with distinction '57, University of Minnesota. Field of Concentration: Industrial Relations.

Robert Maynard Pirsig, Bethel
B.A. '50, University of Minnesota. Field of Concentration: Journalism.

Carole Peterson Preus, Minneapolis
B.A. '53, St. Olaf College. Major: Music. Minor: Music Education. Thesis: Rhythmic Analysis of Purcell's Setting of the English Language According to the Musical Forms of His Day.

George B. Richter, St. Cloud
B.Physics '50, University of Minnesota; B.A. '51, St. John's University at Collegeville. Field of Concentration: Education.

Allan Richard Roby, St. Paul
B.S. with distinction '52, University of Minnesota. Field of Concentration: Music.

Elmer Ervin Salvog, Aitkin
B.S. '48, University of Minnesota. Field of Concentration: Educational Administration.

Marilyn Jean Schaefer, St. Paul

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

Carl Frederick Selmer, Jr., Laramie, Wyo.

B.Aero.E. '45, University of Minnesota; B.A. '48, University of Wyoming. Field of Concentration: Educational Administration.

Alex Simirenko, Minneapolis

B.A. '57, University of Minnesota. Major: Sociology. Minor: Russian. Thesis: Aspect of the Social and Ideological Adjustment of the Russian Community in Minneapolis.

Carroll Ivar Stein, Minneapolis

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

Carol Stromberg, Minneapolis

B.A. '54, B.S. '55, University of Minnesota. Field of Concentration: Library Science.

Marianne Thode, Minneapolis

B.A. '55, St. Mary's College at Notre Dame. Field of Concentration: French.

Robert Earl Thurston, Minneapolis

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

Leonard Charles Tysver, Minneapolis

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

Frances Eleanor Van Cleave, Montgomery, Ala.

B.A. with distinction '56, Southwestern at Memphis. Field of Concentration: Journalism.

Lowell Roger Wilbur, Spencer, Iowa

B.A. cum laude '51, Buena Vista College. Field of Concentration: Library Science.

Irene Ernestine Woods, Faribault

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

Charles Spencer Wright, Oak Park, Ill.

B.A. '55, University of Chicago. Field of Concentration: Psychology.

Master of Arts in Public Administration

Karl Nelson Snow, Jr., Provo, Utah

B.S. '56, Brigham Young University. Major: Public Administration. Thesis: A Case Study of Minnesota's Department of Labor and Industry.

Master of Business Administration

Richard Lima Norgaard, Minneapolis

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

Master of Forestry

Gerald William Anderson, Minneapolis

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

David Walter Myhre, Battle Lake

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

Master of Social Work

- Marvin Lionel Bienstock, Mt. Vernon, N.Y.
B.A. '56, University of California. Field of Concentration: Social Work.
- Ronald Chester Bounous, St. Paul
B.A. '56, University of Minnesota. Field of Concentration: Social Work.
- Arlene Doris Eke, Bruce, Wis.
B.A. '56, University of Minnesota. Field of Concentration: Social Work.
- Warren Conrad Haggstrom, Minneapolis
B.A. *summa cum laude* '49, University of Minnesota. Field of Concentration: Social Work.
- Jeanette Hofstce, Groningen, Netherlands
Graduate '52, School of Social Work (Holland). Field of Concentration: Social Work.
- Mabel Arlene Huber, Albert Lea
B.A. '55, University of Minnesota. Field of Concentration: Social Work.
- Sato Iwamoto, Tokyo, Japan
B.A. '57, University of Minnesota. Field of Concentration: Social Work.
- Eduard Byorum Kilcn, Lakefield
B.A. '56, Augustana College at Sioux Falls. Field of Concentration: Social Work.
- Clarence Donald LaVoie, Minneapolis
B.A. '50, University of Minnesota. Field of Concentration: Social Work.
- Lucille Falk Miller, Minneapolis
B.S. with distinction '43, University of Minnesota. Field of Concentration: Social Work.
- John Milton Peterson, Jr., Cloquet
B.A. '55, University of Minnesota. Field of Concentration: Social Work.
- Nolan Joseph Rindfleisch, South St. Paul
B.A. '50, College of St. Thomas. Field of Concentration: Social Work.
- Margaret Jean Rowan, St. Paul
B.A. '52, University of Minnesota. Field of Concentration: Social Work.
- Vernell LaVonne Stephens, Decorah, Iowa
B.A. '50, Luther College. Field of Concentration: Social Work.

Certificate of Specialist in Education (School Administration)

- Ove Utoft Johansen, Sarasota, Fla.
B.S. '39, M.A. '46, University of Minnesota.
Field of Concentration: Educational Administration.

Master of Science

- David D. Alt, Kirkwood, Mo.
B.A. '55, Washington University. Major: Geology. Minor: Geophysics. Thesis: A Review of the Geology of Rainy Lake.
- Jeannette Elizabeth Brown, Staten Island, N.Y.
B.A. '56, Hunter College of the City of New York. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: A Study of Dye and Ylid Formation in Salts of 9-(*p*-Dimethylaminophenyl) Fluorene.
- George Vincent Bulin, Jr., Bellmore, N.Y.
B.S. *cum laude* '56, Syracuse University. Major: Geology. Minor: Geophysics. Thesis: The Role of Sericite in Hydrothermal Alteration.
- Curtis Alan Bury, Minneapolis
B.A. '56, University of Minnesota. Major: Geology. Minor: Petroleum Engineering. Thesis: The Geology of the Cedar Mountain Complex, Minnesota River Valley.

Der-Fen Chen, China

B.S. '54, National Taiwan University. Major: Plant Pathology. Minor: Agricultural Biochemistry. Thesis: Some Biological Effects on *Eremothecium ashbyii* by Polonium²¹⁰ and Ultraviolet Radiations.

Roger M. Cole, Kent, Ohio

B.S. '56, Kent State University. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Shock Waves in Chemical Kinetics: The Hydrogen-Bromine Reaction.

Robert Frederick Derr, Flourtown, Pa.

B.S. '55, Pennsylvania State University. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Amino Acid Excretion of Rats Fed Chemically Defined Diets.

Hamilton Emmons, Hamble, England

B.A. *cum laude* '52, Harvard College. Major: Mathematics. Minor: Electrical Engineering. Thesis: An Asymptotic Expansion of the Function $\int_0^h e^{-ht} f(x,y) dx dy$ as $h \rightarrow \infty$.

Walter James Garmoe, Glendive, Mont.

B.A. '50, Montana State University. Major: Geology. Minor: Mining Engineering. Thesis: A Preliminary Study of the Mississippian and Lower Pennsylvanian Formations in the Park City District, Utah.

William Arthur Haglund, St. Paul

B.S. '53, University of Minnesota. Major: Plant Pathology. Minor: Horticulture. Thesis: Nematodes Associated with Peas in Minnesota and Their Effect on the Development of Root Rot and Yield.

James Victor Higgins, Wyandotte, Mich.

B.S. '54, Michigan State College. Major: Zoology. Minor: Biostatistics. Thesis: A Genetic Study of Intelligence of the Nam Family in Minnesota.

Rita Ann Horner, Washburn, Wis.

B.S. '56, University of Wisconsin. Major: Botany. Minor: Zoology. Thesis: A Study of the Taxonomic Validity of *Callophyllis crenulata* Setchell and *Callophyllis edentata* Kylin.

Fred Edward Lux, Sauk Centre

B.S. with distinction '53, University of Minnesota. Major: Fishery and Wildlife Management. Minor: Biostatistics. Thesis: An Investigation of the Causes of Seasonal Changes in Angler Success in Linwood Lake, Minnesota.

Lawrence Allen Neimark, Minneapolis

B.S. '56, University of Minnesota. Major: Metallurgy. Minor: Physical Chemistry. Thesis: Low Temperature Recovery Phenomena in Cold-Worked Tungsten.

Harlan Hugh Roepke, St. Paul

B.A. '53, University of Minnesota. Major: Geology. Minor: Geophysics. Thesis: The Nisswa Lake Marl Deposit, Crow Wing County, Minnesota.

Alfred Rogosin, Minneapolis

B.S. '49, Rutgers University. Major: Botany. Minor: Geology. Thesis: Wild Rice (*Zizania aquatica* L.) in Northern Minnesota, with Special Reference to the Effects of Various Water Levels and Water Level Changes, Seeding Densities, and Fertilizer.

Suzanne Saint-Hilaire, Ottawa, Ontario, Canada

B.S. in H.E. *cum laude* '43, Laval University. Major: Home Economics. Minor: Education. Thesis: The Gastric Acid Secretory Equivalent of Different Foods.

Manuel Soldevila, San Juan, Puerto Rico

B.S.A. '58, University of Puerto Rico. Field of Concentration: Animal Husbandry.

Master of Science in Aeronautical Engineering

Thomas LeRoy Crosswell, Jr., Sebeka

B.S. '56, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Master of Science in Anesthesiology

Conrad Charles LeRoy Buck, London,
Ontario, Canada

B.A. '48, M.D. '52, University of Western Ontario. Major: Anesthesiology. Minor: Physiology. Thesis: A Method Utilizing the Conventional Manometric Apparatus to Determine the Ether Content of Denitrogenated Plasma of Patients Under Light Ether Anesthesia.

Emerson Amos Moffitt, Rochester

M.D., C.M. '51, Dalhousie University. Major: Anesthesiology. Minor: Physiology. Thesis: A Comparative Study of Blood Flow, Oxygen Saturation of Mixed Venous Blood, Blood Pressure and Peripheral Vascular Resistance During Whole Body Perfusion for Clinical Purposes and During Preoperative Cardiac Catheterization in Man.

Master of Science in Chemical Engineering

Isidro Uychoco Garcia, Jr., Manila,
Philippines

B.S.Ind.Tech. '48, B.S.Ch.E. '49, University of Santo Tomas. Major: Chemical Engineering. Minor: Petroleum Engineering. Thesis: Steam-Water Heat Transfer Coefficients.

Glen Reid Wyness, Duluth

B.S. with high distinction '56, University of Minnesota. Major: Chemical Engineering. Minor: Business Administration. Thesis: Natural Convection Heat Transfer in Closed Vertical Tube with Non-Uniform Wall Boundary Conditions.

Master of Science in Civil Engineering

Edward John Fleege, Park Rapids

B.S. with distinction '57, University of Minnesota. Major: Civil Engineering (Highway Engineering and Soils Mechanics). Minor: Civil Engineering (Structural Engineering). Thesis: A Comparison of the Compaction Characteristics of Red and Gray Drift Soils.

Howard Albert Jongedyk, Minneapolis

B.S. '47, M.S. '48, University of Illinois. Field of Concentration: Civil Engineering.

Robert Duane Hanson, Albert Lea

B.S. with distinction '57, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Model Analysis of a Circular Cellular Cofferdam.

Ronald Leslie Sack, Minneapolis

B.S. '57, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: An Investigation of the Formation of Plastic Hinges in Reinforced Concrete Columns.

Master of Science in Dentistry

Paul Maxfield Burbank, Rochester,
N.Y.

B.S. '49, D.M.D. '53, Tufts College. Major: Dentistry. Minor: Surgical Pathology. Thesis: The Dental Aspects of Infantile Cortical Hyperostosis.

George James Petropoulos, Rochester

D.M.D. '52, Tufts College. Major: Dentistry. Minor: Surgical Pathology. Thesis: A Method of Comparing Local Anesthetic Preparations: An Electrophysiological Analysis.

Master of Science in Dermatology and Syphilology

Carl Walter Hassel, Jr., Philadelphia, Pa.

B.A. '50, Temple University; M.D. '54, Jefferson Medical College. Major: Dermatology. Minor: Histopathology. Thesis: Phenylpyruvic Oligophrenia: A Dermatologic Evaluation of Seventeen Patients with Special Attention to Pigmentary Response.

Sigfrid Augustine Muller, Panama, Panama

B.A. '49, George Pepperdine College; M.D. '53, St. Louis University. Major: Dermatology. Minor: Histopathology. Thesis: Scleroderma: The Relationship of Calcinosis and the Effects of a New Chelating Agent, EDTA.

Charles William Watkins, Townsend, Mont.

B.A. '48, Montana State University; M.D. '51, St. Louis University. Major: Dermatology. Minor: Pathology. Thesis: Weber-Christian Disease—A Clinical and Histopathologic Investigation.

Master of Science in Electrical Engineering

Rajinder Pal Aggarwal, New Delhi, India

B.S. '52, Delhi University; M.S. '53, Aligarh University. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study on the Efficient Design of Grounding Grids for Electric Power Sub-Stations.

Master of Science in Industrial Engineering

Rakhal Das Saha, Calcutta, India

B.Sc.(Hons.) '48, University of Calcutta. Field of Concentration: Industrial Engineering.

Master of Science in Mechanical Engineering

Richard Paul Anderson, Wayzata

B.S.M.E. '56, University of Minnesota. Field of Concentration: Mechanical Engineering.

Master of Science in Medicine

Lee Enderlin Bartholomew, Lima, Ohio

B.A. '47, Dartmouth College; M.D. '50, Columbia University. Major: Medicine. Minor: Pathology. Thesis: The Anterior Pituitary Gland in Rheumatoid Arthritis.

Donald John Corr, Riverside, Calif.

B.A. '49, M.D. '52, Stanford University. Major: Medicine. Minor: Pathology. Thesis: Coronary Atherosclerosis in Hypercholesterolemic and Normocholesterolemic Human Beings: A Pathologic Study.

Walter David Feinberg, El Paso, Tex.
B.A. '48, Rice Institute; M.D. '52, Southwestern Medical College of the University of Texas. Major: Medicine. Minor: Physiology. Thesis: The Effects of Varying Amounts of Stable Iodine on the Function of the Human Thyroid.

George Brewer McClary, Jr., Rochester

B.A. '50, Dartmouth College; M.D. '53, Northwestern University. Major: Medicine. Minor: Physiology. Thesis: A Study of the Rates and Quantities of Movement of Water, Sodium and Potassium through Duodenal and Ileal Mucosa in Fasted and Fed Dogs.

John William Vance, St. Thomas, Ontario, Canada

M.D. '51, University of Western Ontario. Major: Medicine. Minor: Physiology. Thesis: Adjustments of Stores of Carbon Dioxide During Voluntary Hyperventilation.

Master of Science in Metallurgical Engineering

Arthur Frank Colombo, Eveleth

B.Min.E. '54, University of Minnesota. Major: Metallurgical Engineering. Minor: Geology. Thesis: The Flotation Characteristics of Goethite.

Denys Henry Harraway, Dunedin, New Zealand

B.Met.E. '56, University of Otago. Major: Metallurgical Engineering. Minor: Geology. Thesis: Iron Wash Ore Slimes—Some Mineralogical and Flotation Characteristics.

Master of Science in Orthopedic Surgery

Norman Lee Dunitz, Newton, Iowa

B.A. '49, M.D. '53, State University of Iowa. Major: Orthopedic Surgery. Minor: Surgical Pathology. Thesis: Primary Malignant Lymphomas of Bone (So-Called Reticulum Cell Sarcoma).

John Nathaniel Henrie, Panguitch, Utah

B.S. '50, M.D. '52, University of Utah. Major: Orthopedic Surgery. Minor: Surgical Pathology. Thesis: The Influence of Experimental Arterio-Venous Fistula on the Healing of Fractures and on the Blood Flow Distal to the Fistula.

Master of Science in Pathology

Andrew Robert Wilson Climie, Rochester

M.B.Ch.B. '50, University of Glasgow. Major: Pathology. Minor: Clinical Pathology. Thesis: Myeloid Metaplasia of the Spleen.

Master of Science in Surgery

William Henry Barnes, Hamilton,
Ontario, Canada

M.D. '51, Queens University. Major: Surgery.
Minor: Surgical Pathology. Thesis: Experimental
Production of Pulmonary Hypertension.

Jacques Cote, Quebec, Quebec,
Canada

B.A. '46, Jesuites College; M.D. '51, Laval
University. Major: Surgery. Minor: Surgical
Pathology. Thesis: Evaluation of Pancreatic
Biopsy Secured by the Vim-Silverman Needle.

Dudley Benningfield Houle, Eastland,
Tex.

B.A. *cum laude* '49, Texas Christian Univer-
sity; M.D. '53, Tufts College. Major: Surgery.
Minor: Physiology. Thesis: The Effects of
Respiratory and Metabolic Acidosis on the
Pressor Effects of Epinephrine, Norepinephrine
and Metaraminol.

Doctor of Philosophy

Virginia Vivian Alwin, New Ulm

B.A. *summa cum laude* '33, Hamline Univer-
sity; M.A. '46, State University of Iowa. Major:
Education. Minor: English. Thesis: A
Study of the Possible Contributions of Mod-
ern Linguistic Science to the Teaching of the
English Language in High School. Major Ad-
viser: Prof. D. V. Smith.

Robert Louis Berg, Racine, Wis.

B.A. '36, University of Redlands; M.A. '48,
University of Minnesota. Major: Political Sci-
ence. Minor: History. Thesis: Presidential
Power and the Royal Prerogative. Major Ad-
viser: Prof. H. W. Chase.

Carl Frederick Buer, Minneapolis

B.S. '49, University of Minnesota. Major: Edu-
cational Psychology. Minor: Psychology. The-
sis: An MMPI Configural Index for Deter-
mination of Somatization. Major Advisers:
Profs. W. E. Dugan and C. G. Wrenn.

Bernard Gonzalez Carbajal III,
St. Paul

B.A. '54, Rice Institute. Major: Organic
Chemistry. Minor: Chemistry. Thesis: The
Reaction of Phenylmagnesium Bromide with
Ortho and Para Nitroso and Phenylazo Phen-
ols. Major Adviser: Prof. C. F. Koelsch.

Alexis Adelbert Caron, Tempe, Ariz.

B.A. '50, University of Massachusetts; M.A.
'52, University of Minnesota. Major: French.
Minor: Spanish. Thesis: The Treatment and
Evolution of the *Jeune Fille* as a Dramatic
Character in the Contemporary French Drama
(1918-1953) as Portrayed by Representative
French Playwrights. Major Adviser: Prof.
Marthe Blinoff.

Julius Chametzky, Cambridge, Mass.

B.A. *cum laude* '50, Brooklyn College; M.A.
'52, University of Minnesota. Major: English.
Minor: Political Science. Thesis: Reason and
Desire in the Plays of John Marston. Major
Adviser: Prof. W. V. O'Connor.

Hyung Sup Choi, Chinju, Korea

B.E. '44, Waseda University; M.S. '56, Uni-
versity of Notre Dame. Major: Metallurgy.
Minor: Geology. Thesis: The Function of
Aliphatic Acids in Flotation Collection. Major
Adviser: Prof. S. R. B. Cooke.

Hanna Boulos Doany, Amman, Jordan

Ph.C. with distinction '44, American Univer-
sity of Beirut. Major: Bacteriology. Minor:
Physiological Chemistry. Thesis: Comparative
Studies of Cytopathogenic Coxsackie Viruses
by Use of the Complement Fixation Method.
Major Adviser: Dr. J. T. Syverton.

Alex Edelstein, San Francisco, Calif.

B.A. '46, San Francisco State College; M.A.
'48, Stanford University. Major: Journalism.
Minor: History. Thesis: The Marshall Plan
Information Program in Western Europe as
an Instrument of United States Foreign Policy,
1948-1952. Major Adviser: Prof. R. D. Casey.

Lauren Benton Granger, Baudette

B.S. '40, M.S. '53, University of Minnesota.
Major: Education. Minor: Agricultural Educa-
tion. Thesis: Some Farm Business Factors Dif-
ferentiating Earning of Farmers in the Minne-
sota Vocational Agriculture Farm Management
Program. Major Adviser: Prof. M. J. Peterson.

Robert Alfred Hanson, Morris

B.S. with high distinction '50, M.S. '53, University of Minnesota. Major: Education. Minor: Agricultural Economics. Thesis: The Relationship Between Different Levels of Preparation in High School Vocational-Agriculture, Science, and Mathematics and First Year Achievement in a College of Agriculture. Major Adviser: Prof. M. J. Peterson.

Beulah Minerva Hedahl, Bismarck,
N.D.

B.A. *magna cum laude* '46, Concordia College; M.A. '48, State College of Washington; M.A. '53, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: A Study of the Role Expectations of Counselors in Three University Student Counseling Centers. Major Adviser: Prof. C. G. Wrenn.

Leverett Paddock Hoag, Duluth

B.S. '37, Moorhead State Teachers College; M.A. '53, University of Minnesota. Major: Geography. Minor: Agricultural Economics. Thesis: A Critical Study of Methods for Delineating Multiple-Component Regions. Major Adviser: Prof. J. R. Borchert.

John Harold Hoffman, Winona

B.S. *summa cum laude* '51, St. Mary's College at Winona; M.S. '54, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Study of the Abundance and Isotopic Ratio of Helium in the Atmosphere and in Meteorites. Major Adviser: Prof. A. O. C. Nier.

Donald Joseph Hogan, Bellerose, L.I.,
N.Y.

B.A. '49, Queens College at New York; M.A. '51, University of Minnesota. Major: English. Minor: History. Thesis: Structural Design in Thomas Hardy's Poetry. Major Adviser: Prof. Allen Tate.

Ung-Kee Hwang, Taegu, Korea

M.D. '50, Taegu Medical College. Major: Anatomy. Minors: Physiological Chemistry and Physiology. Thesis: Experimental Study of the Thyroid in the Fetal Rat. Major Adviser: Prof. L. J. Wells.

Robert Johnson, Richmond, Va.

B.A. '38, Virginia Union University; M.A. '39, University of Michigan. Major: History. Minor: Political Science. Thesis: Government Regulation of Business Enterprise in Virginia, 1750-1820. Major Adviser: Prof. Herbert Heaton.

Benjamin Kleinmuntz, Brooklyn, N.Y.

B.A. '52, Brooklyn College. Major: Psychology. Minor: Neuropsychiatry. Thesis: An Investigation of the Verbal Behavior of Paranoid Psychotic Patients and Normals. Major Adviser: Prof. Ephraim Rosen.

Charles Bruce Koons, Davenport,
Okla.

B.S. '51, Southern Illinois University. Major: Organic Chemistry. Minor: Chemistry. Thesis: Electrophilic Hydrogen Isotope Exchange of Alkylbenzenes. Major Adviser: Prof. W. M. Lauer.

Harold Allen Korn, Brooklyn, N.Y.

B.S. '51, M.A. '53, City College of New York. Major: Psychology. Minor: Neuropsychiatry. Thesis: Guessing Behavior Modified by Schedules of Reinforcement of Individuals with Selected MMPI Profiles. Major Adviser: Prof. S. R. Hathaway.

Ronald Frederick Lange, Kankakee,
Ill.

B.S. '54, University of Illinois. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Reactions of Indoles with Dienophiles. Major Adviser: Prof. W. E. Noland.

Jean Malmstrom, Kalamazoo, Mich.

B.A. '28, M.A. '29, Washington University at St. Louis. Major: Education. Minor: English. Thesis: A Study of the Validity of Textbook Statements about Certain Controversial Grammatical Items in the Light of Evidence from the Linguistic Atlas. Major Advisers: Profs. D. V. Smith and H. B. Allen.

James Joseph Markham, Glenside, Pa.

B.S. '50, Villanova College. Major: Analytical Chemistry. Minor: Chemistry. Thesis: The Reaction Between Rhodium(III) and Tin(II) in Iodide Solution. Major Adviser: Prof. E. B. Sandell.

Floyd Lavern McAlister, Minneapolis

B.S. '48, M.A. '54, University of Arkansas. Major: English. Minor: History. Thesis: A Survey of Twentieth-Century Milton Scholarship with Particular Attention to Controversies. Major Adviser: Prof. Huntington Brown.

Robert Francis McDonnell, Athens, Ohio

B.A. *cum laude* '51, St. John's University at Collegeville; M.A. '54, University of Minnesota. Major: English. Minor: Linguistics. Thesis: The "Aspiring Minds": A Study of Shakespearean Characters Who Aspire to Political Sovereignty, Against the Background of Literary and Dramatic Tradition. Major Adviser: Prof. Huntington Brown.

Alanson Lloyd Moote, Goderich, Canada

B.A. '54, University of Toronto; M.A. '56, University of Minnesota. Major: History. Minor: Political Science. Thesis: *The Parliament of Paris, the French Crown, and Royal Absolutism During the Fronde, 1643-1652*. Major Adviser: Prof. J. B. Wolf.

Wilbur Fim Murra, Tempe, Ariz.

B.S. with high distinction '31, M.A. '35, University of Minnesota; M.A. in Teaching '37, Harvard University. Major: Education. Minor: History. Thesis: *An Inquiry into the Role of Religion in the Public Schools of a Secular State*. Major Adviser: Prof. F. E. Ellis.

Lincoln Carret Peirce, Newburyport, Mass.

B.S. '52, Cornell University. Major: Horticulture. Minor: Plant Genetics. Thesis: *Heritability of Certain Economic Characters in the Tomato*. Major Adviser: Prof. T. M. Currence.

Howard Stuart Reinmuth, Jr., Minneapolis

B.A. *summa cum laude* '51, M.A. '54, University of Minnesota. Major: History. Minor: Political Science. Thesis: *Lord William Howard, 1563-1640—A Great Border Magnate*. Major Adviser: Prof. D. H. Willson.

George A. Rothrock, Jr., Wilmington, Del.

B.A. '54, University of Delaware; M.A. '56, University of Minnesota. Major: History. Minor: Political Science. Thesis: *The French Crown and the Estates General of 1614*. Major Adviser: Prof. J. B. Wolf.

Wendell R. Starr, Boulder, Colo.

B.A. '36, Ottawa University; M.A. '47, University of Colorado. Major: Education. Minor: English. Thesis: *Structural Dislocation in the Conversation of High School Students*. Major Advisers: Profs. D. V. Smith and H. B. Allen.

Holger Richard Stub, LaCrosse, Wis.

B.A. '48, M.A. '50, University of Minnesota. Major: Sociology. Minor: History. Thesis: *Attitudes Toward Formal Structure in Two Public Bureaucracies*. Major Adviser: Prof. A. M. Rose.

Calvin Yukio Takagi, Minneapolis

B.A. *cum laude* '50, M.S.W. '52, University of Minnesota. Major: Social Work. Minor: Sociology. Thesis: *Some Critical Behaviors Required in Casework Practice: An Exploration into the Use of the Critical Incident Technique for Identifying Critical Casework Behaviors*. Major Adviser: Prof. L. N. Scott.

Philip Ralph Teske, Rochester

B.S. with distinction '47, M.S. '50, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: *Attitudes of Farm and Farm-Related Groups Toward College Training in Agriculture as Preparation for Farming*. Major Adviser: Prof. M. J. Peterson.

Herbert David Thurston, Sioux Falls, S.D.

B.S. with distinction '50, M.S. '53, University of Minnesota. Major: Plant Pathology. Minor: Horticulture. Thesis: *The Relative Survival Ability of Races of *Phytophthora infestans* in Mixtures*. Major Adviser: Prof. C. J. Eide.

Mary Jane Tingle, Forsythe, Ga.

B.A. '30, Bessie Tift College; M.A. '36, George Peabody College for Teachers. Major: Education. Minor: Educational Psychology. Thesis: *An Analysis of Family Relations in Fiction Recommended for Adolescents*. Major Adviser: Prof. D. V. Smith.

Deane A. Turner, Waseca

B.S. '41, M.S. '52, University of Minnesota. Major: Education. Minor: Agricultural Education. Thesis: *A Study of the Effectiveness of Visual Aids in Farm Management Instruction Among Students of Senior High School Grades*. Major Adviser: Prof. M. J. Peterson.

John Winter Webb, England

M.A. (Ord.) '50, M.A. (Hons.) '52, University of St. Andrews. Major: Geography. Minor: History. Thesis: *An Urban Geography of the Minnesota Iron Ranges*. Major Adviser: Prof. J. O. M. Broek.

Academic Costume

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

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

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

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

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

(In the order of march)

| | |
|--|--------------------|
| General College | crimson and white |
| College of Science, Literature, and the Arts | white |
| University College | old gold and white |
| Institute of Technology | orange |
| College of Agriculture, Forestry, and Home Economics | maize |

| | |
|---|------------|
| College of Education | light blue |
| School of Business Administration | drab |
| Law School | purple |
| College of Medical Sciences | green |
| Graduate School | black |

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



UNIVERSITY OF MINNESOTA

Senior Reception

July 1958

- The members of the Senior Class, their relatives, and friends are invited by President and Mrs. James Lewis Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held on the Terrace of the Coffman Memorial Union.
- Those in the receiving line will include President and Mrs. Morrill, Dr. E. W. Ziebarth, Dean of the Summer Session, and Mrs. Ziebarth, Mr. Wayne W. Anderson, President, All-University Congress, and Mr. Richard L. Erickson, President, Coffman Union Board of Governors.
- Assisting in the Reception will be members of the Union Board of Governors and its committees. These students will wear maroon and gold ribbons.
- All guests are urged to register at the appropriate tables. The signed pages will be bound and preserved by the class of 1958.
- Punch will be served. Members of the Union Board of Governors and its committees will preside at the punch tables.

THE
UNIVERSITY OF MINNESOTA

Announces Its

August Commencement

1958



NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, AUGUST 21

AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Clarence E. Larson, Assistant Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and seventh birthday. As from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded more than 138,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to more than 25,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members, who are county agents, home agents, and recreation and health consultants, give effective aid and assistance to citizens of the state in their very homes.

But the University of Minnesota, like all great universities, has expanded far beyond its early teaching and training programs. In its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, heart surgery, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, and 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 University Artists Course, the Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital to be constructed and for the great Mayo Memorial building to be completed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart diseases. Further contributions are making it possible for the University to build the Masonic Memorial Cancer Hospital and will make it possible, in the near future, to build the Veterans of Foreign Wars Cancer Research Center.

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

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

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

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

The summary financial statement of 1956-57 showed that the University received \$63,563,590.75 and spent \$63,559,225.93. This includes, of course, \$11,094,272.92 received from student tuition and fees, hospital and other departmental receipts; \$1,287,807.36 from intercollegiate athletics; \$11,900,800.04 from such services as dormitories and dining halls, printing, the laundry, University Press, Concerts and Lectures, University Theater, and Health Service, and from the revolving funds; and \$13,881,776.12 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research prizes, scholarships, and the care of the sick, as well as from the Permanent University Fund derived from land set aside by the Federal Government, and the occupational tax on iron ore. Also, \$2,269,805.06 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$63,559,047.72, which the University received for 1956-57, \$23,124,586.22 came from the state.

All students at the University, their families and friends are invited to continue their enthusiasm and interest in the University of Minnesota. Graduates are especially urged to identify themselves with the 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

torium, the audience will rise and remain standing for the National Anthem and the Invocation.

THE NATIONAL ANTHEM: The entire audience and Mr. Stiles, soloist,

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

INVOCATION: The Reverend James Boren.

SPEAKING FOR THE UNIVERSITY: Vice President Malcolm M. Willey.

COMMENCEMENT ADDRESS: President Harvey Mitchell Rice of Macal-
ester College.

CONFERRING OF ROTC CERTIFICATES: Dean Summers will introduce
Colonel Benson, who will present the candidates for commissions in the Army.
Certificates of ROTC Completion will be presented by Vice President Willey.

PRESENTATION OF CANDIDATES: Dean Summers will introduce the
deans of the several colleges, or their representatives, who will present to Vice
President Willey the candidates for certificates and degrees in their respective
colleges. They are, in order of their introduction: Associate Dean Vaughan for
the General College; Dean McDiarmid for the College of Science, Literature,
and the Arts, and for University College; Assistant Dean Johnson for the Insti-
tute of Technology; Professor McFarland for the College of Agriculture, For-
estry, and Home Economics of the Institute of Agriculture; Associate Dean
Edwards for the College of Education; Dean Kozelka for the School of Busi-
ness Administration; Dean Lockhart for the Law School; Dean Howard for
the College of Medical Sciences; Associate Dean Darley for the Graduate
School.

CONFERRING OF DEGREES: Vice President Willey will confer certi-
ficates and degrees upon the members of this graduating class.

Order of Events

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

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

"HAIL, MINNESOTA," The University's Alma Mater song. The audience and Mr. Stiles.

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

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

RECESSIONAL: Mr. Westenburg, Organist

| | | |
|----------------|-----------|---------|
| Trumpet Tune | - - - - - | Purcell |
| Dorian Toccata | - - - - - | Bach |

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

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Second Lieutenant, Adjutant General Corps

Dean W. Wright, Cokato

Second Lieutenant, Armor

Douglas M. Loring, Minneapolis

Second Lieutenant, Infantry

Fred W. Hallberg, St. Paul

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

John Dennis, Minneapolis
James Weldon Gross, Minneapolis
Henry Joseph Handzel, Minneapolis
Melvin William Johnson, Jr., Minneapolis

John Ralph Long, Minneapolis
Sarah Bost McCreary, Minneapolis
Carol Eleanor Nisser, St. Louis Park
Patrick Norbert Spaeth, Minneapolis
Andrew Roger Stark, St. Paul

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Burton Owen Allen, Minneapolis

Judith Marian Finstad, Hopkins

Bachelor of Arts

Robert S. Awes, Winona
Maurice James Blake, Rochester
James Arthur Blumke, A.L.A., Minneapolis
John Henry Bridgeman, Duluth
Richard John Burquist, Minneapolis
John Dunwoody Burroughs, San Francisco, Calif.
Louis Robert Cavanagh, Minneapolis
John Sanborn Clapp, St. Paul
Dorothy Mae Coddon, St. Paul
James Everts Connolly, St. Paul
Diana Claire Cotton, St. Paul
John Michael DeGonda, Minneapolis
Lisa Florence Duckstad, Ironwood, Mich.
Richard Allen Enrooth, Minneapolis
Philip Woodhull Ernst, Minneapolis
Robert Sherwood Fort, A.L.A., Minneapolis
LeRoy Edward French, West Concord
Fred William Hallberg, Jr., St. Paul
Ronald Lawrence Handley, Minneapolis
Donald P. Hartmann, Pierz, MAGNA CUM LAUDE
Cornelia F. Lynde Haugland, Muskogee, Okla.
Phyllis Lorraine Herje, Minneapolis
Paul Michael Kapsch, A.A., Ely
Warren Lee Kleinsasser, St. Paul
Allan Travis Klopp, Minneapolis
Linnaia Dale Koch, Phillips, Wis.
Gertrude Ann Kuehl, Selby, S.D., CUM LAUDE
Charles Richard La Beaux, Minneapolis

Fred Payson Lamb, Minneapolis
Lawrence Arthur Laukka, Minneapolis
John Bernard Leary, St. Paul
Lucille Benke Linden, Minneapolis
Douglas Morse Loring, Minneapolis
John Paul Lundblad, Jr., Minneapolis
Mary Martha McGowan, St. Paul
Dorothy Lorraine Miller, A.L.A., Minneapolis
Martha Ann Moore, Minneapolis
Douglas Kent Murphey, Heron Lake
Barbara Gail Norris, Minneapolis
Frederick Logwood Oliver, Minneapolis
Dale Duane Olson, Bayport
Janet Eileen Peterson, St. Paul, CUM LAUDE
George Anders Porthan, Soudan
Paul George Schlueter, Jr., St. Paul
David S. Schwartz, Minneapolis
Richard Bernard Schwarz, Edina
Jean Carol Seng, Minneapolis
Lois Diane Sterner, St. Paul, MAGNA CUM LAUDE
Richard Gordon Strate, Wayzata
Charles Frederick Stroebel, Rochester
Katherine Rose Swanson, Coon Rapids
Richard LeRoy Syverson, Brainerd
Verling Charles Troidahl, Henderson, SUMMA CUM LAUDE
Russell Edward Utermarck, Wadena
David William Winn, Minneapolis
Ruth Elizabeth Wostrel, Minneapolis
Dean Wesley Wright, Cokato
Bruce Charles Youngquist, Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

James George Awada, St. Paul

Marie Ella Maland, Minneapolis

Bachelor of Science

Elaine Gove Hohenadl, St. Paul

LeRoy Hyland Palmquist, North
Branch

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Dennis Earl Barnaal, Sacred Heart,
WITH HIGH DISTINCTION

James Andrew Brandt, Minneapolis,
WITH DISTINCTION

Gary Dean Eppen, Austin, A.A., WITH
HIGH DISTINCTION

John Edward Osborn, Onamia

Paul Edward Rubbert, Minneapolis,
WITH HIGH DISTINCTION

Robert Harold Springer, Hastings

Robert Fulton Warming, Bismarck,
N.D., WITH HIGH DISTINCTION

*Arnold Marcus Weimerskirch, Bel-
grade, WITH DISTINCTION*

Bachelor of Aeronautical Engineering

David Eugene Bauer, Center City
Monrad Ivan Kerr, Lake Benton

George Edward Lenertz, Owatonna

Bachelor of Chemical Engineering

Arthur George Ess, Minneapolis
Gerald David Hartert, Rochester

Sherman Joseph Kemmer, Spring
Valley

Bachelor of Chemistry

Francis Ambrose Schurb, Winona

Bachelor of Electrical Engineering

Solomon Russell Hedges, St. Paul

*Francis Mark Leahy, Buffalo, WITH
DISTINCTION*

Bachelor of Mechanical Engineering

Roman Cedrins, St. Paul

William Charles Goudy, Minneapolis

Dale Arthur Gustafson, Minneapolis

Lynden Herman Johnson, Brainerd

Roger Martin Johnson, Dassel
Dezso Kozmary, St. Paul, WITH DIS-
TINCTION
Richard Bruce Porter, Minneapolis
Paul T. Reese, Minneapolis
James Lee Reynolds, Minneapolis
Roald Arne Rindal, Minneapolis,
WITH HIGH DISTINCTION

Richard George Sable, Minneapolis
Howard Eugene Wellumson, Minne-
apolis
Morris Dennis Wisti, Minneapolis
Michael Yankovich, St. Paul

Bachelor of Physics

Jerome Aloysius Fahley, Minneapolis

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

Bachelor of Science

Karen Susan Green, Minneapolis, Ag-
riculture
Eugene Fredrick Haugen, St. Paul,
Forestry
Virginia Louise Schultz, Bismarck,
N.D., Home Economics

Walter Emil Splittstoesser, Clare-
mont, Agriculture, WITH DISTINC-
TION
Barbara Lynne McLeroy Tidmarsh,
St. Paul, Home Economics

COLLEGE OF EDUCATION

Bachelor of Science

Shirley Mae Anderson, Minneapolis
Ruby Jean Boss, Clarkfield
Earl Douglas Bourassa, Bemidji
Richard Edward Cabak, Hinckley
Beverly Jean Carruthers, Minneapolis,
WITH DISTINCTION
Marjorie Ellen Engebretson Clarke,
B.S., Hudson, Wis.
David Leonard Dilcher, Anoka
Hubert Merle Embertson, B.S., Hop-
kins
Elizabeth Gifford Ettesvold, Alexan-
dria
Avis Hyslop Feeley, Minneapolis
JoAnn Eline Femrite, Minneapolis
Ronald Paul Fisher, North St. Paul
Mildred Elaine West Foss, Minne-
apolis

Yvonne Faye Fugleberg, Rochester
Lucille Frances Garry, Faribault
Donald Edward George, Bloomington
Ethel Kremen Goldman, Minneapolis
William Otto Groenke, Minneapolis
Judy Ann Grunzke, Bloomington,
WITH DISTINCTION
Alene Andrews Hawkins, Rogers,
WITH DISTINCTION
Elnore B. Hendrickson, Minneapolis,
WITH DISTINCTION
Lucille Marie Larson Holthus, Gar-
retson, S.D.
Elwanda Jean Jacobson, Minneapolis
Susan Elizabeth Jambeck, Minneapolis
Barbara Ann Jensen, B.S., Minneapolis
Jean McDowell Jobs, B.A., Minne-
apolis

Edna Claribell Embertson Johnson, Minneapolis, WITH DISTINCTION
 Peter Karl Johnson, Belle Plaine
 William Haymond Johnson, White Bear Lake
 Barbara Ann Kalin, Sioux City, Iowa, WITH DISTINCTION
 Marilyn Frances Keillor, Anoka
 Graceann Marguerite Kolenda, Minneapolis, WITH DISTINCTION*
 Virginia Bernadette Kosak, Reading, Pa.*
 Myrtle JoAnn Krause, Buffalo
 Kenneth George Kunshier, St. Paul
 Lavina Elvera Leigh, Frederic, Wis.
 Franklin Charles Martens, St. Paul
 Constance Mary Matson, B.A., Minneapolis
 Jewel Hill Mayer, B.A., Minneapolis
 Betty Ruth Miller, Darwin
 Nancy Jo Templeton Miller, Brainerd
 Nancy Jane Morrison, Excelsior
 Sandra Maureen Myrberg, Stromsburg, Neb.
 Emily Turnquist Nord, Minneapolis
 Marlene Genevieve Norris, A.L.A., Minneapolis

Ida Carmella Olson, St. Paul
 Selma Kathaleen Osman, St. Louis Park
 Mildred Jean Perkkio, Mound, WITH DISTINCTION
 Stewart Ronald Perry, St. Paul
 Stanley Robert Peterson, Minneapolis, WITH DISTINCTION
 Marcia Vae Scribner, Minneapolis
 Virginia Mae Strassburg, Minneapolis
 Betty Jean Terrio, Mountain Iron
 Muriel Joyce Moline Turnlund, Minneapolis*
 Donald Peter Villalta, International Falls
 Colette Wallace, Austin
 David Ronald Wallin, Valley City, N.D.
 Lawrence E. White, B.A., M.Ed., Excelsior
 Helen A. Fisher Williams, International Falls, WITH DISTINCTION
 Susan Marie Wilson, Minneapolis
 Mary Jacqueline Wyatt, St. Paul
 Richard Julius Yates, Minneapolis

Master of Education

K. Ann Brownlow, B.S.N., Wild Rose, Wis.
 Alfred Arthur Fischer, B.S., St. Louis Park
 Claudia Lou Fore, B.S.N., Winnsboro, La.
 Florence Nellie Grant, B.S., Staples
 Jack Kaplan, B.S., Winnipeg, Manitoba, Canada

Richard Alexander Kuby, B.A., Maple Lake
 Catharine Isabel Nyquist, B.S.N., Minneapolis
 Robert Denis O'Neill, B.S., Minneapolis
 Allan Stuart Rumbelow, B.A., B.Ed., Edmonton, Alberta, Canada

* Nursing Education Curriculum

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

Bachelor of Science

Leonard John Ouradnik, Pine City, Agricultural Education
Myron Eugene Tumbleson, Sherburn, Agricultural Education
Delbert Charles Schwieger, Fairmont, Agricultural Education, WITH DISTINCTION

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Earl Paul Breuer, Madison
Philip Douglas Brick, St. Cloud
William George Brose, Minneapolis
Allan Dennis Crawford, Minneapolis
Robert Leo DePauw, Jasper
Maureen Mae Kunow Dyrud, Dawson
Marilynn C. Fankhanel, Minneapolis
Patrick Michael Finley, St. Paul
Gary John Hjort, Colfax, Wis.
Robert Stanley Jensen, Minneapolis
Raymond Alan Johnson, A.A., Minneapolis
Sherman Joseph Kemmer, Spring Valley
Ronald Lee Kinney, Winnebago
Marvin Stanley Magnuson, Minneapolis
Arne Clarence Moores, St. Louis Park
Tokio Oie, Minneapolis
Glenn Albert Patterson, Rochester
Norville Rodney Pervier, Minneapolis
Robert Evans Pratt, Minneapolis
Frederick David Richter, Litchfield
Elwood Elton Salmonson, Rochester
Fred William Sanborn, Ortonville
Thomas William Schwob, LeSueur
Eugene Clyde Swedberg, Minneapolis
John Francis Unger, St. Cloud

Bachelor of Science in Economics

Everett Charles Hartley, Jr., St. Paul

LAW SCHOOL

Bachelor of Laws

Philip Douglas Brick, St. Cloud, CUM LAUDE
George Merrill Roehrdanz, B.B.A., Minneapolis
James Joseph O'Donnell, B.A., St. Paul

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing

- Katherine Rae Anderson, Marshall,*
WITH HIGH DISTINCTION
Sharon Jean Boucher, St. Peter
Mary Elizabeth Bray, Duluth
Ruth Marie Dumpys, Hutchinson
Donna Mae Kjørlien Fox, Perham,
WITH DISTINCTION
Sandra Joan Grue, Marshall, WITH
DISTINCTION
Carol Jean Gust, St. Louis Park, WITH
DISTINCTION
Kathleen Ruth Kinney, St. Paul, WITH
DISTINCTION
- June Kaye Frances LaBelle, Forest
Lake,* WITH HIGH DISTINCTION
Rae Janis LeVasseur, Duluth
Marianne Inga Lundquist, Janesville
Vivian Cam Lynn, Worthington
*Kathleen Margaret Malcolm, South
St. Paul*
Julie Ann Rondestvedt, Sauk Centre,
WITH HIGH DISTINCTION
Jean Carolyn Strobush, St. Paul, WITH
HIGH DISTINCTION

Bachelor of Science in Nursing Administration

- Maurcen Ann Hunt, St. Paul,* WITH
DISTINCTION
- Barbara Ann Smith, Minneapolis,*
WITH DISTINCTION

Bachelor of Science

- Mary Frances Crane, Winona, Public
Health Nursing*
*Dorothy Mae Engstrom, R.N., Vir-
ginia, Public Health Nursing*
*Nancy Ellen Erickson, Minneapolis,
Occupational Therapy*
*Carolyn Dixon Hamann, Streator,
Ill., Public Health Nursing,* WITH
DISTINCTION
*Erma Gertrude Hanson, R.N., Valley
City, N.D., Public Health Nursing,*
WITH DISTINCTION
*Carolyn Dahl Jones, Topeka, Kan.,
Public Health Nursing,* WITH DIS-
TINCTION
*Theodore Gordon Larson, B.A., M.D.,
Osakis, Medicine*
- Saralou Vernetta Leaphart, Missoula,
Mont., Public Health Nursing,*
WITH DISTINCTION
*Michael David Levitt, St. Paul, Medi-
cine*
*Mabel Evelyn Monson, Brook Park,
Public Health Nursing,* WITH DIS-
TINCTION
*Donna Mae Oehrlein, Albany, Public
Health Nursing*
*Carolyn N. Thiel Saxegaard, Minne-
apolis, Public Health Nursing*
*Cora R. Simenson Shelstad, Finley,
N.D., Public Health Nursing,* WITH
DISTINCTION
*Norman Parker Wigg, Duluth, Medi-
cine*

Master of Nursing Administration

- Mary Elizabeth Conway, B.S., Syra-
cuse, N.Y.*
*H. Irene Daggett, B.S., Georgetown,
S.C.*
- Irja Ilona Hill, B.S.N., Searsmont, Me.*
*Evelyn Clarice Humlicek, B.S.N.,
M.S., Omaha, Neb.*
Marjorie Marie Jack, B.S., Minncapolis

Elizabeth C. Jung, B.S., Minneapolis
Cecile Kume, B.S., Minneapolis
Ruth Esther Larson, B.S., Minneapolis
Lucile McCoy, B.S., Temple, Tex.
Dorothy Adelaide Neumann, B.A.,
B.S., Bloomington
Isabelle Frances Pelstring, B.S., St.
Paul

Betty J. Scherling, B.S., Minneapolis
Shirley Marie Stinson, B.S., Tofield,
Alberta, Canada
Louise Ann Town, B.S., St. Cloud
Marguerite Ann Yelacich, B.S., Iron-
wood, Mich.

GRADUATE SCHOOL

Master of Arts

Mary Ahles Adams, Detroit Lakes
B.E. '38, St. Cloud State Teachers College.
Field of Concentration: Education.

Donna Maurine Adcock, Davenport,
Neb.
B.A. '51, State University of Iowa. Field of
Concentration: Educational Psychology.

Kathleen Mary Ahern, Minneapolis
B.S. '51, Macalester College. Field of Con-
centration: Curriculum and Instruction.

Robert Newton Anderson, Regina,
Saskatchewan, Canada
B.A. '49, B.Ed. with distinction '52; Univer-
sity of Saskatchewan. Field of Concentration:
History and Philosophy of Education.

Dorothy Eva Andrews, Chisholm
B.E. '38, Wisconsin State College at Superior.
Field of Concentration: Education.

Irwin Joseph Atkins, Chicago, Ill.
B.A. '56, University of Denver. Field of Con-
centration: Speech and Theater Arts.

Walter Benjamin Backie, St. Paul
B.A. '51, Augsburg College; B.S. '56, University
of Minnesota. Field of Concentration: Curri-
culum and Instruction.

Thomas Edward Backman, Two Har-
bors
B.S. '50, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Richard Webster Barsness, Minne-
apolis
B.S. with high distinction '57, University of
Minnesota. Field of Concentration: History.

Loren Lane Benson, Deer River
B.S. '51, University of Minnesota. Field of
Concentration: Educational Psychology.

Dorothy M. Bichler, St. Paul
B.S. '40, St. Cloud State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Charles Maurice Bird, Minneapolis
B.S. '57, Macalester College. Field of Concen-
tration: Industrial Relations.

Thomas L. Bogut, St. Paul
B.S. '56, University of Minnesota. Field of
Concentration: Educational Administration.

Edward Albert Brown, Minneapolis
B.S. '57, St. Cloud State Teachers College.
Field of Concentration: Physical Education.

Robert John Brown, Stillwater
B.S. '57, Winona State Teachers College. Field
of Concentration: Educational Administration.

Donald James Burton, Minneapolis
B.S. '53, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Chuen-Tyi Chow, Taichung, Formosa,
China
B.A. '56, National Taiwan University. Field of
Concentration: History.

William Henry Christensen, Two
Harbors
B.S. '51, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Harvey Francis Clarizio, St. Paul
B.A. *magna cum laude* '56, College of St.
Thomas. Field of Concentration: Child Wel-
fare.

- Kathryn Elizabeth Coyne, Albert Lea
B.S. '29, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- William Arthur Davies, White Bear Lake
B.S. '36, University of Minnesota. Field of Concentration: Educational Administration.
- Anna Mae Dawson, Minneapolis
B.A. '36, Coe College. Field of Concentration: Educational Psychology.
- Ann Elizabeth Dickerson, Columbus, Ohio
B.A. *cum laude* '56, Fisk University. Field of Concentration: Child Welfare.
- Marjorie Lucille Edberg, St. Paul
B.A. '34, College of St. Benedict. Field of Concentration: Spanish.
- Lauren Elton Ekroth, Superior, Wis.
B.S. '56, University of Minnesota. Field of Concentration: Speech and Theater Arts.
- Panfilo B. Enojas, Iloilo City, Philippines
LL.B. *cum laude* '52, Central Philippine University. Field of Concentration: Educational Administration.
- Robley Barry Evans, Le Center
B.A. '52, St. John's University. Field of Concentration: Educational Psychology.
- James Henry Flom, St. Cloud
B.S. with distinction '54, University of Minnesota. Field of Concentration: Education.
- Nels Walter Forde, Minneapolis
B.A. *magna cum laude* '50, Luther College. Field of Concentration: History.
- Carver Coit Fouks, Hudson, Wis.
B.S. '52, Wisconsin State College at River Falls. Field of Concentration: Physical Education.
- Nancy Wilds Frank, Bemidji
B.A. '53, Hamline University. Field of Concentration: Curriculum and Instruction.
- Norman John Frenzel, Medford, Wis.
B.S. '57, Wisconsin State College at Stevens Point. Field of Concentration: Curriculum and Instruction.
- James Joseph Gallagher, Minneapolis
B.S. '49, College of St. Thomas. Field of Concentration: Physical Education.
- Richard Francis Gill, Chicago, Ill.
B.A. *cum laude* '57, College of St. Thomas. Field of Concentration: Industrial Relations.
- Frank James Gillis, Detroit, Mich.
B.A. with distinction '53, Wayne University. Major: Library Science. Minor: History. Thesis: Minnesota Music in the Nineteenth Century: A Guide to Sources and Resources.
- Cathryn Mary Glander, Minneapolis
B.S. in Ed. '30, New York University; B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- David Mathew Gray, Atlantic City, N.J.
B.A. '55, University of Miami. Major: Psychology. Minor: Sociology. Thesis: Perceptual Attitudes and Ideation.
- James Gordon Greeno, Minneapolis
B.A. *summa cum laude* '57, University of Minnesota. Field of Concentration: Psychology.
- Roger Dennis Gross, Spokane, Wash.
B.A. '57, University of Oregon. Field of Concentration: Speech and Theater Arts.
- Charles Hackman, Great Falls, Mont.
B.S. '49, University of Minnesota. Field of Concentration: Educational Psychology.
- Roy Melvin Donald Hamari, Minneapolis
B.S. with distinction '56, University of Minnesota. Field of Concentration: Industrial Education.
- Marlowe Alfred Hamerston, Proctor
B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Agnes Margaret Hansen, Duluth
B.Ed. '33, Duluth State Teachers College. Field of Concentration: Educational Psychology.
- Karen Lee Harwood, Minneapolis
B.A. '57, College of St. Catherine. Field of Concentration: Library Science.

- Mary Harriet Hiller, Brainerd
B.A. '56, Grinnell College. Major: German. Minor: French. Thesis: Character Types in Hofmannsthal's Comedies.
- Richard Allan Hovelsrud, Minneapolis
B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Floyd Renaldo Huffman, Redwood Falls
B.S. '30, University of North Dakota. Field of Concentration: Industrial Education.
- Dale Arthur Johnson, Great Falls, Mont.
B.S. '53, St. Cloud State Teachers College. Field of Concentration: Education.
- Elroy Randolph Johnson, Minneapolis
B.S. '39, Bemidji State Teachers College. Field of Concentration: Curriculum and Instruction.
- Gordon Phillip Johnson, Ellendale
B.A. *magna cum laude* '52, Augsburg College. Field of Concentration: Education.
- Robert Wayne Johnson, Hutchinson
B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Edith Kenneally Jones, Minneapolis
B.S. '44, Superior State Teachers College. Field of Concentration: Psychology.
- Ellsworth Carlyle Keil, Natick, Mass.
B.A. '52, Luther College. Field of Concentration: Educational Psychology.
- Louise M. Kelley, Marine on St. Croix
B.S. '42, Wisconsin State College at River Falls. Field of Concentration: English.
- Michael William Keran, Minneapolis
B.B.A. '55, University of Minnesota. Field of Concentration: Economics.
- M. Worden Kidder, Minneapolis
B.S. '54, University of Minnesota. Field of Concentration: Physical Education.
- Murray James Kiteley, Minneapolis
B.A. '50, University of Minnesota. Major: Philosophy. Minor: English. Thesis: Propositions and Their Modes: With Special Attention to Indirect Discourse.
- David James Kittelson, Bovey
B.A. '57, University of Hawaii. Field of Concentration: Library Science.
- Jerry Wayne Knudson, Gem, Kan.
B.S. '56, University of Kansas. Field of Concentration: American Studies.
- Arthur Charles Kordus, Mosinee, Wis.
B.A. '52, St. Paul Seminary. Field of Concentration: Speech and Theater Arts.
- James John Kovaleski, St. James
B.S. '51, Winona State Teachers College. Field of Concentration: Curriculum and Instruction.
- Dale Francis Kramm, St. Paul
B.A. *summa cum laude* '56, College of St. Thomas. Field of Concentration: Greek.
- Gilbert Albert Krause, Hibbing
B.A. '47, Valparaiso University. Field of Concentration: Curriculum and Instruction.
- Joseph Francis Kuzniar, Minneapolis
B.S. '49, University of Minnesota. Field of Concentration: Industrial Education.
- Vernon Smith Larson, Leroy
B.A. '46, Hamline University. Field of Concentration: Educational Administration.
- Virginia Bort Lawson, Pompano Beach, Fla.
B.A. '48, Wheaton College. Field of Concentration: Curriculum and Instruction.
- Carolyn Thorpe Lee, Minneapolis
B.A. '51, University of Minnesota. Major: Library Science. Minor: Social Work. Thesis: Contemporary Catholic Attitudes towards Censorship for Catholics.
- Hang Tao Lee, Chowhsien, Shantung, China
B.Ed. '48, National Peiping Teachers College. Field of Concentration: Educational Administration.
- Robert Edward Lee, Minneapolis
B.A. '51, University of Minnesota. Field of Concentration: Educational Psychology.
- Jack Daniel Lehigh, Duluth
B.S. '36, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Nowell David Leitzke, Wausau, Wis.
B.S. '57, University of Wisconsin. Field of Concentration: Library Science.

Adolph J. Leonhardi, Grand Meadow
B.A. '50, St. Olaf College. Field of Concentration: Educational Administration.

Richard Wayne Linn, West Des Moines, Iowa

B.A. '53, Iowa State Teachers College. Field of Concentration: Educational Psychology.

Mildred Marie Lorenz, Minneapolis

B.S. in Ed. with high honors '50, Southern Illinois University. Field of Concentration: Curriculum and Instruction.

Josephine Price Lowery, Hopkins

B.A. *magna cum laude* '41, University of Minnesota. Field of Concentration: Education.

Robert Nathan MacLeod, Isle

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

Joyce Ellen Mallinger, Minneapolis

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

Lillian Mable Martin, St. Paul

B.A. '52, College of Puget Sound. Field of Concentration: Library Science.

Alfred Claudius McAfee, Austin

B.S. '52, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Daniel Davy Merrill, South Bend, Ind.

B.A. *cum laude* '54, Princeton University. Major: Philosophy. Minor: Mathematics. Thesis: Empiricism and Emergence.

Elinor Viola Mohn, Minneapolis

B.S. with high distinction '48; M.A. '51, University of Minnesota. Field of Concentration: Library Science.

Robert Wayne Mollan, Minneapolis

B.S. with distinction '54, University of Minnesota. Field of Concentration: American Studies.

Daniel Patrick Norton, Hibbing

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

Russell Lee Oliver, Chippewa Falls, Wis.

B.S. '56, Wisconsin State College at Eau Claire. Field of Concentration: Educational Administration.

Karin Betty Jean Osborne, Minneapolis

B.S. with high distinction '55, University of Minnesota. Major: Speech and Theater Arts. Minor: English. Thesis: A Survey of the Speech and Theater Program at the University of Minnesota High School.

Choko Nakamura Oshima, Tokyo, Japan

B.A. '56, Berea College. Field of Concentration: Home Economics Education.

Evangeline Della Ostrom, St. Paul

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

Dominic Victor Owiredu, Kumasi, Ghana

B.A. '55, University College of Ghana at London. Field of Concentration: Educational Psychology.

Henry Herbin Parker, Memphis, Tenn.

B.A. *magna cum laude* '56, College of St. Thomas. Field of Concentration: English.

Carroll Eugene Peter, St. Paul

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

Marjory Ellen Peterson, Marinette, Wis.

B.A. with highest honors '57, Bethel College. Field of Concentration: English.

Norma Ottilie Peterson, St. Louis Park

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

S. Elvira Peterson, Mason City, Iowa

B.S. '45, University of Minnesota. Field of Concentration: Curriculum and Instruction.

William Thomas Pettit, Minneapolis

B.A. '53, Iowa State Teachers College. Field of Concentration: American Studies.

Grace Susag Pfau, Minnewaukan, N.D.

B.S. '49, Valley City State Teachers College. Field of Concentration: Curriculum and Instruction.

Russell Gilbert Phipps, Jr., St. Paul

B.S. '54, University of Illinois. Field of Concentration: International Relations.

Gladys Ann Pomeroy, Clay Center,
Neb.

B.A. *cum laude* '55, Hastings College. Field
of Concentration: Music.

Ira Morton Priesman, Minneapolis

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

William Edward Ramey, Stillwater

B.S. '51, Wisconsin State College at River
Falls. Field of Concentration: Educational
Psychology.

Richard Clayton Rank, Minneapolis

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

Virgil Andrew Rauch, St. Paul Park

B.S. '47, Rocky Mountain College. Field of
Concentration: Industrial Education.

Stuart Reuben Ringham, Fargo, N.D.

B.A. '52, Concordia College. Field of Con-
centration: Physical Education.

G. Lois Sletvold Ringquist, Battle
Lake

B.A. *cum laude* '52, Gustavus Adolphus Col-
lege. Field of Concentration: Library Science.

Struan Donald Robertson, Minne-
apolis

B.A. '48, M.A. '50, State University of Iowa.
Field of Concentration: Library Science.

Charles Lawrence Rolando, Jr.,
Minneapolis

B.A. *summa cum laude* '50, College of St.
Thomas. Field of Concentration: Business Ad-
ministration.

David E. Ruhsam, Osceola, Wis.

B.S. '49, Wisconsin State College at River
Falls. Field of Concentration: Physical Edu-
cation.

James Eugene Ryan, St. Paul

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

Mireille Guiller Rydell, Minneapolis

Graduate '51, University of Bordeaux. Major:
French. Minor: English. Thesis: L'Afrique du
Nord Dans La Vie et L'Oeuvre D'Andre
Gide.

Arthur William Sear, Jr., Minneapolis

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

Anna Ragnhild Seim, Willow Lake,
S.D.

B.A. *magna cum laude* '56, Augustana College
at Sioux Falls. Field of Concentration: Music.

Richard Ormond Shaw, Minneapolis

B.A. *cum laude* '53, St. Mary's College at
Winona. Field of Concentration: English.

Marilyn Evans Shobaken, Minneapolis

B.S. '53, University of Minnesota. Field of
Concentration: Art Education.

Patricia Mary Simonet, Minneapolis

B.S. '44, University of Minnesota. Field of
Concentration: Educational Administration.

Frances Ann Simonsen, Milaca

B.S. with high distinction '55, University of
Minnesota. Field of Concentration: Library
Science.

Sister Ruth Mary Durand, C.H.M.,
Davenport, Iowa

B.A. '50, Marycrest College. Field of Con-
centration: English.

Marilyn Skarstad, Fargo, N.D.

B.A. '51, St. Olaf College. Field of Concen-
tration: Educational Psychology.

Myer Upton Skoog, St. Peter

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

Edward Earl Smart, Brainerd

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

Bruce Lee Raymond Smith, Forest
Lake

B.A. *summa cum laude* '57, University of
Minnesota. Field of Concentration: Political
Science.

Lela June Stoner, Topeka, Kan.

B.Ed. *cum laude* '56, Washburn Municipal
University. Major: Physical Education. Minor:
Educational Psychology. Thesis: The Effect of
Swimming on Selected Obese College Women
as Determined by Specific Anthropometric
Measurements.

Theodore Rudolph Storlie, Minne-
apolis

B.S. with distinction '54, University of Minne-
sota. Field of Concentration: Educational Ad-
ministration.

Patricia Kay Talty, Omaha, Neb.

B.A. '57, University of Omaha. Field of Concentration: American Studies.

Myrtle C. Thissen, Blooming Prairie

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

JoAnn Thomas, Minneapolis

B.S. in Ed. '52, Northern State Teachers College. Field of Concentration: Curriculum and Instruction.

Naunda Meier Tietz, Eau Claire, Wis.

B.S. '52, Wisconsin State College at Eau Claire. Field of Concentration: Curriculum and Instruction.

Teresa Traybiatowski, St. Paul

B.A. '30, College of St. Benedict; M.A. '47, University of Minnesota. Field of Concentration: Educational Psychology.

Margaret Austin Varney, St. Paul

B.A. '43, M.A. '46, University of Minnesota. Field of Concentration: Educational Psychology.

Alma Downer Waterbury, Wabasha

B.A. '21, Carleton College. Field of Concentration: Educational Psychology.

Marcella Appel Weiser, Elmwood, Wis.

B.S. '53, Wisconsin State College at River Falls. Field of Concentration: Curriculum and Instruction.

Charles Edward White, Stillwater

B.B.A. '54, B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Russell E. Wiermaa, Virginia

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

Clifford H. Wiklund, Virginia

B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Iee Nee Yoon, Republic of Korea

B.A. '55, Lynchbury College. Field of Concentration: Economics.

Master of Arts in Public Administration

John Joseph Ballentine, Somersworth, N.H.

B.A. *cum laude* '50, Syracuse University. Major: Public Administration. Thesis: An Administrative Study of the Appraisal Function of the New Hampshire State Tax Commission.

Jack Elliott, Kansas City, Mo.

B.A. '48, University of Michigan. Major: Public Administration. Thesis: A Study of the Collection of Miscellaneous Service Fees and Inspectional Charges for Municipalities of Over 200,000.

Master of Business Administration

Jacob Gordon Birnberg, Minneapolis

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

Svein Arne Ekeheien, Asker, Norway

Graduate '53, Horten School of Technology; LL.B. '57, University of Oslo. Field of Concentration: Business Administration.

Alan Harry Johnson, Minneapolis

B.S. '52, University of Wisconsin. Field of Concentration: Business Administration.

Marvin Dale Juliar, Mahtomedi

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

Robert Norman Lee, Minneapolis

B.M.E. with distinction '57, University of Minnesota. Field of Concentration: Business Administration.

Robert William Vanasse, Minneapolis

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

Master of Science

Robert James Anderson, Minneapolis
B.S. '55, University of Minnesota. Major: Dairy Husbandry. Minor: Agricultural Economics. Thesis: A Study of Some Factors Influencing Body and Texture Changes in Ice Cream During Storage.

Howard Louis Bissonnette, St. Paul
B.S. '52, College of St. Thomas. Major: Plant Pathology. Minor: Botany. Thesis: Physiologic Specialization in *Aphanomyces Euteiches*.

Edgar Virgil Christensen, Brush, Colo.
B.S. with high distinction '56, Colorado Agricultural and Mechanical College. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Some Factors Affecting the Development of *Rhynchosporium secalis* on Brome Grass.

Larry Lee Claypool, Springfield, Mo.
B.S. '53, Southwest Missouri State College. Field of Concentration: Dairy Husbandry.

George Anastasios Doldouras, Cavala, Greece

B.S. '54, University of Athens. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Abnormal Allyl Phenyl Ether Rearrangement.

Raymond W. Eberhart, Hutchinson
B.S. '35, University of Minnesota. Field of Concentration: Agricultural Education.

John Walter Ferman, Minneapolis
B.S. '51, B.Met.E. '51, University of Minnesota. Major: Metallurgy. Minor: Physical Chemistry. Thesis: Precipitation of Lithium in Silicon.

Graham Rudolph Ford, Minneapolis
B.A. '55, University of Minnesota. Major: Geology. Minor: Geophysics. Thesis: A Study of the Platteville Formation in Dakota, Goodhue and Rice Counties, Minnesota.

Santiago Fuentes Fuentes, Mexico
Graduate '46, Escuela Nacional Preparatoria (Mexico). Major: Plant Pathology. Minor: Botany. Thesis: Observations on the Survival of Three Pathogenic Bacteria of Tomato.

Hyong Bin Im, Suwon, Korea
B.S. '44, Seoul National University. Field of Concentration: Botany.

Leonard Eugene Jensen, Jr., St. Paul
B.S. with distinction '55, University of Minnesota. Field of Concentration: Horticulture.

Donald William Kohls, Rosemount
B.A. '56, Carleton College. Major: Geology. Minor: Geophysics. Thesis: The Geology of the Prescott Quadrangle.

Robert John Lambert, Faribault
B.S. with distinction '52, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Variation between Seed Certification Classes of Dollard Red Clover (*Trifolium pratense* L.).

Gerald Lloyd Larson, La Crosse, Wis.
B.S. '51, University of Wisconsin. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: The Effect of Freezing Rate and Storage Temperature on Livability and Fertility of Bovine Spermatozoa.

Su Rae Lee, Suwon, Korea
B.S. '55, Seoul National University. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Isolation and Identification of Tyramine and Candicine from Barley Roots.

Hiroshi Minato, Kogushi-cho, Japan
B.S. '55, University of Tokyo. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: A. Studies on Hydroperoxides in Emulsion Polymerization. B. Reaction between Ferric Versenate and Hydrazine.

Aryabala Prasad, Patna, India
M.B.B.S. '51, Patna University. Major: Physiology. Minor: Surgery. Thesis: The Influence of PH on the Action of Adrenalin on Guinea Pig Tracheal Muscle.

Milan Bradford Reed, Minneapolis
B.S. '51, University of Wisconsin. Field of Concentration: Animal Husbandry.

Charles William Roberts, Tulsa, Okla.
B.S. '55, Oklahoma Agricultural and Mechanical College. Field of Concentration: Poultry Husbandry.

Vipin Kumar Singh, Bijnor, India
B.V.Sc. and A.H. '56, Agra University. Field of Concentration: Dairy Husbandry.

Sister Gertrude Thompson, St. Paul
B.A. '53, College of St. Catherine. Field of Concentration: Physical Chemistry.

Paul Marlin Westfall, Charleston, W. Va.

B.S. '56, Morris Harvey College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Addition of Grignard Reagents to Ethyl (1-Benzoyl-4-Piperidylidene)Cyanoacetate.

James Spencer Whittier, Farmington

B.S. with high distinction '57, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Effect of Configurational Additions Using Viscoelastic Interfaces on the Damping of a Cantilever Beam.

Mitsue Yanagita, Minot, N.D.

B.S. with high distinction '53, University of Minnesota. Major: Anatomy. Minor: Physiological Chemistry. Thesis: Alkaline Phosphatase in Leukocytes.

Kyong Bin Yim, Suwon, Korea

B.S. '44, Seoul National University. Major: Forestry. Minor: Plant Genetics. Thesis: Studies on the Rooting of Conifer Cuttings.

Master of Science in Anesthesiology

Charles Frederick Galway, Toronto, Ontario, Canada

M.D.,C.M. '34, Queen's University. Major: Anesthesiology. Minor: Pharmacology. Thesis: A Study of the Effects of Acute Respiratory Acidosis on Potassium Mobilization in the Dog.

Master of Science in Civil Engineering

Junn-Ling Chao, Taipei, Formosa, China

B.S. in C.E. '54, National Taiwan University. Major: Civil Engineering. Minor: Mathematics. Thesis: Flow Through Permeable Media with an Interface.

Master of Science in Dentistry

Louis Thomas Austin, Jr., Rochester

B.A. '51, B.S. '55, D.D.S. '55, University of Minnesota. Major: Dentistry. Minor: Surgical Pathology. Thesis: Giant Cell Reparative Granuloma and Related Conditions Affecting the Jaw Bones.

James Willard Monson, St. Paul

B.S. '54, D.D.S. '54, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Effects of Restrictive Pressure on the Growth of the Transplanted Mouse Humerus.

Charles Donald Ostergren, St. Paul

B.A. '50, Macalester College; B.S. '52, D.D.S. '53, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Development of the Embryonic Mouse Mandible as an Isologous Subcutaneous Transplant and as a Chorio-Allantoic Graft.

Charles David Simpson, Minneapolis

D.D.S. '43, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Studies in Mandibular Dysplasia: Resection of the Right Internal Pterygoid Muscle in the Rat.

Ronald Felix Stegelske, Jamestown, N.Y.

B.A. '52, Gannon College; D.D.S. '52, Temple University. Major: Dentistry. Minor: Surgical Pathology. Thesis: Malignant Lymphoma of the Maxilla and Mandible.

Master of Science in Electrical Engineering

Shih-fang Lo, China

B.S. '55, National Taiwan University. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of the Negative Sequence and Zero Sequence Impedances of a Synchronous Machine.

Master of Science in Industrial Engineering

Robert Freeman Asleson, New Ulm

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

Master of Science in Mechanical Engineering

Curtis Oneal Pedersen, Tyler

B.S. in M.E. '56, South Dakota State College of Agriculture and Mechanic Arts. Field of Concentration: Mechanical Engineering.

Master of Science in Medicine

John David Bonnet, Rochester

B.S. '48, University of Illinois; M.D. '52, Johns Hopkins University. Major: Medicine. Minor: Hematology. Thesis: Studies on the Metabolism of Iron, Utilizing Radioiron, Stressing the Gastrointestinal Absorption.

George Knox Boyd, Rochester

B.S. '47, M.D. '51, University of Pittsburgh. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Observations on the Adenohypophysis in Adrenal Insufficiency.

Harlan John Failor, Oostburg, Wis.

B.A. '50, Hope College; M.D. '54, University of Wisconsin. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Superior Vena Caval Obstruction.

James Calvin Hunt, Rochester

M.D. '53, Bowman Gray School of Medicine. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Incomplete Rupture of the Thoracic Aorta with Particular Reference to Post-Traumatic Aneurysm.

Jean-Maurice LeClair, Montreal, Quebec, Canada

B.Sc. '47, M.D., C.M. '51, McGill University. Major: Medicine. Minor: Pathology. Thesis: Sternal Marrow in Malignant Lymphomata: A Clinico-Pathological Study.

John Lower Magness, Fargo, N.D.

M.D. '50, George Washington University. Major: Medicine. Minor: Physiology. Thesis: The Simultaneous Determination of Radiocalcium and Radiophosphorus in Serum and Urine After Intravenous Injection; A Study in Man and Dog of the Effect of Altered Parathyroid Function.

Master of Science in Neurology

Albert Frederick Peterman, Milwaukee, Wis.

B.S. '48, University of Wisconsin; M.D. '52, Washington University. Major: Neurology. Minor: Neuropathology. Thesis: The Effects of Delayed Anticoagulation Therapy on Experimentally Produced Cerebral Infarcts in the Dog.

Master of Science in Physical Medicine and Rehabilitation

Jens David Henriksen, Battle Creek, Mich.

M.D. '38, University of Copenhagen. Major: Physical Medicine and Rehabilitation. Minor: Physiology. Thesis: Conduction Velocity of Motor Nerves in Normal Subjects and Patients with Neuromuscular Disorders.

John Walter Burdett Redford, Rochester

M.D. '53, University of Toronto. Major: Physical Medicine and Rehabilitation. Minor: Physiology. Thesis: Conduction Time in the Motor Fibers of Nerves Which Innervate Proximal Muscles of the Extremities in Normal Persons and in Patients with Neuromuscular Diseases.

Master of Science in Radiology

John William Marquis, Maplewood, N.J.

B.A. '50, Carleton College; M.D. '54, George Washington University. Major: Radiology. Minor: Pathology. Thesis: The Roentgenologic Manifestation of Chondrosarcoma.

Master of Science in Surgery

Donald Walter Meier, Bluffton, Ind.

M.D. '50, University of Rochester. Major: Surgery. Minor: Pathology. Thesis: Parenchymal Findings in Thyroidal Carcinoma.

David Samuel Ruskin, Detroit, Mich.

B.A. '48, M.D. '51, University of Michigan. Major: Surgery. Minor: Pathology. Thesis: Papillary Carcinoma of the Thyroid Gland—A Clinico-Pathologic Study with Special Reference to Local Extension of the Tumor.

Master of Social Work

Rosalie Bakalinsky, Winnipeg, Manitoba, Canada

B.A. '55, B.S.W. '56, University of Manitoba. Field of Concentration: Social Work.

Miriam Barrie, St. Paul

B.S. '41, College of St. Scholastica. Field of Concentration: Social Work.

Doctor of Philosophy

Frank Joseph Atelsek, Milwaukee, Wis.

Ph.B. '50, Marquette University; M.A. '51, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: Characteristics of Older Job Seekers: An Analysis in Terms of Their Unemployment Histories. Major Advisers: Profs. A. M. Rose and R. G. Francis.

Maurice Amédée Bergougnou, Bach, France

Graduate '53, École Nationale Supérieure des Industries Chimiques. Major: Chemical Engineering. Minor: Mathematics. Thesis: Diffusional Transfer for Distributed Particle Sizes and Extension of Two-Phase Leaching Equations. Major Adviser: Prof. E. L. Piret.

Robert Williams Binkley, Boulder, Colo.

B.A. *summa cum laude* '52, University of Colorado. Major: Philosophy. Minor: Psychology. Thesis: Moral Reasoning. Major Adviser: Prof. W. S. Sellars.

Charles Frederick Bortfeld, Manhattan, Kan.

B.S. '37, M.A. '39, University of Nebraska. Major: Agricultural Economics. Minor: Economics. Thesis: Production Alternatives in Response to Price Changes for a 320 Acre Wheat-Beef Farm in South Central Kansas. Major Adviser: Prof. G. A. Pond.

Arthur Dickinson Bradley, Hopkins

B.E. '42, St. Cloud State Teachers College; B.S. '45, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Estimating Success in Technical and Skilled Trade Courses Using a Multivariate Statistical Analysis. Major Advisers: Profs. C. G. Wrenn and W. E. Dugan.

Bruce Antone Brown, Adams, Wis.

B.S. with high distinction '52, M.F. '53, University of Minnesota. Major: Forestry. Minor: Soils. Thesis: Interrelationship of Brush Populations and Some Site Factors in Jack Pine Stands of North Central Minnesota. Major Adviser: Prof. H. L. Hansen.

Keith Schaffner Champlin, Minneapolis

B.S. with distinction '54, M.S. in E.E. '55, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Electrical Noise of Reverse Bias Breakdown in Silicon P-N Junctions. Major Adviser: Prof. Aldert van der Ziel.

Courtney Blair Cleland, Fargo, N.D.

B.A. *magna cum laude* '42, Carleton College. Major: Sociology. Minor: Psychology. Thesis: Institution in Process: A Case Study in the Dynamics of Rural Health Organization. Major Adviser: Prof. M. J. Taves.

James H. Cooley, Moscow, Idaho

B.A. '52, M.S. '54, Middlebury College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Action of Acid on Salts of 5-Nitronorbornenes. Major Adviser: Prof. W. E. Noland.

Joseph Holmes Dickerson, Hopkins

B.A. '38, Hamline University. Major: Educational Psychology. Minor: Psychology. Thesis: The Biographical Inventory Compared with Clinical Prediction of Post-Counseling Behavior of V.A. Hospital Counselees. Major Advisers: Profs. C. G. Wrenn and E. P. Torrance.

Shirley Russell Fite, Lexington, Mo.

B.A. '44, Vassar College; M.A. '46, Vanderbilt University. Major: Spanish. Minor: History. Thesis: The Literary Origins of "Realidad" by Benito Perez Galdos. Major Adviser: Prof. R. L. Grismer.

Ernest David Gray, Winnipeg, Manitoba, Canada

B.Sc. in Pharm. '52, University of Manitoba. Major: Physiological Chemistry. Minor: Pharmacology. Thesis: Kinetic Studies of Metabolic Interactions Among Mono- and Polynucleotides of Mouse Liver. Major Adviser: Prof. C. P. Barnum.

Theodore Norman Hong, Sioux Falls, S.D.

B.A. *cum laude* '40, St. Olaf College. Major: English. Minor: History. Thesis: Cardinal Newman as a Literary Critic. Major Adviser: Prof. W. V. O'Connor.

Lawrence Giles Jayko, Tacoma, Wash.

B.S. '50, University of Washington; M.S. '52, Washington State College. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Nutritional Factors Concerned with Growth and Lecithinase Production by *Clostridium perfringens*. Major Adviser: Prof. H. C. Lichstein.

Gwendolyn Lee Olson Mayo, Wayzata

B.A. '54, Vassar College. Major: Organic Chemistry. Minor: Chemistry. Thesis: 2, 5-Dimethyl-1, 4-Dithiadene. Major Adviser: Prof. W. E. Parham.

William Ralph McGraw, Jr., Mansfield, Ohio

B.A. '52, College of Wooster; M.A. '53, Ohio State University. Major: Speech and Theater Arts. Minor: English. Thesis: The Theatricality of James M. Barrie: An Analysis of His Plays to Determine the Source of Their Effectiveness in the Theater. Major Advisers: Profs. F. M. Whiting and R. E. Moore.

Joseph Washburn Miller, Minneapolis

B.S. '40, B.A. '41, Southeast Missouri State Teachers College; M.A. '47, Columbia University. Major: Education. Minor: English. Thesis: An Analysis of Freshman Writing at the Beginning and End of a Year's Work in Composition. Major Advisers: Profs. H. B. Allen and R. J. Keller.

John Walter Nelson, Sherburne

B.A. *cum laude* '52, Gustavus Adolphus College; M.A. '54, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: Dependency as a Construct: An Evaluation and Some Data. Major Adviser: Prof. S. R. Hathaway.

Hobart Frank Peters, Manyberries, Alberta, Canada

B.S.A. with distinction '45, University of Saskatchewan; M.S. '53, University of Minnesota. Major: Animal Husbandry. Minor: Plant Genetics. Thesis: A Genealogical Study of the Romnelet Sheep. Major Adviser: Prof. R. E. Comstock.

Ove Jacob Hjort Preus, Minneapolis

B.A. '48, Luther College; M.A. '54, University of Minnesota. Major: English. Minor: History. Thesis: Anne Thackeray Ritchie and the Victorian Literary Aristocracy. Major Adviser: Prof. W. V. O'Connor.

Ruth Roberts, Minneapolis

B.A. '46, M.A. '48, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: English Skills of Foreign Graduate Students. Major Adviser: Prof. D. G. Paterson.

August Ruthmann, Darmstadt, Germany

Technische Hochschule Darmstadt (Germany). Major: Zoology. Minor: Physiological Chemistry. Thesis: Spermatocytic Ultrastructure and Basophilia in the Testis of the Crayfish, *Cambarus virilis*. Major Adviser: Prof. J. G. Gall.

Mohammad Sarwar, Karachi, Pakistan

G.V.Sc. '40, Bengal Veterinary College; M.S. '56, University of Minnesota. Major: Dairy Husbandry. Minor: Veterinary Bacteriology. Thesis: The Production of Antibodies in the Bovine Mammary Gland, Their Use in Prophylaxis and Therapeutics; with Special Reference to Some Calf Pathogens. Major Adviser: Prof. W. E. Petersen.

Jerome Daniel Schein, St. Paul

B.A. *cum laude* '46, M.A. '47, University of Minnesota. Major: Psychology. Minor: Neurology. Thesis: An Experimental Investigation of Some Psychological Functions in Detection of Brain Damage. Major Adviser: Prof. William Schofield.

David Morris Shaw, Riverside, Calif.

B.A. '53, University of Redlands; M.S. '55, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: Some Effects of Size of Share in Task on Motivation in Work Groups. Major Adviser: Prof. H. W. Riecken.

William Bernard Silverman, New York City, N.Y.

B.S. '53, College of the City of New York; M.S. '56, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: A Study of the Necrosis Sometimes Associated with Infection of Cereal Plants by *Puccinia graminis* Pers. Major Adviser: Prof. Helen Hart.

Robert Marshall White, Minneapolis

B.A. '47, Dakota Wesleyan University; M.A. '54, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Predictive Relationship of Selected Variables to the Vocational Interest Stability of High School Students. Major Adviser: Prof. W. E. Dugan.

John August Wortman, Lakota, Iowa

B.A. *summa cum laude* '51, Macalester College. Major: Political Science. Minor: History. Thesis: The Minor Parties in the Soviet Zone of Germany: The Communist Preparation and Use of "Transmission Belts" to the East German Middle Class. Major Adviser: Prof. J. E. Turner.

Doctor of Philosophy in Medicine

Naip Tuna, Istanbul, Turkey

M.D. '47, University of Istanbul. Major: Medicine. Minor: Anatomy. Thesis: The Fatty Acids of Blood and Atheromatous Plaques and Their Relation to Atheroma Formation. Major Adviser: Dr. I. D. Frantz.

Doctor of Philosophy in Surgery

John Francis Perry, Minneapolis

B.A. '44, M.D. '47, University of Texas. Major: Surgery. Minor: Physiology. Thesis: Observations on the Digestive Activity of Human Gastric Juice. Major Adviser: Dr. O. H. Wangensteen.

Robert Wallace Toon, Portland, Ore.

B.S. '43, M.D. '44, University of Oregon. Major: Surgery. Minor: Physiology. Thesis: Studies in Gastro-Intestinal Ulceration with Special Reference to the Effect of Gastric Juice on Gastric Mucosa. Major Adviser: Dr. O. H. Wangensteen.

Academic Costume

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

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

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

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

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

(In the order of march)

| | |
|--|--------------------|
| General College | crimson and white |
| College of Science, Literature, and the Arts | white |
| University College | old gold and white |
| Institute of Technology | orange |
| College of Agriculture, Forestry, and Home Economics | maize |

| | |
|---|------------|
| College of Education | light blue |
| School of Business Administration | drab |
| Law School | purple |
| College of Medical Sciences | green |
| Graduate School | black |

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



UNIVERSITY OF MINNESOTA

Senior Reception

August 1958

- The members of the Senior Class, their relatives, and friends are invited by President and Mrs. James Lewis Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held on the Terrace of the Coffman Memorial Union. (In case of rain the Main Ball Room of the Union will be used.)
- Those in the receiving line will include Vice President and Mrs. Malcolm M. Willey, Mr. Wayne W. Anderson, President, All-University Congress, and Mr. Richard L. Erickson, President, Coffman Union Board of Governors.
- Assisting in the Reception will be members of the Union Board of Governors and members of Grey Friars, Iron Wedge, Mortar Board, Chimes, Phoenix, and Silver Spur, honorary societies.
- All guests are urged to register at the appropriate tables. The signed pages will be bound and preserved by the class of 1958.
- Punch will be served. Members of the Union Board of Governors and the honorary societies will preside at the punch tables.

THE
UNIVERSITY OF MINNESOTA

Announces Its

December Commencement

1958



NORTHROP MEMORIAL AUDITORIUM
THURSDAY EVENING, DECEMBER 18
AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Clarence E. Larson, Assistant Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and seventh birthday. As from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded more than 138,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to more than 26,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members, who are county agents, home agents, and recreation and health consultants, give effective aid and assistance to citizens of the state in their very homes.

But the University of Minnesota, like all great universities, has expanded far beyond its early teaching and training programs. In its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, heart surgery, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, and 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 University Artists Course, the Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the Masonic Memorial Hospital to be constructed and for the great Mayo Memorial Building to be completed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart diseases. Further contributions are making it possible for the University to build the Veterans of Foreign Wars Cancer Research Center.

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

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

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

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

The summary financial statement of 1957-58 showed that the University received \$78,192,595.44 and spent \$78,196,960.26. This includes, of course, \$13,137,045.97 received from student tuition and fees, hospital and other department receipts; \$1,412,790.67 from intercollegiate athletics; \$12,698,158.03 from such services as dormitories and dining halls, printing, the laundry, University Press, Concerts and Lectures, University Theater, and Health Service, and from the revolving funds; and \$14,227,127.38 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research prizes, scholarships, and the care of the sick, as well as from the Permanent University Fund derived from land set aside by the Federal Government, and the occupational tax on iron ore. Also, \$2,439,375.73 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$78,192,595.44, which the University received for 1957-58, \$34,278,097.66 came from the state.

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Miss Kathryn Simpson, SLA '58, carillonneur. Admission to the December commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

ORGAN RECITAL: From 7:30 to 8:00 p.m., Assistant Professor of Music and University Organist Edward Berryman, M.A., will play:

| | |
|--|-----------|
| "Vom Himmel hoch" - - - - - | Pachelbel |
| "Nun komm' der Heiden Heiland" - - - - - | Bach |
| "In dulci jubilo" - - - - - | Bach |
| Christmas—A Fantasy - - - - - | Dethier |

PROCESSIONAL: Traditional Christmas Music

ON THE STAGE: As candidates for degrees enter the auditorium at 8:00 p.m., the curtain will be opened. Seated on the stage, left to right, are Associate Professor Frederick E. Berger, B.A., General Extension Division, Marshal; Assistant Professor Willard W. Tennyson, Ed.D., Education, Marshal; Dean Theodore C. Blegen, Ph.D., Graduate School; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Dean Harold Macy, Ph.D., Institute of Agriculture; Assistant Dean Russell M. Cooper, Ph.D., College of Science, Literature, and the Arts; Dean Horace T. Morse, Ph.D., General College; Colonel Arthur W. Dern, USAF, Professor of Air Science; Colonel Dean M. Benson, USA, Professor of Military Science and Tactics; Recorder True E. Pettengill, M.A., Admissions and Records; Mr. Max Freedman, Washington Correspondent for *The Manchester Guardian*, Commencement Speaker; President James Lewis Morrill, LL.D., University of Minnesota; The Reverend Dean D. Knudsen, B.D., Adviser to Baptist students and staff members on the Minneapolis Campus of the University; Vice President Malcolm M. Willey, Ph.D., Academic Administration; Dean Edmund G. Williamson, Ph.D., Dean of Students; Colonel Robert O. Bowen, USMC, Professor of Naval Science; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Professor Strathmore R. B. Cooke, Ph.D., Head of the School of Mines and Metallurgy of the Institute of Technology; Dean Walter W. Cook, Ph.D., College of Education; Assistant Dean Henry Mead Cavert, M.D., College of Medical Sciences; Professor Roy A. Schuessler, M.M., Music; Professor Mitchell V. Charnley, M.A., Journalism, Marshal.

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

Order of Events

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

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

INVOCATION: The Reverend Dean D. Knudsen.

SPEAKING FOR THE UNIVERSITY: President James Lewis Morrill.

COMMENCEMENT ADDRESS: Mr. Max Freedman, Washington Correspondent of *The Manchester Guardian*, "America's Leadership of the Free World."

CONFERRING OF ROTC CERTIFICATES: Vice President Willey will introduce Colonel Benson, Colonel Bowen, and Colonel Dern, who will present the candidates for commissions in their respective branches of the Armed Services. The certificates of ROTC completion will be presented by President Morrill.

PRESENTATION OF CANDIDATES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Morrill the candidates for certificates and degrees. They are, in order of their introduction: Dean Morse for the General College; Dean McDiarmid for the College of Science, Literature, and the Arts; Assistant Dean Cooper for the University College; Professor Cooke for the Institute of Technology; Dean Macy for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Cook for the College of Education; Dean Kozelka for the School of Business Administration; Assistant Dean Cavert for the College of Medical Sciences; Dean Blegen for the Graduate School.

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

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

Order of Events

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

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

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: Assistant Professor Berryman.

Symphony V (Toccata) - - - - - Widor

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

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Second Lieutenant, Artillery

Freeborn R. Oldfield, Minneapolis

Second Lieutenant, Infantry

John W. Burr, Jr., Minneapolis
Robert A. Darling, Worthington
Edward C. Krick, Jr., St. Paul
Karl O. Lee, Aberdeen, S.D.

John G. Nelson, Willmar
Robert H. Sigel, Duluth
Gerald E. Thomas, Minneapolis
Rhody P. Tuszka, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Richard L. Olsonoski, Breckenridge

Ensign, CEC, USN

William A. Olson, Minneapolis

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Donald J. Berg, Minneapolis
Richard H. Dorwaldt, Minneapolis
Dean A. Dversdall, Frederic, Wis.

Gregory J. Fyten, Minneapolis
Willard W. Nelson, Minneapolis

Candidates for Graduation

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

GENERAL EXTENSION DIVISION

Engineering Certificate

David Lloyd Antonson, St. Paul

GENERAL COLLEGE

Associate in Arts

| | |
|---|--|
| Craig Russell Anderson, Minneapolis | Edward Duane Dufresne, White Bear Lake |
| Terrell Drew Anderson, St. Paul | Helene Elaine Dunphy, Minneapolis |
| Warren Roy Anderson, Champlin | Loren Leslie Ehnert, Minneapolis |
| Richard Allen Autey, Forest Lake | Carol Jane Ellis, Minneapolis |
| John Edward Bailey, Minneapolis | John Taylor Evans, Minneapolis |
| Robert Allen Ball, Osseo | Gerald Abel Falconer, Minneapolis |
| Sidney Alroy Bechtel, Hutchinson | Raymond Merle Faucher, Minneapolis |
| William Vincent Beckman, Minneapolis | Stephen Alexander Fink, Minneapolis |
| Benjamin Julius Bellamy, Jr., St. Paul | Richard Loren Gailfus, Rolla, N.D. |
| Judyth Babette Bierman, Minneapolis | David Clarence Gildenzopf, Lindstrom |
| Philip Hillman Black, Minneapolis | David Duane Gillham, Minneapolis |
| Neil Boderman, St. Paul | Gordon Floyd Goodrich, Blue Earth |
| Robert Eugene Boland, Algona, Iowa | Alan James Gosiak, St. Paul |
| Andrew John Buksa, Minneapolis | Mitchell Thaddeus Gould, Minneapolis |
| Richard John Cahill, Minneapolis | James Michael Gray, Minneapolis |
| David Paul Carlson, St. Louis Park | Donald James Hamm, Litchfield |
| Douglas James Carney, Minneapolis | Ronald William Hampe, St. Paul |
| Russell Frederick Christianson, Minneapolis | Ellsworth Henry Harpole, Minneapolis |
| Raymond Edwin Chun, St. Paul | Stephen Robert Hegedus, St. Louis Park |
| Jerome Peter Claessen, Minneapolis | Karen Therese Huebscher, Minneapolis |
| Richard Thomas Coughlin, Hollister, Calif. | William Anton Hybsa, Minneapolis |
| William Drummond Cutcliffe, St. Louis Park | James Edward Johnson, Minneapolis |
| Gay Elizabeth Davis, Arlington, Va. | William Joseph Kaiser, St. Paul |
| Diane DeVore, Minneapolis | Donald F. Kasbohm, Minneapolis |
| William Edward Donahue, Minneapolis | William John Keiser, Minneapolis |

Bruce Allen Kinneberg, South St. Paul
 Dennis Allan Kirkeby, Minneapolis
 Jerry Edward Klopp, White Bear Lake
 Robert John Kojctin, Minneapolis
 Joseph Lawrence LaBelle, Minneapolis
 Donald Millard Larson, Minneapolis
 Donald Arthur Lawrence, Minneapolis
 Vinton John Lewis, Forest Lake
 Thomas Nick Limberis, Minneapolis
 Harold Jerome Lindee, Minneapolis
 Thomas James Lynch, Forest Lake
 Dan Byron Lyons, St. Paul
 Carol Lee Malinoff, St. Paul
 Walter Bernard McComas, Brainerd
 John Robert McGaughey, Minneapolis
 Marjorie Eileen Meaney, Mahtomedi
 Roger Dean Monson, Minneapolis
 Jeremiah Francis O'Keefe, Jr., Minneapolis
 Ann Grace Olson, Minneapolis
 Lawrence Walter O'Neill, St. Paul
 Marlin Donald Opperman, Edina
 Ernest Harrison Peacock, Minneapolis
 Robert Samuel Piazza, Minneapolis
 Aloysius Edward Pufahl, Minneapolis
 James John Rantz, St. Paul
 John Clemens Reifenberger, Minneapolis

Jon D. Rieke, Wayzata
 Philip Thomas Roche, Minneapolis
 Robert Bruce Roessel, Minneapolis
 Lanny Edward Ross, St. Paul
 Uldis Janis Rozenbergs, Minneapolis
 Farrell Rudolf, Minneapolis
 Paul Albert Runyon, Minneapolis
 Thomas Ralph Sachs, Minneapolis
 Anita Joyce Schluter, St. Paul
 Keith Arnold Schmalzbauer, St. Paul
 James Barton Sergeant, Rochester
 Maurice Russell Smith, St. Paul
 Douglas Wayne Snyder, Minneapolis
 Curtis James Stengel, Minneapolis
 Jon Hall Straub, Minneapolis
 Richard Knight Strom, Minneapolis
 James Loris Swanson, St. Paul
 James Dean Terry, Minneapolis
 Robert Eugene Thompson, Minneapolis
 Roger Christison Towler, Redwood Falls
 Benjamin Dirk Vincent, Coleraine
 Thomas Louis Wallerus, Minneapolis
 John Wangenstein, New Brighton
 Jon Lee Westlake, Minneapolis
 Wayne Woo, Minneapolis
 Roger Gordon Zurn, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Robert Dean Bell, Minneapolis
 Norman Roy Berg, Robbinsdale
 Lorraine Esther Bergstrand, Minneapolis
 Mary Andrea Berney, Minneapolis
 Joel Samuel Bernick, St. Paul
 Leon F. Carson, Minneapolis
 Joanne Margaret Deal Dobberstein, Wheaton
 William Edward Douglas, Minneapolis
 Judith Karen Kadidlo, Taylors Falls

Karen Gronvall Larson, Minneapolis
 George Daniel McManus, St. Louis Park
 Arnold Thomas Organ, Minneapolis
 Robert Burton Porter, Northome
 Judith Anne Rehder, St. Paul
 Judith Martha Risser, Minneapolis
 George Constance Schwelling, South St. Paul
 Patricia Angell Thomas, Minneapolis
 Carl Francis Wingquist, Ironton

Bachelor of Arts

*Barbara Louise Adam, St. Paul, cum
LAUDE*

*Donald Paul Anderson, Wayzata
Susan Margaret Andrews, Lindstrom
Henry Waldor Aro, Minneapolis
Robert Maurice Battin, Minneapolis
Richard Johnson Bell, St. Paul, cum*

LAUDE

*William Mark Bergen, Albert Lea
Lois Ann Berkenpas, Pipestone
David Earl Beugen, A.A., Minneapolis
George Wesley Bonewell, Pelican
Rapids*

*Richard Joseph Bougetz, Minneapolis
Joyce Ellis Buettner, Austin
John Whitmore Burr, Jr., Minne-
apolis*

*Kathleen Ann Campbell, Oslo
Sheldon Duane Carlson, Faribault
Philip Clarence Cassellius, St. Paul
Robert Eugene Christenson, Minne-
apolis*

*Janet Patricia Cole, A.A., St. Cloud
James Randolph Cote, Minneapolis
Robert Ai Darling, Worthington
Robert Jay Davis, St. Paul
Charmaine Pet Doumel, St. Paul, cum*

LAUDE

*Benjamin Drake IV, Minneapolis
Willis Everhart Elsholtz, Jr., Minne-
apolis*

*Gerald Murray Ferguson, Tracy
Charles Edward Frizol, St. Paul
James Clayton Fuller, Hopkins
Gregory John Fyten, Minneapolis
Grace Anne Garley, St. Paul, cum*

LAUDE

*James Edward Gerald III, Minneapolis
Marie Juanita Germann, Garden City,
CUM LAUDE*

*Earl Goldberg, St. Paul
Roberta Tyson Granger, St. Paul,
MAGNA CUM LAUDE*

*Edwin Feliks Gredzens, Rigas Jurmala,
Latvia*

*Thomas Patrick Greeley, Mahtomedi
Myra Shapira Greenberg, St. Paul
Birgitte Schiotz Grimstad, Copen-
hagen, Denmark*

*Paul Grundland, Minneapolis
Joanne Evelyn Hagen, G.D.H., Stan-
ley, Wis.*

*Jerry Weber Haines, Minneapolis
Richard Elmer Hapke, Minneapolis
William MacDonald Hart, St. Paul
Carroll Theron Hartwell, Minneapolis
Lee George Holden, Lake City
J. Macoubrey Hubbard, St. Paul
Mary Gertrude Husting, Hastings
Duane Jerome Hyland, Austin
Jerome Rodney Jallo, Minneapolis
George Bernhoff Johnson, Minne-
apolis*

*Margaret Anna Johnson, St. Paul
Marilyn Anna Johnson, A.L.A., Min-
neapolis*

*Roger William Jones, Truman
Norbert Paul Kaiser, Bagley
Lawrence Joel Keefe, Minneapolis
John Curtis J. Kilde, Fergus Falls
Robert John Kirkwood, St. Paul
Michael Anthony Klug, South St.*

Paul, CUM LAUDE

*Charles Maynard Kurtti, Red Wing
Herman John Kurvers, Jr., Minne-
apolis*

*Janice Marie Lampi, Duluth
John Edward Langager, Detroit Lakes
Joseph Pihl Lantz, Red Wing
Sandra Mildred Lindblom, Lombard,
Ill.*

*Michael Gary Locke, South St. Paul
Sung Kyu Loh, Seoul, Korea
Richard Andrew Lovlien, Lewiston
Leslie Gervis McDowell, Luverne
Robert Francis Mikkelson, Blue Earth
Theodore Miles, Minneapolis
Warren Cecil Miller, St. James
Jean Lenore Mongeau, Fairmont
Robert Emmett Moore, St. Paul
Phillip LeRoy Musgrove, A.L.A.,
Robbinsdale*

*John Gregor Nelson, Willmar
Richard Alan Nelson, Minneapolis
Thomas Philomen Nelson, Minne-
apolis*

*Ned B. Nichols, St. Paul
Harry William Nissen, Jr., St. Paul*

Suzanne LaDonna Nisun, Coon Rapids
 Kristin Ellen Okerlund, Minneapolis,
 MAGNA CUM LAUDE
 Allan Wallace Okins, Revere
 William Harlow Olson, Minneapolis
 Robert William Pederson, Minneapolis
 John Sether Peterson, Minneapolis
 Carol Jean Rand, East Grand Forks,
 MAGNA CUM LAUDE
 Judith Lynne Reder, Miami Beach,
 Fla., CUM LAUDE
 Donald Nelson Reeves, Minneapolis
 Jack D. Rock, Groton, S.D.
 Carol Greer Rutledge, Waseca
 Thomas Denny Sanford, St. Paul
 Alden Junius Schoess, Minneapolis
 James Barlow Schroeder, Minneapolis
 Dorothy Kay Seymour, Robbinsdale
 John Francis Sheridan, Willmar
 Mary Kathleen Shinnick, Minneapolis
 Sheldon Carl Siewert, Glencoe

James Allen Simpson, Jr., Burbank,
 Calif., MAGNA CUM LAUDE
 George Carnegie Smith, Jr., Los Angeles,
 Calif.
 Lyle William Solie, Minneapolis
 Jon Lloyd Stolte, Minneapolis
 Bodo Fritz Suemnig, A.A., Berlin,
 Germany
 Richard Eugene Thill, St. Paul
 Gerald Everett Thomas, Minneapolis
 Travis Irving Thompson, Minneapolis,
 CUM LAUDE
 Alastair Grant Valentine, West St.
 Paul
 Gordon Stanfield Wade, Minneapolis
 Robert Donald Walker, Hastings
 Michael Duain Ward, Minneapolis
 David James White, Minneapolis
 Thomas Clarence Winter, West St.
 Paul
 William Plass Witt, Minneapolis
 Meyer Leo Wolf, Minneapolis
 LuAn Sabbe Zuhlsdorf, Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

Phillip Warren Grodnick, Minneapolis
 Angela Eleanor Lukken, Aberdeen,
 S.D.

Carolyn Meyer Mohn, Red Wing,
 MAGNA CUM LAUDE

INSTITUTE OF TECHNOLOGY

Bachelor of Science

James Joseph Baltes, North St. Paul,
 WITH HIGH DISTINCTION
 William Conrad Bruncke, Dallas, Tex.
 Wesley Edward Grussendorf, Cosmos

Leonard Bernard Stellpflug, Rochester,
 WITH DISTINCTION
 Roscoe Beryl White, Edina, WITH
 HIGH DISTINCTION

Bachelor of Aeronautical Engineering

Dean Arlen Dversdall, Frederic, Wis.
 Donald Raymond Monson, St. Paul
 Richard David Moroney, White Bear
 Lake

Robert John Mueller, Minneapolis
 William F. Piotraschke, Minneapolis
 Paul Eugene Ryan, Minneapolis

Bachelor of Architecture

Samuel C. Andersen, B.A., Minne-
apolis
Joseph Raymond Blair, Minneapolis
Richard Arthur Brehmer, Rochester

William Alexander Mingenbach, B.A.,
Stevens Point, Wis., WITH HIGH DIS-
TINCTION
Robert Woolsey Peters, Minneapolis

Bachelor of Chemical Engineering

John George Szafranski, Jr., Aurora

Bachelor of Chemistry

Robert John Furbur, North St. Paul
Ronald Louis Plante, St. Paul

Stanley Dencley Steiger, Glenham,
S.D.

Bachelor of Civil Engineering

Haralambos Argyriou Apostolopulos,
Athens, Greece

John Elwin Sandahl, Moose Lake

Bachelor of Electrical Engineering

Alfred John Bates, Eau Galle, Wis.

Vernon Alvin Born, Minneapolis

Bachelor of Mechanical Engineering

Robert Arthur Anderson, Minneapolis
Frederic Wayne Barry, Brainerd
Michael Briski, Nashwauk
Gene Thomas Kulzer, Owatonna
Robert Carl Lindskog, St. Cloud
David Robert Odland, Northfield
Donald Eugene Olness, Milaca

William Arthur Olson, Minneapolis
Harvey Vincent Paulson, Brainerd
Robert Joseph Schulz, Minneapolis
William Lloyd Sumpter, Excelsior
Olgerts Argo Vижums, Minneapolis
Ralph Delton Wiebusch, Lake City
Harry David Zabel, St. Paul

Bachelor of Metallurgy

Gerald Charles Bauer, St. Paul

Bachelor of Mining Engineering

Merlin John Ekman, Alexandria
Robert Louis Hautala, Eveleth

Robert John Langer, Virginia

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

Bachelor of Science

- Henry Lewis Anderson, St. Paul, Forestry
Jack Richard Bagwell, Hutchinson, Agriculture
Margaret Louise Berglund, Minneapolis, Home Economics, WITH DISTINCTION
Erland William Carlson, McIntosh, Agriculture
Blaine Godin Fenstad, Little Marais, Forestry
Jay Edward Hamernick, Minneapolis, Forestry
Mary Ann Gaughan Hart, St. Paul, Home Economics
Katherine Ann Hatfield, Wabasha, Home Economics
Dale Harry Heitkamp, Carver, Agriculture
LeRoy Carol Iverson, Mabel, Agriculture, WITH DISTINCTION
- Marlene Estelle Karstad, Nicollet, Home Economics
William Howe Louk, Austin, Agriculture
Ralph Oliver Olsen, Albert Lea, Agriculture
John Linden Olson, Jr., Worthington, Agriculture, WITH HIGH DISTINCTION
Kenneth Roger Olson, Osseo, Wis., Agriculture
James Allen Roverud, Minneapolis, Agriculture
Jeannette Anah Webster Scheffert, White Bear Lake, Home Economics
Norman George Sixta, St. Paul, Agriculture
Patricia Lee Arnold Steffen, Phoenix, Ariz., Home Economics
Shirley Naomi Ylvisaker, St. Paul, Home Economics

COLLEGE OF EDUCATION

Bachelor of Science

- Joyce Rae Prior Anderson, Minneapolis
Marie Caroline Anderson, Montevideo
Patricia Ann Franks Bartholome, St. Louis Park
Colleen Joy Painter Bartley, Austin
Beverly Jean Beckman, Minneapolis, WITH HIGH DISTINCTION
Mildred Frances Bennett, Hedrick, Iowa*
Irene Berg, Atwater
Beverly Ragnhild Berge, B.S., Mahanomen
Lois Jean Nystrom Biederman, Osseo
- Janice Ann Fields Blattner, A.A., Mooresville, Ind., WITH DISTINCTION*
Carol Ann Hedengran Burgess, B.A., Minneapolis
Edward Ronald Clairmont, Minneapolis
Dean Lewis Coleman, Benson
John Keith Cooper, Minneapolis, WITH DISTINCTION
Elizabeth Gifford Ettesvold, Alexandria
Richard Gale Fawcett, Minneapolis, WITH DISTINCTION

* Nursing Education Curriculum.

Carolyn Jean Buetow Finegan, St. Paul
 James Richard Flis, B.B.A., West St. Paul
 Deborah Marie Forster, Wayzata
 Roland George Fossell, Kennedy
 Barbara Jeanne Cloutier Gallagher, Minneapolis
 Blanche Patricia Garland, Chicago, Ill.
 David Walter Golden, B.S., Spring Valley, Wis.
 Margaret Elizabeth Hansen, Austin
 Mary Ann Hanson, Alexandria
 Beverly Nicolaus Henderson, B.A., St. Paul
 Joyce Janelle Hoover, Saint Jo, Tex.*
 Kathleen Marie Olson Johnson, Duluth, WITH DISTINCTION
 Sandra Suzanna Klimek, Baudette
 Roberta Mary Peterson Klune, Eveleth
 Ilmars Krasts, Minneapolis
 David Leo Krueger, Tomah, Wis.
 Irving Wilbur Larson, Minneapolis
 Sandra Joy Nelson Leclair, St. Paul, WITH HIGH DISTINCTION
 Audrey Jane Lee, St. Paul
 Gerald Elmer Lindsley, West De Pere, Wis.
 Mary Therese Long, Fort Snelling
 Martha Joanne Ludlow, Cook
 Joan Johnson Mann, B.A., Minneapolis
 Patricia Lea Moran, St. Paul Park
 Marilyn Ann Mueller, B.M., South St. Paul, WITH HIGH DISTINCTION
 Mary Ann Floyd Murphy, Minneapolis
 Jacqueline Ann Everson Nelson, Aitkin
 James Foster Nelson, Hopkins
 Jane Bredberg Nelson, Minneapolis, WITH DISTINCTION
 Corine Marguerite Newton Norberg, B.B.A., Hopkins
 Clareen R. Wilson Nyquist, Minneapolis, WITH HIGH DISTINCTION
 Beatte L. Oline, Henning
 Ruth Danielson Paulson, B.A., Hopkins
 Lyle Edwin Rahn, Rosemount
 Ruth E. Stevens Raymond, B.A., Wayzata
 Barbara Elizabeth Reichert, Long Prairie, WITH DISTINCTION
 Carolyn Agnes Robertson, R.N., St. Paul*
 Robert Harold Schmidt, West St. Paul
 Charles Edwin Stark, A.A., Wayzata
 Catherine Lee Nickels Swanson, Minneapolis
 Lena Mary Tague, Upper Darby, Pa., WITH DISTINCTION*
 Wayne Clark Timmerman, Minneapolis
 Tokiaki Toyama, Paia, Maui, Hawaii
 Helen Marie Tunell, Bismarck, N.D.
 Marcene Mercedes Walters, Lake City
 Elizabeth C. Ziaskas Wickens, B.S., Minneapolis
 Jane Ann Williamson, St. Paul

Master of Education

Gerhard David Cohn, B.S., St. Paul
 Edith Gillespie, B.A., Twin Falls, Idaho
 Marian Emmadell Doyle Gruenfelder, B.S., Velve, N.D.
 Carol Ann Lehmann Lindeman, B.S., Racine, Wis.
 Robert Doke Robinson, B.A., B.S., Minneapolis
 Myrtle Mary Webb-Johnson, London, England

* Nursing Education Curriculum.

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

Bachelor of Science

| | |
|---|---|
| Gracia Olson Anderson, Rochester, Home Economics Education | June Annette Mattal, Racine, Wis., Home Economics Education, WITH DISTINCTION |
| Rosemary Kathryn Bolline, Stillwater, Home Economics Education | Eunice Carrie Paulson, Atwater, Home Economics Education |
| Phyllis Eileen Erickson, A.A., Biwa- bik, Home Economics Education | Terence Frederick Stone, Hanska, Ag- ricultural Education |
| Stuart Vern Immer, Jeffers, Agricul- tural Education | Mary Magdalene Stoppelman, Belle Plaine, Home Economics Educa- tion, WITH DISTINCTION |
| Margaret Jean Krech, South St. Paul, Home Economics Education | Dwain Norris Vangsness, Kenyon, Agricultural Education |
| Eloise Joan Kylander, Mora, Home Economics Education | |

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

| | |
|---|--|
| Paul Mike Abbott, Jr., St. Paul | Dale Arnold Johnson, Lake Bronson |
| Gordon Charles Amoth, Duluth | Jay Riley Keiser, Wayzata |
| James Martin Anderson, Minneapolis | Gerald Edward Kepler, Hibbing |
| William Martin Anderson, Northfield | John L. Knaak, Winona |
| Thomas Eli Austin, Owatonna | Yoon Tai Kuark, Seoul, Korea |
| Robert Williams Brant, Minneapolis | Gehart Trygve Larson, Minneapolis |
| Donald Gerald Brostrom, Minneapolis | Roy William Larson, Jr., Minneapolis |
| Gale Everett Brothers, Minneapolis | Karl Olsen Lee, Aberdeen, S.D. |
| John David Carlson, B.A., Detroit Lakes | Michael James Madden, Glendale, Calif. |
| Roger Allen Christianson, A.A., Blooming Prairie, WITH DISTINCTION | Richard Harlow McMillen, B.A., Minneapolis |
| William Franklin Colebank, Minne- apolis, WITH DISTINCTION | Richard Dean McNea, Granada |
| Dennis Dean Countryman, Minne- apolis | Robert Francis Meinecke, Stillwater |
| Roger Andrew Dionisopoulos, St. Paul | Henry Eugene Menzel, Aitkin, WITH DISTINCTION |
| Richard Henry Dorwaldt, Minneapolis | Eugene Louis Minea, St. Paul |
| Guy Eugene Elam, Austin | Richard Andrew Nelles, Minneapolis |
| George Louis Fricker, St. Paul | Willard Wade Nelson, Robbinsdale |
| Jerome William Hall, Lindstrom | William Eugene Nelson, Holmes City |
| Elmer Arnold Hansen, Preston | John Lowell Nielsen, Minneapolis |
| Clifford Roger Hess, Litchfield | Carroll Dean Olson, St. Paul |
| James Anthony Hummel, Minneapolis | William Arthur Olson, Minneapolis |
| Carlton Joseph Johnson, Austin | James Lee Osterhus, B.M.E., Robbins- dale |

Richard Kernan Ottem, Red Wing
Herbert Sherman Schechter, St. Paul,
WITH DISTINCTION
Herbert Richard Sewell, Minneapolis
Gerald David Smith, A.L.A., St. Louis
Park
David Stern Sommers, Edina

James Allen Urness, Fertile
Bernard Joseph VanBockel, Bertha
Dennis L. VanSloun, Excelsior
Thomas Allan Weisbrod, Montevideo
James William Welch, Minneapolis
Elwood John Young, Minneapolis

Bachelor of Science in Economics

Philip Walter Andrzejek, Ivanhoe

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

Bachelor of Agricultural Business Administration

Richard Jerome Kluzak, East Grand
Forks

Arlan Verl Tengwall, Willmar

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing**

Karen Wickland Ramsey, Montevideo

Karen Johnson Somrock, Duluth,
WITH DISTINCTION

Bachelor of Science in Nursing Administration

Adele Edmonds Daly, R.N., Palo Alto,
Calif., WITH DISTINCTION

Alvira Bernice Hiltz, Anoka, WITH
DISTINCTION

Bachelor of Science

Minnadell Berry, LaCrosse, Wis.,
Public Health Nursing
Astrid Chmielarz, Stillwater, Medical
Technology***

Mary Jane Collins, St. Paul, Public
Health Nursing
Joseph Miranda Gacusana, Akron,
Iowa, Medical Technology***

** These degrees are conferred subject to the satisfactory completion of nursing practice prior to March 19, 1959.

*** These degrees are conferred subject to the satisfactory completion of practical work prior to March 19, 1959.

Donna Belle Gorham, Mora, Public Health Nursing

Elaine Ida Helstrom, Hibbing, Medical Technology***

Roman Hiszczynskyj, Livermore, Iowa, Medical Technology***

Jean Anita Huff, Sainte Marie, Ill., Public Health Nursing, WITH DISTINCTION

Gail Charlene Mackey, Ely, Medical Technology, WITH DISTINCTION****

Carol Darlene Nordgaard, Rothsay, Public Health Nursing

William John Pikal, St. Paul, Medical Technology***

Nancy I. Rogers, Minneapolis, Occupational Therapy

Virginia Claire Rollins, Minneapolis, Medical Technology***

Shirley Anna Roningén, Fisher, Public Health Nursing, WITH DISTINCTION

Dorothea Eleanor Winquist, Minneapolis, Public Health Nursing

Master of Public Health

Alfonso Villera Guerrero, C.E., Colombia, South America

Harvey John McPhee, B.S., Minneapolis

Edmund Glenn Wagner, B.S.C.E., Watertown, S.D.

GRADUATE SCHOOL

Master of Arts

Gladys Marie Anderson, Minneapolis
B.E. '34, Western Illinois University. Field of Concentration: Curriculum and Instruction.

Gordon Randolph Antelman, Minneapolis

B.S. in Econ. with high distinction '52, University of Minnesota. Field of Concentration: Statistics.

Tomotane Araki, Yokosuka, Japan

B.A. '52, St. Paul's University at Tokyo. Field of Concentration: Journalism.

Magdalen Antoinette Ardolf, Silver Lake

B.S. '54, St. Cloud State Teachers College. Field of Concentration: Art Education.

Thomas Tomio Arinaga, Lihue, Kauai, Hawaii

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

David Moore Balzer, Mountain Lake

B.A. '51, Antioch College. Field of Concentration: Curriculum and Instruction.

Kenneth Stewart Barklind, St. Paul

B.A. '55, Macalester College. Field of Concentration: Psychology.

Donald George Bauer, Gaylord

B.A. '55, Gustavus Adolphus College. Field of Concentration: Industrial Relations.

Ann LaRue Beck, Duluth

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

*** These degrees are conferred subject to the satisfactory completion of practical work prior to March 19, 1959.

William Leonard Becker, St. Paul
B.S. '50, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

John Lorenzo Belk, Bismarck, N.D.
B.C.E. with distinction '49, B.S. '51, Univer-
sity of Minnesota. Field of Concentration:
Educational Psychology.

Lorna Borman, Denver, Colo.
B.A. '40, University of Omaha. Field of Con-
centration: Spanish.

James Herbert Bos, Glenwood City,
Wis.
B.S. '52, Wisconsin State College at Eau
Claire. Field of Concentration: Educational
Administration.

Grace LaVerne Bosworth, Ada
B.A. '20, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Frank L. Brendemuehl, Minneapolis
B.S. '55, University of Minnesota. Field of
Concentration: Educational Psychology.

Donald Clifford Brodahl, Minneapolis
B.A. '52, St. Olaf College. Field of Concen-
tration: Industrial Relations.

H. Myron Bromley, Meadville, Pa.
B.A. *summa cum laude* '48, Houghton Col-
lege. Major: Anthropology. Minor: Linguistics.
Thesis: The Phonology of Lower Grand Valley
Dani—A Comparative Structural Study of
Skewed Phonemic Patterns.

James Robert Brough, Minneapolis
B.S. with high distinction '53, University of
Minnesota. Field of Concentration: Education.

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

Carneal Edward Chambliss, Jr., Jack-
son, Miss.
B.S. '52, Jackson College for Negro Teachers.
Field of Concentration: Industrial Education.

Edward Miller Clay, Minneapolis
B.A. '54, University of Minnesota. Field of
Concentration: English.

Patrick Wallace Colpitts, Bakersfield,
Calif.
B.S. '53, Wisconsin State College at Eau
Claire. Field of Concentration: Educational
Administration.

Burton Herbert Cooper, St. Paul
B.S. with honor '51, Winona State Teachers
College. Field of Concentration: Curriculum
and Instruction.

John Frederick Cumming, Morris
B.S. '50, Hamline University. Field of Con-
centration: Educational Psychology.

Frederick Irwin Dretske, Waukegan,
Ill.
B.S.E.E. '54, Purdue University. Major: Phi-
losophy. Minor: Mathematics. Thesis: An Ex-
amination of Stephen Toulmin's *The Philoso-
phy of Science*.

Nguyen Thi Dung, Vietnam
B.A. '57, Cardinal Stritch College. Field of
Concentration: History.

Charles David Edwards, Minneapolis
B.A. '57, Harvard College. Field of Concen-
tration: Economics.

Marvin Lee Entner, Minneapolis
B. A. *cum laude* '55, University of Minnesota.
Major: History. Minor: Geography. Thesis:
*The Tsardom, the British Empire, and Persia:
A Study in Economic Imperialism*.

Richard Paul Euchner, Manning, Iowa
B.A. '49, Iowa State Teachers College. Field
of Concentration: Educational Administration.

Edward Allan Fields, Pine River
B.E. '35, Bemidji State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Joan Elizabeth Burden Finlayson, Re-
gina, Saskatchewan, Canada
B.Ed. '50, University of Saskatchewan. Field
of Concentration: Curriculum and Instruction.

Phyllis Ann Flach, Minneapolis
B.S. '52, University of Minnesota. Field of
Concentration: Educational Psychology.

Muriel Cecil Foss, St. Paul
B.S. with high distinction '50, University of
Minnesota. Field of Concentration: Physical
Education.

Charles Wheat Foster, St. Paul

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

Richard Gebhard, Minneapolis

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

David Lyle Giese, Wells

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

Arnold R. Gravem, St. Paul

B.A. '51, Hamline University. Field of Concentration: History.

Robert S. Gruber, Brooklyn, N.Y.

B.S. '54, University of Rhode Island. Field of Concentration: Journalism.

Marcella Selbach Hammer, Minneapolis

B.B.A. '40, B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Theodore Delano Harris, El Paso, Tex.

B.A. '51, University of Denver; M.A. '55, Western Reserve University. Field of Concentration: History.

Evans Tyree Hawkins, Forest, Miss.

B.A. '30, B.S. '51, Alcorn A. and M. College. Field of Concentration: Educational Administration.

Arthur Ludwig Herman, Minneapolis

B.A. '52, University of Minnesota. Major: Philosophy. Minor: History. Thesis: Albert Schweitzer: World and Life Negation in Indian Philosophy.

Eleanor Margaret Herron, St. Paul

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

Robert Leonard Heston, Mason City, Iowa

B.A. *cum laude* '38, Parsons College. Field of Concentration: Curriculum and Instruction.

Paul Gordon Hiebert, Minneapolis

B.A. with highest honors '54, Tabor College. Major: Anthropology. Minor: Public Health. Thesis: A Re-evaluation of the Todas in Their Relations to Tribal and Hindus Cultures of South India.

Jerry Robert Isaacs, Chetek, Wis.

B.S. '52, Wisconsin State College at Eau Claire. Field of Concentration: Curriculum and Instruction.

James Lawrence Jacobson, Duluth

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

Laura Marie Jeffrey, St. Paul

B.A. *cum laude* '35, Macalester College. Field of Concentration: Library Science.

Minerva Ophelia Jenson, St. Paul

B.A. '38, Concordia College. Field of Concentration: Home Economics Education.

David Allen Jerde, St. Cloud

B.S. '55, St. Cloud State Teachers College. Field of Concentration: Physics.

Mary Raugust Jordan, Minneapolis

B.A. *cum laude* '54, Radcliffe College. Field of Concentration: Child Development and Welfare.

Donald Royce Jorgensen, Minneapolis

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

Phyllis Cavanaugh Kent, Midland, Mich.

B.A. '51, College of St. Scholastica. Field of Concentration: Curriculum and Instruction.

Carl Ernest Knutson, Benson

B.S. '47, Bemidji State Teachers College. Field of Concentration: Physical Education.

John Erling Kolstoe, Valley City, N.D.

B.S. '56, State Teachers College at Valley City. Field of Concentration: Psychology.

William Rudolph Lah, Hibbing

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

Katherine Milne LaHue, St. Paul

B.A. '45, University of Pittsburgh. Field of Concentration: Library Science.

Judith Louise Larson, Minneapolis

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

William Francis LeBeau, Ely

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

David Dong Ho Lee, Seoul, Korea
B.A. '55, Chosun Christian College. Field of Concentration: Political Science.

Robert Williams McKewin, St. Paul
B.S. '50, University of Minnesota. Field of Concentration: Educational Psychology.

Robert John Melrose, Menomonie, Wis.
B.S. '50, Wisconsin State College at Eau Claire. Field of Concentration: History.

Philip Ray Mosher, Duluth
B.A. *cum laude* '56, University of Minnesota. Field of Concentration: Curriculum and Instruction.

William Reynold Odean, White Bear Lake
B.A. *cum laude* '50, College of St. Thomas. Field of Concentration: History.

Doris Bertha Pagel, St. Charles
B.S. '50, University of Minnesota. Field of Concentration: Library Science.

Hong Nai Park, Taijon, Korea
B.S. '52, M.S. '55, Seoul National University. Field of Concentration: Statistics.

Keith John Petersen, St. Paul
B.S. in Law '47, LL.B. '48, University of Minnesota. Major: Philosophy. Minor: History. Thesis: The Nature of Systematic Theology According to Gustaf Aulen.

James Robert Peterson, Willmar
B.A. *cum laude* '54, University of Minnesota. Field of Concentration: Psychology.

Stanley Orrin Peterson, Robbinsdale
B.S. '50, Hamline University. Field of Concentration: Curriculum and Instruction.

Neal Wayne Prichard, Minneapolis
B.S. '54, University of Minnesota. Field of Concentration: Industrial Education.

Richard E. Reichow, Minneapolis
B.S. '50, University of Minnesota. Field of Concentration: Industrial Education.

Roland Edward Schleusener, Chicago, Ill.
B.A. '49, Nebraska State Teachers College at Wayne. Field of Concentration: Industrial Education.

Arnold Jerry Sirotiak, Minneapolis
B.A. '52, Augsburg College; B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Donald Melvin Skordahl, Minneapolis
B.A. '51, University of Minnesota. Field of Concentration: Psychology.

Margaret Louise Smith, St. Paul
B.A. '49, Hamline University. Field of Concentration: Library Science.

Li-Ying Song, Taipei, Formosa, China
B.A. '55, National Taiwan University. Field of Concentration: Library Science.

Ronald Richard Stuber, Ashland, Wis.
B.S. '47, Wisconsin State College at River Falls. Field of Concentration: Educational Psychology.

Newton Ngurn Sang Sue, Hilo, Hawaii
B.A. '54, University of Minnesota. Field of Concentration: International Relations.

Richard Wallace Thoreson, St. Cloud
B.A. '54, University of Minnesota. Field of Concentration: Psychology.

John Allen Trentman, Sioux City, Iowa
B.A. *magna cum laude* '56, University of Minnesota. Major: Philosophy. Minor: Greek. Thesis: Kierkegaard's Interpretation of the Socratic Ethical Theory.

Kenneth George Wagner, St. Paul
B.A. '47, Hamline University. Field of Concentration: Educational Administration.

Grace Jacobson Warfield, Minneapolis
B.S. '30, University of Minnesota. Field of Concentration: Educational Psychology.

Kenneth Edwin Wesloh, Princeton
B.S. '54, St. Cloud State Teachers College. Field of Concentration: Educational Administration.

Margaret Emily Whitehill, Knox, Pa.
B.A. *cum laude* '57, University of Minnesota. Field of Concentration: Library Science.

Theron Wayne Whitfield, Chicago, Ill.
B.S. '52, University of Minnesota. Field of Concentration: Industrial Education.

Mary Jeanne Wiesen, Duluth

B.A. '45, College of St. Scholastica. Field of Concentration: Curriculum and Instruction.

Dennis Therres Wilson, Minneapolis

B.A. *cum laude* '56, University of Minnesota. Major: Psychology. Minor: Biostatistics. Thesis: Information Rejection, Perceptual Selectivity, and Frustration as Related to the Evaluation of Ability.

Lewis Harold Workman, Minneapolis

B.B.A. '48, University of Minnesota. Field of Concentration: Economics.

Burton L. Wyss, Minneapolis

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

John William Zwiebel, Owatonna

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

Master of Arts in Public Administration

Richard Emmett Hage, Minneapolis

B.A. '52, College of St. Thomas. Major: Public Administration. Thesis: Administrative Law of Zoning in Minnesota.

James Edgar Voyen, Fergus Falls

B.S.C.E. with honors '53, South Dakota School of Mines and Technology. Field of Concentration: Public Administration.

Master of Business Administration

Donald Franklin Wright, St. Paul

B.M.E. with distinction '57, University of Minnesota. Field of Concentration: Business Administration.

Master of Forestry

James Louis Benson, Wisconsin Rapids, Wis.

B.S. '51, Wisconsin State College at Stevens Point. Field of Concentration: Forestry.

Master of Science

Donald Kay Barnes, St. Paul

B.S. '57, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: The Inheritance of Seed and Flower Color in Flax.

John Humbird Burr, Jr., St. Paul

B.A. '56, University of Minnesota. Major: Geology. Minor: Geophysics. Thesis: Ostracoda of the Dubuque and Maquoketa Formations of Minnesota and Northern Iowa.

Melvin Everett Davison, St. Croix Falls, Wis.

B.S. '56, Wisconsin State College at River Falls. Field of Concentration: Animal Husbandry.

William Richard Dukelow, St. Cloud

B.S. '57, University of Minnesota. Major: Dairy Husbandry. Minor: Physiological Chemistry. Thesis: Effects of Varying Frequencies of Ejaculation on Libido and Semen Characteristics of the Bovine.

Donald P. Franzmeier, Norwood

B.S. '57, University of Minnesota. Major: Soils. Minor: Forestry. Thesis: The Effect of Fertilizers on the Growth and Nitrogen Concentration of Red Pine Seedlings Grown in a Forest Nursery.

Donald Alister Griffiths, Nottingham,
England

B.Sc. '51, University of Wales. Major: Entomology. Minor: Plant Pathology. Thesis: A Study of the Interrelationships between Some Grain Mites in the Families Acaridae and Glycyphagidae and the Storage Molds of Grain.

Robert Wayne Hiller, Granada

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

William Robert Humphrey, Moorhead

B.S. '51, North Dakota Agricultural College. Major: Geology. Minor: Geophysics. Thesis: A Study of the Lithologic Relations of the Early Paleozoic and Cretaceous Rocks in the Mankato, Minnesota Area.

Kathleen Margaret Keenan, St. Paul

B.A. '56, College of St. Catherine. Field of Concentration: Biostatistics.

Carlton Bernard Kittleson, Jr., St. Paul

B.S. *magna cum laude* '56, Hamline University. Field of Concentration: Physics.

John Bernard Kotheimer, Youngstown, Ohio

B.S. '55, Duquesne University. Major: Plant Pathology. Minor: Bacteriology. Thesis: The Microflora of Barley Kernels in Relation to Staining and Discoloration.

William Collier Kuryla, Cuyahoga Falls, Ohio

B.S. '56, Kent State University. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Reactions of Indoles with Tetra-cyanoethylene: A New Synthesis of Carbazoles.

James Joseph Leigh, Minneapolis

B.S. *summa cum laude* '55, College of St. Thomas. Major: Physics. Minor: Mathematics. Thesis: The Total Yield of the $O^{18}(p,n)^{F18}$ Reaction in Three Interesting Ranges of the Proton Energy.

Paul Edward Lofgren, Hallock

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

John Joseph Magnuson, Lake Villa,
Ill.

B.S. with distinction '56, University of Minnesota. Major: Fishery and Wildlife Management. Minor: Statistics. Thesis: Some Phases of the Life History of Troutperch, *Percopsis omiscomaycus* (Walbaum), in Lower Red Lake, Minnesota.

Anthony Demetrios Nicolaou, Athens,
Greece

B.S. '55, University of Athens. Major: Geophysics. Minor: Geology. Thesis: Errors and Approximations in the Seismic Refraction Method.

John Hamilton Ohman, St. Paul

B.S. with distinction '57, University of Minnesota. Major: Plant Pathology. Minor: Forestry. Thesis: Studies on the Pathological Deterioration of Oak Wilt-Killed Red Oaks and Control of the Disease.

Joseph Charles Olson, St. Paul

B.S. in Ch.E. '53, University of North Dakota. Field of Concentration: Agricultural Economics.

Richard Clair O'Rourke, Minneapolis

B.S. '53, College of St. Thomas. Field of Concentration: Botany.

Joseph Gonsalves Ponte, Jr., New
Bedford, Mass.

B.A. '56, Northwestern University. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: Studies on the Behavior of Active Dry Yeast in Breadmaking.

Dolores Altoveros Ramirez, Calamba,
Laguna, Philippines

B.S.A. *magna cum laude* '56, University of the Philippines. Major: Plant Genetics. Minor: Botany. Thesis: Cytogenetic Studies of New Lines with a Ring of Six Chromosomes in Barley.

John Walter Sherbon, Minneapolis

B.S. with honors '55, State College of Washington. Major: Dairy Husbandry. Minor: Agricultural Economics. Thesis: Some Factors in the Marketing Channels Affecting the Keeping Quality of Cottage Cheese.

Frederick William Stehr, Athens,
Ohio

B.S. with high honor '54, Ohio University. Major: Entomology. Minor: Botany. Thesis: A Taxonomic Study of the Genus *Malacosoma* (Lepidoptera, Lasiocampidae) of North America North of Mexico.

Master of Science in Aeronautical Engineering

Kalle Kaups, Minneapolis

B.Aero.E. '54, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Master of Science in Agricultural Engineering

Sung Woo Park, Suwon, Korea

B.S. '42, Gifu University (Japan). Field of Concentration: Agricultural Engineering.

Master of Science in Chemical Engineering

Aivars Kuplis, Chicago, Ill.

B.S. with high honor '57, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: Fluid-Solid Interactions in Fixed Beds.

Singapura Manjanatha, Bhadravati, India

B.Sc. '48, University of Mysore; B.Sc. (Hons.) '53, Andhra University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Correlation Between Frequency Response and Transient Response.

Michel Mezin, Paris, France

Graduate '52, University of Paris. Field of Concentration: Chemical Engineering.

Tom Henry Ohren, Chicago, Ill.

B.S. in Ch.E. '57, Illinois Institute of Technology. Major: Chemical Engineering. Minor: Mathematics. Thesis: Equilibrium Theory in Fixed Bed Adsorption.

Kenneth Ervin Wolf, Elmhurst, Ill.

B.S. '57, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: Longitudinal Diffusion in Tubular Reactors.

Master of Science in Civil Engineering

Ronald Milton Canner, Jr., Minneapolis

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

Torkild Johan Carstens, Vadso, Norway

Sivilingenior '55, Norges Tekn. Høgskole (Norway). Major: Civil Engineering (Hydraulics). Minor: Civil Engineering (Soils Mechanics). Thesis: The Hydraulic Jump in a Horizontal Flume with Obstructions.

Juan Julio Luchsinger, Caracas, Venezuela

C.E. '53, Universidad de Los Andes (Venezuela). Field of Concentration: Civil Engineering.

Duane Marlo Zwiers, Cambridge

B.C.E. '57, University of Minnesota. Field of Concentration: Civil Engineering.

Master of Science in Dermatology

Troy Gaylord Rollins, Rochester

B.S. '45, M.D. '48, University of Minnesota. Major: Dermatology. Minor: Pathology. Thesis: Necrobiosis Lipoidica Diabeticorum and Necrobiosis Lipoidica Granulomatosis.

Herman Joseph Schultz, Houston, Tex.

M.D. '52, University of Texas. Major: Dermatology. Minor: Histopathology. Thesis: A Study of Changes in Blood Histamine, Absolute Eosinophil Count, and Absolute Basophil Count in Various Skin Diseases.

Master of Science in Electrical Engineering

Phillip Donald Blais, Remer

B.E.E. '53, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Stability of Photomultipliers.

Donald Arthur Campbell, Minneapolis

B.S. with distinction '55, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Titanium and Magnesium as Reducing Agents in Oxide Coated Cathodes.

Master of Science in Mechanical Engineering

Shmuel Adler, Tel-Aviv, Israel

B.S. in M.E. '55, University of Texas. Field of Concentration: Mechanical Engineering.

Han Liu, China

B.S. '48, Ordnance Engineering College (China). Field of Concentration: Mechanical Engineering.

Lemoine Leonard Johnson, Albert Lea

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

Jerome LeRoy Novotny, White Bear Lake

B.S. with distinction '56, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Theoretical and Experimental Investigation of the Transport Properties of Carbon Dioxide and Carbon Dioxide-Air Mixtures.

Bradford Wesley Libbey, Grand Rapids

B.S. '56, University of Minnesota. Major: Mechanical Engineering. Minor: Metallurgy. Thesis: Evaluation Measurements of Hydraulic Bumper on Test Vehicle.

Master of Science in Medicine

Barry Decker, Rochester

B.A. '48, Columbia University; M.D. '52, New York University. Major: Medicine. Minor: Physiology. Thesis: Proteins, Glycoproteins and Hyaluronic Acid in the Rheumatic Diseases.

Raymond Lavern Newnum, Urbana, Ill.

B.S. '48, M.D. '51, Indiana University. Major: Medicine. Minor: Physiology. Thesis: A Comparison of the Rates of Water, Sodium and Potassium Absorption from Neutral and Acid Contents in the Duodenum and Ileum of the Dog.

Robert Scott Fontana, Rochester

B.S. '45, St. Lawrence University; M.D. '49, St. Louis University. Major: Medicine. Minor: Pathology. Thesis: A Clinical and Pathologic Study of Congenital Cardiac Disease at the Mayo Clinic (1920-1954).

Altan Onat, Istanbul, Turkey

B.S. '48, Robert College; M. D. '54, University of Zurich. Major: Medicine. Minor: Hematology. Thesis: Malignant Lymphoma and Chronic Lymphocytic Leukemia: A Correlative Study Between Electrophoretic Serum Protein Alterations and Bone Marrow Findings.

William Louis Hedrick, Rochester

B.S. '51, M.D. '54, University of Minnesota. Major: Medicine. Minor: Hematology. Thesis: Thrombocythemia—A Study of the Morphologic and Clinical Characteristics in 21 cases.

Patrick Adair Ragen, Townsend, Mont.

B.S. '48, Carroll College; M.D. '52, University of Chicago. Major: Medicine. Minor: Hematology. Thesis: The Anemia of Chronic Renal Disease: Studies of Red Cell Destruction Utilizing Radiochromium and of Red Cell Production Utilizing Radio-Iron.

Robert Arthur Kyle, Bottineau, N.D.

B.S. '48, University of North Dakota; M.D. '52, Northwestern University. Major: Medicine. Minor: Hematology. Thesis: Acquired Hemolytic Anemia Associated with Chronic Lymphatic Leukemia and the Lymphomas—A Clinical Study with Special Emphasis on the Morphology of the Peripheral Blood Smears and Bone Marrows.

Cynthia Ann Stoltze, Santa Barbara,
Calif.

B.A. '49, Stanford University; M.D. '54,
Northwestern University. Major: Medicine.
Minor: Hematology. Thesis: Systemic Mani-
festations Associated with Keratoconjunctivitis
Sicca and Sjogren's Syndrome, Including a
Study of Hematologic and Protein Abnormali-
ties with Examination of the Bone Marrows in
22 Cases.

Anthony Paul Vastola, Jr., Waterbury,
Conn.

B.A. '49, Wesleyan University; M.D. '53,
Boston University. Major: Medicine. Minor:
Pathology. Thesis: Electrocardiographic
Changes in Fatal Pulmonary Embolism: A
Clinical-Pathologic Study.

Master of Science in Neurology

Edward Verhines Spudis, Washing-
ton, D.C.

B.S. '49, M.D. '53, University of Maryland.
Major: Neurology. Minor: Physiology. Thesis:
Clinical and Electrical Responses to Slow
Pulse Stimulation of Depth Electrodes in the
Brains of Cats.

Master of Science in Neurosurgery

Henry Enrico Storino, Seattle, Wash.

B.S. '49, State College of Washington; M.D.
'53, Creighton University. Major: Neurological
Surgery. Minor: Neuropathology. Thesis: The
Role of the Neurohypophysis in the Produc-
tion of the Interphase of Diabetes Insipidus.

Master of Science in Obstetrics and Gynecology

Herbert K. Beutler, Bern, Switzer-
land

M.D. '53, University of Bern. Major: Obstet-
rics and Gynecology. Minor: Surgical Pathol-
ogy. Thesis: A Study of Precancerous Lesions
of the Endometrium.

Master of Science in Pathology

Thor Magnus Thorgersen, Mayville,
Wis.

B.S. '49, M.D. '53, Marquette University.
Major: Pathology. Minor: Clinical Pathology.
Thesis: Coronary Atherosclerosis in Males
With and Without Duodenal Ulcer.

Master of Science in Proctology

Robert J. Spencer, Chicago, Ill.

B.S. '49, M.D. '53, Loyola University. Major:
Proctology. Minor: Surgical Pathology. Thesis:
Anemia in Chronic Ulcerative Colitis: Evalu-
ation by Means of Radioactive Elements.

Master of Science in Radiology

Charles William Vickers, Rochester

B.A. '40, M.D. '44, University of Kansas. Major: Radiology. Minor: Surgical Pathology. Thesis: A Correlation of the Surgical, Physiologic and Roentgenologic Findings in Operable Malformations of the Heart and Great Vessels.

Mark Henry Wholey, Charleston, W. Va.

B.S. '49, University of Pittsburgh; M.D. '53, Hahnemann Medical College. Major: Radiology. Minor: Surgical Pathology. Thesis: Disseminated Indeterminate Pulmonary Disease; Value of Lung Biopsy.

Master of Science in Surgery

Robert Benedict Edelmann, Short Hills, N.J.

M.D. '47, University of New York. Major: Surgery. Minor: Surgical Pathology. Thesis: Adenomatous Polyps of the Stomach.

Dennis Curran Higgins, Spokane, Wash.

B.S. '49, University of Notre Dame; M.D. '53, Loyola University. Major: Surgery. Minor: Pathology. Thesis: Intrapapillary Tumors of the Duodenum.

Certificate of Specialist in Education (School Administration)

Warren Bennett Franzen, Chicago, Ill.

B.A. '50, Wheaton College; M.A. '51, University of Minnesota. Field of Concentration: Educational Administration.

Doctor of Philosophy

Diane Ramsey Albitz, Falls Church, Va.

B.A. *cum laude* '50, M.A. '54, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: A Discriminant Analysis of the Aptitudes and Interests of Enlisted Men in Eleven Naval Aviation Groups. Major Adviser: Prof. K. E. Clark.

Stephen Hunt Archer, St. Paul

B.A. *cum laude* '49, M.A. '53, University of Minnesota. Major: Business Administration. Minor: Political Science. Thesis: An Empirical Test of Guides to the Selection of Industrial Common Stocks for Institutions. Major Adviser: Prof. B. B. Sutton.

Bruce Edward Balow, Wabasha

B.S. '52, M.A. '54, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: An Investigation of the Relationships Between Reading Ability and Learning of Non-Reading Tasks of Varying Complexity. Major Adviser: Prof. G. L. Bond.

Willard H. Beattie, Glen Ellyn, Ill.

B.A. '51, M.S. '54, University of Chicago. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Light Scattering by Silver Bromide Sols. Major Adviser: Prof. E. J. Meehan.

Philip Andrew Benson, Minneapolis

B.A. '51, Augustana College at Rock Island; Diplôme '53, University of Paris. Major: Speech. Minor: French. Thesis: The Dramaturgy of Jean Anouilh. Major Advisers: Profs. F. M. Whiting and Marthe Blinoff.

Rolland Laws Blake, Minneapolis

B. Geol. E. '50, M.S. '51, University of Minnesota. Major: Geology. Minor: Metallurgical Engineering. Thesis: A Study of Iron Silicate Minerals in Iron-Formations of the Lake Superior Region, with Emphasis on the Cuyuna District, Minnesota. Major Adviser: Prof. J. W. Gruner.

John Paterson Brantner, Minneapolis
B.A. magna cum laude '49, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: Homeless Men, A Psychological Survey. Major Adviser: Prof. William Schofield.

Frederick Gramm Brown, Madison,
Wis.

B.A. '54, M.A. '55, University of Wisconsin. Major: Psychology. Minor: Educational Psychology. Thesis: Measured Personality Characteristics of Liberal Arts College Freshmen. Major Adviser: Prof. W. L. Layton.

Alexander Bryan Caldwell, Jr., Minneapolis

B.A. magna cum laude '51, M.A. '55, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: Personality Impressions and Response Prediction. Major Adviser: Prof. S. R. Hathaway.

Sheau-Wu Chen, Kiangsu, China

B.S. '48, National University of Chekiang; M.S. '56, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Inelastic Scattering of 40 MEV Protons from Various Elements. Major Adviser: Prof. N. M. Hintz.

Jong Wan Choi, Seoul, Korea

B.S. in C.E. '50, Seoul National University; M.S. in C.E. '57, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Stress Study of a Steel Framed Dome. Major Adviser: Prof. Paul Andersen.

Ivo Giovanni Dalla Lana, Trail,
British Columbia, Canada

B.A.Sc. '48, University of British Columbia; M.Sc. '53, University of Alberta. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: The Hydrogen Reduction of Ferric Oxide Powder in a Tubular Reactor. Major Adviser: Prof. N. R. Amundson.

Jan Duker, Chester, Okla.

B.S. with high distinction '51, M.S. '53, Oklahoma A. and M. College. Major: Psychology. Minor: Psychiatry. Thesis: The Utility of the MMPI Atlas in the Derivation of Personality Descriptions. Major Adviser: Prof. William Schofield.

Prasanta Kumar Dutta, Balasone,
India

B.Sc. (Hons.) '52, University of Delhi; M.Sc. '54, Banaras Hindu University. Major: Agricultural Botany. Minor: Botany. Thesis: The Effects of Previous Crops on Growth, Yield and Certain Chemical Constituents of Two Soybean Varieties. Major Advisers: Profs. Thor Kommedahl and M. B. Moore.

Danuta Ehrlich, New York, N.Y.

B.A. '53, Queens College; M.A. '57, University of Minnesota. Major: Psychology. Minor: Statistics. Thesis: Determinants of Verbal Commonality and Influencibility. Major Adviser: Prof. Stanley Schachter.

Mark Stanley Fawcett, Winona

B.S. '54, Northwestern University. Major: Organic Chemistry. Minor: Chemistry. Thesis: The Reactions of 1,2,4-Triphenyl-2,4-Cyclopentadiene and Some of Its Derivatives. Major Adviser: Prof. C. F. Koelsch.

Gordon Hans Flammer, Logan, Utah

B.S. '52, M.S. '53, Utah State Agricultural College. Major: Civil Engineering. Minor: Mathematics. Thesis: The Use of Ultrasonics in the Measurement of Suspended Sediment Size Distribution and Concentration. Major Adviser: Prof. L. G. Straub.

Frank Edward Friedl, Minneapolis

B.A. '52, University of Minnesota. Major: Zoology. Minor: Agricultural Biochemistry. Thesis: Studies on the *in vitro* Survival of Larval Stages of the Trematode, *Fascioloides magna*, with Analyses of the Hemolymph and Tissue Culture of a Snail Host, *Lymnaea stagnalis*. Major Adviser: Prof. F. G. Wallace.

Charles Gale, Wooster, Ohio

D.V.M. with honor '52, Michigan State College; M.P.H. '55, University of Minnesota. Major: Veterinary Bacteriology. Minor: Public Health. Thesis: Characteristics of an Ornithosis Virus Strain of Low Virulence. Major Adviser: Prof. B. S. Pomeroy.

Arthur James Gallese, Jr., Lautana,
Fla.

B.A. with high honors '52, American International College. Major: Psychology. Minor: Psychiatry. Thesis: Personality Characteristics and Academic Achievement in School of Engineering Students. Major Adviser: Prof. William Schofield.

Carl William Glewwe, St. Paul

B.E.E. with high distinction '50, M.S. in E.E. '55, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Effects of Temperature Transients in Oxide Coated Cathodes. Major Adviser: Prof. W. G. Shepherd.

Gerald Jay Goldberg, New York, N.Y.

B.S. '52, Purdue University; M.A. '55, New York University. Major: English. Minor: Art. Thesis: The Artist as Hero in British Fiction, 1890 to 1930. Major Adviser: Prof. W. V. O'Connor.

Stephen Graves Granger, St. Cloud

B.A. *cum laude* '53, M.A. '55, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Prestige Hierarchy Among Occupations in Psychology. Major Advisers: Profs. H. P. Longstaff and D. G. Paterson.

James Ronald Novotny Gundersen,
Los Angeles, Calif.

B.S. '49, University of Wisconsin; M.A. '55, University of California at Los Angeles. Major: Geology. Minor: Metallurgical Engineering. Thesis: The Stratigraphy and Mineralogy of the Metamorphosed Biwabik Iron Formation, Eastern Mesabi District, Minnesota. Major Advisers: Profs. G. M. Schwartz and J. W. Gruner.

John Paul Hansen, Swatara

B.S. with distinction '54, M.S. '55, University of Minnesota. Major: Metallurgical Engineering. Minor: Chemical Engineering. Thesis: The Reduction of Hematite to Magnetite by Carbon Monoxide. Major Adviser: Prof. T. L. Joseph.

Dorothy Delilah Hayes, Jamestown,
N.D.

B.A. '24, Oberlin College; M.A. '40, University of Minnesota. Major: Social Work. Minor: Political Science. Thesis: Predicting the 1953 Social Adjustment of 63 Males and Females Known to the Juvenile Court as Incurrable in 1941-1942: A Problem in Prediction. Major Adviser: Prof. E. D. Monachesi.

Harry Danner Henderson, Platteville,
Wis.

B.S. '47, M.S. '49, Iowa State College. Major: Education. Minor: Agricultural Engineering. Thesis: Spatial Requirements for a Farm Mechanics Laboratory. Major Advisers: Profs. M. J. Peterson and H. W. Kitts.

Paul Ezra Herbold, Bellingham, Wash.

B.A. '51, Western Washington College of Education; M.A. '53, University of Washington. Major: Speech. Minor: Journalism. Thesis: The Effects of Present Audience Reactions on Remote Audiences in Political Persuasion. Major Adviser: Prof. W. S. Howell.

Joe Hogan, Minneapolis

B.A. '43, B.S. '53, M.A. '55, University of Minnesota. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: Configural Analysis of MMPI Scores with Special Reference to Student Teachers in Nursing Education. Major Adviser: Prof. W. E. Dugan.

John Edward Jackson, Minneapolis

B.S. in Chem. '46, State University of Iowa. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Preparation and Properties of Some Synthetic Glycerides. Major Adviser: Prof. W. O. Lundberg.

Arthur Myron Jensen, Minneapolis

B.S. '28, M.A. '34, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: An Experimental Evaluation of Two Different Programs of Teaching Health in the Sixth Grade and the Administrative Implications Involved. Major Advisers: Profs. O. E. Domian and P. O. Johnson.

Walter Orwell Jewell, St. Paul

B.A. '39, William Jewell College; M.A. '40, University of Denver. Major: Psychology. Minor: Educational Psychology. Thesis: Differential Judgments of Manifest Anxiety, Defensiveness, and Effective Problem Solving in Counseling. Major Adviser: Prof. R. F. Berdie.

Elvet Glyn Jones, Victoria, British
Columbia, Canada

B.A. '46, M.A. '49, University of British Columbia. Major: Educational Psychology. Minor: Psychology. Thesis: An Analytical Study of the Relationship Between the Expression of Familial Conflict and the Presence of Potential Counseling Problems in Male Adolescents. Major Adviser: Prof. C. G. Wrenn.

Rigoberto Juarez-Paz, Zacapa, Guatemala

B.S. '50, Indiana University; M.A. '55, University of Minnesota. Major: Philosophy. Minor: Spanish. Thesis: Studies in Twentieth Century Spanish Philosophy. Major Adviser: Prof. W. S. Sellars.

John Omar Kangas, Kettle River

B.A. *magna cum laude* '53, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: Some Aspects of Verbal Stimulus Generalization in Hospitalized Schizophrenics. Major Adviser: Prof. W. A. Russell.

Zvi Karchi, Haifa, Israel

B.S. '53, M.S. '54, University of California. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Study on the Resistance in Alfalfa to Common Leaf Spot and on the Relation of Infection Rating to Plant Color. Major Adviser: Prof. W. M. Myers.

Socker Lee, Seoul, Korea

B.S. '52, M.S. '54, Seoul National University; M.S. in M.E. '56, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Optimization of Servomechanisms Having Velocity Saturation. Major Adviser: Prof. Katsuhiko Ogata.

Elmo Everett Miller, Minneapolis

B.A. *magna cum laude* '52, M.A. '55, University of Minnesota. Major: Psychology. Minors: Biostatistics and Educational Psychology. Thesis: Transfer Effects of Special Training Upon Pre-Solo Flight Training. Major Adviser: Prof. Kenneth MacCorquodale.

David Ross Moir, Fargo, N.D.

B.Sc. (Hons.) '40, M.Sc. '42, University of Manitoba. Major: Botany. Minors: Geology and Zoology. Thesis: A Floristic Survey of the Severn River Drainage Basin of Northwestern Ontario. Major Adviser: Prof. G. B. Ownbey.

Robert Franklin Motter, Early, Iowa

B.S. *magna cum laude* '55, Morningside College. Major: Organic Chemistry. Minor: Chemistry. Thesis: The Reaction of Vinyl Sulfides and Alkyl Sulfides with Butyllithium. Major Adviser: Prof. W. E. Parham.

Allan Norman Myhr, Saskatoon, Saskatchewan, Canada

B.S.A. with distinction '49, University of Saskatchewan; M.S. '52, University of Minnesota. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: The Effect of Environmental Factors on Thermal Resistance of Micrococci and Associated Organisms in Milk. Major Adviser: Prof. J. C. Olson, Jr.

Walter Leland Nelson, Fosston

B.A. *magna cum laude* '48, M.S. '50, University of Minnesota. Major: Physiological Chemistry. Minor: Pharmacology. Thesis: The Effect of Diisopropylfluorophosphate Administration on the Phosphorus Metabolism of Mouse Brain. Major Adviser: Prof. C. P. Barnum.

Gareth Raymond Olson, Richfield

B.S. with distinction '48, M.Ed. '49, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: A Study of Predictive Efficiency of Selected Mental and Motor Measures and Success in Athletics. Major Advisers: Profs. L. F. Keller and R. J. Keller.

James H. Osborn, Winona

B.S. with high distinction '54, University of Minnesota. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Addition of Hydrogen Bromide to Dinitriles and the Identification of Lagidze's Hydrocarbon. Major Adviser: Prof. S. W. Fenton.

Eldor Alvin Paul, Edmonton, Alberta, Canada

B.Sc.A. with distinction '54, M.Sc. '56, University of Alberta. Major: Soils. Minor: Bacteriology. Thesis: The Extraction and Quantitative Estimation of Free Amino Acids in Soils. Major Adviser: Prof. E. L. Schmidt.

Laurie Clarence Pearson, Rexburg, Idaho

B.S. '52, Utah State Agricultural College; M.S. '52, University of Utah. Major: Plant Genetics. Minor: Botany. Thesis: Predicting the Performance of Synthetic Varieties of Alfalfa From Single Cross Data. Major Adviser: Prof. W. M. Myers.

Wesley Andrew Pearson, Red Wing

B.A. *summa cum laude* '54, St. Olaf College. Major: Organic Chemistry. Minor: Chemistry. Thesis: Oxidation of Conjugated Diolefins. Major Adviser: Prof. S. W. Fenton.

Livia Pellegrini, Florence, Italy

Graduate '48, University of Florence; M.S. '55, University of Minnesota. Major: Animal Husbandry. Minor: Veterinary Physiology. Thesis: A Study of Vitamin E Deficiency in Pigs Fed a Torula Yeast Diet. Major Adviser: Prof. L. E. Hanson.

Eugene James Putzer, San Diego, Calif.

B.A. '51, M.A. '54, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: A Method for Investigation of the Properties of Solutions of the Equation $x'' + f(x,t)x' + g(x,t) = \phi(t)$. Major Adviser: Prof. W. S. Loud.

Calvin King Quayle, Logan, Utah

B.S. '50, M.S. '54, Utah State Agricultural College. Major: Speech and Theater Arts. Minor: English. Thesis: Humor in Tragedy. Major Advisers: Profs. F. M. Whiting and J. D. Hurrell.

Terence Thomas Quirke, Jr., Urbana, Ill.

B.S. '51, University of Illinois. M.S. '53, University of Minnesota. Major: Geology. Minor: Metallurgical Engineering. Thesis: Mineralogy and Stratigraphy of the Temiscamie Iron-Formation, Lake Albanel Iron Range, Mistassini Territory, Quebec, Canada. Major Adviser: Prof. J. W. Gruner.

Thomas John Roberts, St. Paul

B.A. '48, M.A. '52, University of Minnesota. Major: English. Minor: Art. Thesis: The Reputation of Arnold Bennett Over a Half Century. Major Adviser: Prof. W. V. O'Connor.

Eleanor Louise Robinson, State College, Pa.

B.A. with honors '38, M.S. '40, Pennsylvania State College. Major: Child Welfare. Minor: Psychology. Thesis: The Form and the Imaginative Content of Children's Block Buildings. Major Adviser: Prof. D. B. Harris.

Owen Helwig Sauerlender, State College, Pa.

B.S. '46, M.S. '47, Iowa State College. Major: Economics. Minor: Statistics. Thesis: Level of Aspiration and Classical Utility Analysis. Major Adviser: Prof. Leonid Hurwicz.

Walter Donald Schultze, Philadelphia, Pa.

B.A. '48, University of Pennsylvania; M.S. '51, University of Wisconsin. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: An Investigation of Psychrophilic Bacteria. I. The Nature and Distribution of Psychrophilic Bacteria in Commercially Pasteurized Dairy Products; II. Studies of the Influence of Growth and Reaction Temperature on the Metabolism of a Typical Psychrophile. Major Adviser: Prof. J. C. Olson, Jr.

Robert Charles Schwantes, New Brighton

B.E.E. with distinction '49, M.S. in E.E. '55, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of Flicker Noise in Multi-Electrode Vacuum Tubes. Major Adviser: Prof. Aldert van der Ziel.

Evalyn Finn Segal, Pittsburgh, Pa.

B.A. '50, University of Chicago; B. A. magna cum laude '53, University of Minnesota. Major: Psychology. Minors: Zoology and Physiology. Thesis: The Relations Among Operant Rate, Final Extinction Rate and Drive. Major Adviser: Prof. Kenneth MacCorquodale.

Katsunori Shimada, Tokyo, Japan

B.S. '45, Tokyo Imperial University; M.S. in E.E. '54, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Impedance and Noise Measurements of Various Gas Discharge Devices. Major Adviser: Prof. Aldert van der Ziel.

Sister Mary Edmund Lincoln, St. Paul

B.S. '46, B.A. '50, College of St. Catherine; M.A. '55, University of Minnesota. Major: American Studies. Thesis: Cultural Significance of the Minneapolis Public Library in Its Origins and Development: A Study in the Relations of the Public Library and American Society. Major Adviser: Prof. M. C. Turpie.

Dean Seyward Smith, Lethbridge, Alberta, Canada

B.Sc. '37, University of Manitoba; M.S. '48, University of Minnesota. Major: Entomology. Minor: Agricultural Biochemistry. Thesis: The Utilization of Food Plants by the Grasshopper, *Melanoplus mexicanus mexicanus* (Sauss.). Major Adviser: Prof. A. C. Hodson.

Gayatri Prasad Tewari, Chainpur, India

B.Sc.Ag. '51, Agra University; M.S. '54, University of Minnesota. Major: Agronomy. Minor: Soils. Thesis: The Production and Botanical Composition of Legume-Grass Combinations and the Influence of the Legume on the Associated Grasses. Major Adviser: Prof. A. R. Schmid.

Robert Mapes Thomson, Fairfield, Conn.

B.A. '42, Grinnell College; M.A. '48, University of Minnesota. Major: Psychology. Minor: Business Administration. Thesis: Effects of Time-Set on Work Output. Major Advisers: Profs. D. G. Paterson and M. A. Tinker.

Yung-Su Tsai, Taiwan, Formosa,
China

B.S. '54, National Taiwan University; M.S. '56, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Proton Proton Scattering From 28 to 68 MEV at 90 Degrees in the Center of Mass System. Major Adviser: Prof. L. H. Johnston.

Jesse Huggett Van Wyk, Rustenburg,
Union of South Africa

B.S. '52, M.S. '55, University of Stellenbosch. Major: Entomology. Minor: Plant Pathology. Thesis: A Study of Relationships Between the Confused Flour Beetle (*Tribolium confusum* Duval) and Associated Microorganisms in Flour and Wheat. Major Adviser: Prof. A. C. Hodson.

Garry Richard Walz, Minneapolis

B.A. cum laude '49, M.A. '50, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: An Investigation of the Relationship of Counseling to Student Outcomes in a How To Study Course. Major Advisers: Profs. W. E. Dugan and C. G. Wrenn.

Ellsworth Stanley Woesthoff, St.
Cloud

B.S. '42, St. Cloud State Teachers College; M.Mus. '47, Northwestern University; M.A. '54, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Specific Reading Proficiencies of Pupils Having Normal and Accelerated Reading Growth. Major Adviser: Prof. G. L. Bond.

Leon Shelby Wood, Warren, Ohio

B.S. '49, Kent State University; M.S. '51, Ohio State University. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Genetic Variation of *Heiminthosporium sativum* in Relation to Seedling Blight of Small Grains. Major Adviser: Prof. J. J. Christensen.

Hideyasu Steve Yanai, Minneapolis

B.S. '53, California State Polytechnic College. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: The Structure of Pseudo-Conhydrine. Major Adviser: Prof. W. N. Lipscomb.

Bernard Edward Youngquist, Crookston

B.S. '40, M.A. '50, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Critical Study and Analysis of the University of Minnesota Schools of Agriculture. Major Advisers: Profs. C. P. Archer and M. J. Peterson.

Academic Costume

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

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

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

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

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

(In the order of march)

| | |
|--|--------------------|
| General Extension Division | orange and drab |
| General College | crimson and white |
| College of Science, Literature, and the Arts | white |
| University College | old gold and white |
| Institute of Technology | orange |

| | |
|--|------------|
| College of Agriculture, Forestry, and Home Economics | maize |
| College of Education | light blue |
| School of Business Administration | drab |
| College of Medical Sciences | green |
| Graduate School | black |

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



UNIVERSITY OF MINNESOTA

Senior Reception

December 1958

- The members of the Senior Class, their relatives, and friends are invited by President and Mrs. James Lewis Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held in the main ballroom of the Coffman Memorial Union.
- Those in the receiving line will be President and Mrs. Morrill, Mr. Wayne W. Anderson, President, All-University Congress, and Mr. Richard L. Erickson, President, Coffman Union Board of Governors.
- Christmas carols will be sung by the Men's Glee Club Ensemble, directed by Assistant Professor of Music Norman Abelson.
- Assisting in the Reception are members of the Union Board of Governors and its committees, and of the following honorary societies: Chimes, Grey Friars, Iron Wedge, Mortar Board, Phoenix, and Silver Spur.
- All guests are urged to register at the appropriate tables. The signed pages will be bound and preserved by the class of 1958.
- Punch will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.